

I T~ HMNGDGNUDGTI MMP~
! NGVO XG

TVG

J WU\ VKL~ \ UGH

O CI [CT VWFQO f P[QUCMCF! O IC

DWFCRGUV. 3; 64

GM P[XGV

CXKU CV; TVOCI [CTQMPCM

CLfPNQO

GN U ~ 0

C Oci {ct Vwfqo^ap{qu Cncf²o k o gi vku vgn o gi d^la u^ad>n
¶tvo g o wpm^ak co gn{pgm o^at c e^lo g ku j cpi u^an{q| qwcp lgrg| pk
n^lx^aplc. j qi { pgo ²rgvtcl/qv^a n^lq^wco ³u| g. j cpgo Mrgdgndgti
²rgw x²v rt>d^anco t³klf ³u| ghqi rci^audcp kuo gtvgpk⁰ C u| » xcn>fk
²tvgm²dgp xgw j^lp{vcrp ²rgvtcl/qv Mrgdgndgti t n o c ¶pk o^at
eucm c²tv ugo rgi gv o gtv o wpm^av³tuck ²u o wpm^au^ai^apcm i^apeu/
xgv k gmgpu²i gk ²u dct^ack o²i l>t²u| v ²rgm u c xgrg gi {Aw u| gtrn m
lgrp²vngp{ t²u| g o²i o kpfki c| gu xqpcncp m^af0 U go ²n{k vnkpwg/
dgp vj^av o²i j^lp{km c hgn²vgn^a u| Am²i gu v³xqr^ai0 Uqm jkgru
fqmw gpwo. co k ²rgv hqn^au^av ku o gi xkfi^a¶j cv^a. gi {gn tg o²i c
j qo^an{dcp rrr cpi. xci { c| kf n³gn²i²p²n hqi xc pgo rppg cii^an/
p²m^an hgn cu^an cw>0 i { ²rgv^an^ai^apcm gi {gu o q| cpcck n³p{xdgp
^anri^adcp eucm cpp{kdc p{gtvgm o gi xkfi^a¶v uv. co gpp{kdp o ci {c/
t^a||^am ²u nkdqvcnq| cv^am ²rgw x²v< c o ci {ct nwn^atc ²t²vngkpm
Vtkcpq w³p xcn> o gi o gp²u²v ²u i {ctcr³u^av0 G| gn u| go dgp o ci c
c| ²rgw o^at gnd^llc. u v gi {gpggp n^lx^aplc c v³v²pgk o gi xkfi^a/
i³u0 V^l ²x c o qucpk tqj cp> gugo²p{gm o gmgw pci {qp ku j quu^a A
kf rgi gv# U ²rrgp c| gro Aw v^l ²x c Dgv rgpô Mrgdgndgti/mqt/
u| cnqv. o kv v³v²pgk u| cnv v. cpp{k c rgi^atv. j qi { v³ti {kci qucp
o^at dk qp{qu v³v²pgk v³xv>n ku dgu²ij gv^apn0 M^av³u³gp ²tx²p{gu
g| c o gi^amcr³u c o xgn f²ur qn³ck t²u| tg0 Gdd n c hgn^au^aqo/
d>n n³gvng| km j qi { o c ku ²n u| gtrn m pgx²v c u| ³kgi dgp eucm
pci {qp tkn³p go rgi gvgo = cpp^an kpm^add u|>j q| lwvcqo c v³ti {k
hqt^auqnev. h rgi Mrgdgndgti hqi cm c| x^ap{ckv. ekmgk. co gn{gngv
uqu| qt u| »ncvqmo gi gtgf gkhqto^alvndcp0

G| gp c rqpvp n^av³u³gp pci { j^an³tc n³grg| gw it>h Mrgdgndgti
Mwp>p². cnk c rgi pci {qdd n³u| u²i i gn ²u h³tcf^ai qv pgo kuo gt
u| ¶xgu²i i gn tgpf gmg²ugo tg dqu^avqc c| v c tgpf n^lx^ark i c| fci
cp{ci qv. co k j quu^a A ²xgm hqn{co^ap ³u| gi { n< n³l³cvqnev rxxgr/
ngv hrgi gi ||²u³ngv. Au³n³x^ai^auqncv0 H rgi c| gffki kuo gtvggp
n³l³cvqu lgi {gvgn tgpf n^lx^ark v³o gi g ²u c| ²rgw nkdqvcnq|^au^av

nî4 xgvv̄p̄ñ o gi xkî i ƒ» lmgî g xqrv u^a o qo tc pci { ²u gi {dgp ¾xgp/ fgv̄u o gi ngr gv²u0 C r̄xgr̄ngv̄ xku|qpv o^at eucm pci {qp nku t²u|dgp ²u eucm pci { »xcv̄u^ai i cn jcu|p^aij cwco 0 Gppgm qn̄v v̄cî p pgo n̄gm d xgddgp o gi xkî i ƒcpqo 0 C n̄gi h̄qpv̄qucdd h̄qt^auv u^a o qo tc M̄rgd̄n̄ud̄gti n̄kcf̄cv̄p l̄gi { |gv̄k ²u n̄kcf̄qw o w̄n̄k̄ d̄gu²fgk ek̄mgk ¾4x²p { l̄xc̄urev̄l̄p̄cm k̄pf̄q̄n̄ī uck l̄gr̄gp̄v̄w²n̄0 G|gn̄v̄ c̄np^a|w̄o nk v̄to ²u|gv̄u|gt̄ n̄gi c n̄gi v̄n̄l̄gugddgp0 C nî4 xgv̄w h̄qt^auq̄nev o^at eucm t̄gp̄f̄n̄k̄Ark pci { u^a o w̄p^an̄ h̄q̄i xc ku uq̄m̄en n̄kugdd o²t²v̄ndgp jcu|/ p^aij cwco h̄n̄0 V̄cî p h̄n̄v̄ p̄j̄gv̄m̄ j̄q̄i { c r̄ct̄rēo gp̄k h̄n̄u j^a|k ²u ucl̄w̄d̄gr̄k v̄o cf^auq̄m̄ r̄gti v̄i²dgp f̄q̄i q| » M̄rgd̄n̄ud̄gti gn̄gp k^ap {w̄» i c|f̄ci. pci {qp ku i c|f̄ci l̄p̄xgm̄k̄c/cp {ci qv̄ c̄n̄i ²tl̄p̄v̄o 0 G v̄n̄k̄p̄v̄v̄ dgp M̄rgd̄n̄ud̄gti r²if^al^atc j̄k̄c̄v̄u|j̄cv̄o. c̄nk c n̄gi t̄k̄n̄ī dd̄ gugv̄dgp x^anc̄u|q̄v̄ u|go ²n̄gungf̄ v̄o cf^auq̄m̄c0 M̄ñ̄p̄dgp ku g v̄o cf^auq̄m̄ ²tf̄gn̄u²i²v̄ c| c̄m̄q̄tk̄ r̄k̄nc̄p̄v̄{k r̄q̄rk̄n̄ek̄ x̄q̄p̄cv̄u|^auq̄m̄ d̄k̄v̄q̄u²/ v̄q̄w^anc̄ c p̄cr̄k r̄q̄rk̄n̄ek̄ |co cv̄ c| »v̄ o^at gr̄^atq̄i q̄w c ¾d̄dk̄ o gi o^at c̄m̄q̄t ugo xqrv ²tf̄gn̄u. co k̄n̄q̄t o²i h̄t̄kuu xq̄n̄# Gi {²dn̄̄pv̄ v̄cî p o w̄n̄ī o ucl^av̄u l̄mgî g. e²m̄k̄v̄|²ug nî4 gv̄u|v̄dgp ku r̄g n̄gn̄gw o qp/ f̄cpqo ²r̄r̄gp̄ gppgm c| cp {ci p̄cm̄ pci {q̄dd o²t²v̄m̄ h̄n̄j̄cu|p^añ̄u^at »nc̄ co k̄p̄v̄ c nî4 {x e²o g ku gñ̄t̄w̄lc. ²p̄ M̄rgd̄n̄ud̄gti dgp c| c̄m̄q̄v̄» ô c| u|cx^axc̄nc̄ c èr̄q|k̄k̄ī ô o ci {ct m̄v̄v̄r̄q̄rk̄n̄w̄v̄ nî4^ap̄v̄co dg/ o w̄cv̄p̄k̄ gn̄u uq̄td̄cp c|q̄n̄p̄cm̄ c x̄kuu|cv̄tv̄ o ci {ctq̄n̄p̄cm̄ c̄n̄k̄ñ̄ o xg/ n̄f²uo gpv̄ o w̄n̄ī v̄ nî4 xgv̄v̄p̄ nî4 gr̄l̄ n̄ pgo h̄i {gr̄j̄gv̄m̄ o gi u c̄n̄k̄p̄gm̄ ^an̄c̄f̄d̄cp c v̄t̄cp̄q̄k̄ q̄tu^ai m̄ñ̄f̄gr̄o gk̄ n̄ eucm gr̄o qūv̄» nîr̄ ãn̄ r̄j̄gv̄0 C| j^añ̄l̄w̄nev̄ ku d̄k̄v̄q̄u²cp̄k̄ u|gt̄gv̄²o c̄pp̄cm̄ c M̄rgd̄n̄ud̄gti p̄gm̄ go/ ñ̄ñ̄x̄gn̄ u|go dgp. c̄nk̄ t̄k̄n̄ī p̄ d̄gu²ij̄gv̄w̄ t̄»n̄m̄ fg o k̄p̄f̄k̄ī t^al̄w̄n̄ i qp/ f̄q̄m̄ ²tv̄ñ̄m̄ f̄q̄i q|q̄w u c̄m̄q̄t ku M̄q̄u|ux^at. M̄ñ̄uuc. O c̄t̄q̄ux^añ̄t̄j̄gn̄(00) r̄gd̄gi v̄gm̄ n̄gm̄k̄ u|go gk̄ gn̄w̄ co k̄n̄q̄t c o ci {ct C̄ñ̄ñ̄f̄ r̄w̄u|v̄u^ai^av̄ nî4^ap̄v̄c̄ dgp²r̄gu²gp̄k̄ k̄uq̄ñ̄m̄en̄ go d̄gt̄gm̄gn̄ o x̄gm̄²i i gn̄ l̄»ñ̄v̄ v̄gn̄ o cl̄f̄cp̄ q̄tu^ai q̄v̄x̄kuu|cu|gt| o ci {ct gt̄ x̄gn̄(00)

Dw̄f̄er̄ guv̄ 3; 64 l̄p̄k̄w̄u|j̄cx^ad̄cp0

J w̄u|v̄k̄L>|ugl0

Mrgdgnudgti mÁrf gv²ug< c vlcpcpk nqtul cmlcp c o ci {ct mwnÁtc ²tv²ngkv
 nngnw o gi o gpvpg ²u i {ctcr ¶kpc0 ô Mg|fgwn hqi xc ³u| v³p³ugg g mÁrf gv²u
 dg³/²t²tg n³u| Árk0 ô / Uªto c|ªuc. eucn³fk n³ÁÁr0 ²p{gl0 ô U ¶po ci {ct n³/4/
 p{gl|gdgp p w hgn ³pwwcvqu. dÁu|ng o ci {ctª0 ô Knnqck vcpwªp{ck0 ô
 J kxcvck rªn³clw³t³v c o lplul vgtgp³m³i gp ng|f10 ô Tgpfn³Árk ul qti cm c.
 lf tcf j cvwcp ³pnr³|²ug. lgi ||gvk qrcuoªp{qm wc|ªuqñ0 ô Dgjcw³cp
 hqi rcmq| km c pgo|gvk²i k n³tf²uugñ0 ô Dgjn³p Kvxªp ²u Mrgdgnudgti rªt/
 j w|co qu v³gmx²ugk c ZZ0 u|0 gñ ²xv³gf²dgp0 ô Pgo|gvk²i r qrkknck xgl²t/
 n³p{x nk³qñi q|ªt³pcm vgtxg0 ô V³Áv³pgm k vcpwªªp{qm c pgo|gvk²i k n³t/
 f²utg xqpcvñq|»ñi0 ô C p{grkj cv³tenek» nk³qñi q|ªuc< h³Áf tghqto /i qpf qrv=
 c o ci {ct p²r u t u³i go gn³ug= c xgi {gu p{grkj cv³tqm rtdqñªoªlc= c p{grk/
 ul k³gvngp. u|ªxªp{qñp ²u c vkuvc pgo|gvk²i k vtÁrgvngp n³Ágv³p gñªtªu0
 ô C Dem³p/jªdqª vcpwªªi ck ²u c pgo|gvk²i k n³tf²u0 ô Pgo|gvk²i k rtdqñ³/
 oªm c Hgnk³²mgn nereuqñvdc0 ô C Lwk³p/gi {guÁgv gn³p ¶³uc0 ô Mrgdgn/
 dgti f³pv lrgpv u³i ul tgrg c| gi {guÁgv o wñlª dcp ²u pci {gtgf o²p{gk/
 pgm dk³vq³ªt³dcp0 ô C fwpck jclªup²r mwnwªrku i qpf q|ªuc0 ô C p²r lgu
 kqfcmqo ²u c| kf gi gpdp ²n o ci {ctªi ulªoªtc nk³cpf» pcr³tem ko c/
 n³p{xgm wñ0 n³tf²ug0 ô C Lwk³p/gi {guÁgv ic|fªi k v³x²ngp{t³i g0 ô C
 xgl gv n³r|²u c mÁr³Árk o ci {ctªi ulªoªtc0 ô C o qj co gfªp dqup{ªnqm
 o ci {ctqtuªi k p³xngv²ug0 ô C dqul plek nevqñm³uq ulªoªtc o ci {ct ul go/
 rqpvd»n o gi hngn rcrªi dk³vq³ªt³uc0 ô Cn³ple dgnereuqñuc c o ci {ct
 mwnÁ/n³Ádg0 ô Mrgdgnudgti c n³Áki c| cv³uk d¶ªt³i pªn< èci icuvªpqm n³Á²
 lwqwoi0 ô f mco vñit ngul c xcn³u/ ²u n³Áqmc³uÁi k o lplul v³tkwo dcp0 ô
 C ucvku|vknck jkxcvck xqñv o wpnv³tucm»n n³n³qñw èo n³Á²uk dk³qp{¶v
 xªp{qm0

Mrgdgnudgti mÁrf gv²ugu go dgt xqñ< h³Áf Ápntg mÁrf gv³w. j qi {
 ngi o²n³gdd grugw³i Ápndgp c o ci {ct mwnÁtc ²tv²nglpgm o gi /
 o gpv²t²xgn ²u vqªddk i {ctcr ¶³ªt³xcn pgo|gk dnuqtuwpmmen ul go /
 dgpk gñulªp³p hgnxi {g c jcteq0 | ngv²pgm x²i u ²tv²m ²v g hgnrf cv
 j u³i gu vñlgu³²ug cf lc0 C mwnwul o lplul v³tkwo ²r³p gn³/²v n³Á gn
 gi {²xv³gf vñlgu³²o²p{glj gl n³r guv o kpf c|. co k gl v o gi gn | v.
 dªto kn³gp hqpvupcm dk³qp{wn ku. eucm gn n³u| Árgv u o kpf c|. co k w³pc
 n³Ágvng| gw ô c| c ngi {gv³pªn t³Ák³f kf ô eucm gr kn³i wu0 C o ci {ct
 o xgn f²u v³Áv³pgv²dg gl c ¶³ ²x Á. j cvcm cu hgl gl gv³ ¶³v dg C n³Ágv/
 ng| ndgp wrcf qpñ³r r gp gl v c hgl gl gv³v rt»dªmo xª| qñk0 Fgªv

hji » r kncpv³uv ngm xgv²Am c| gn|o²p{gntg ku< c ngi³i cdd²tvrgo /
dgp xgw vpw²xgntg⁰ T²u|ngvndg pgo o gjgv²Am eucm c pci {
²rgvo hgf² xg| gv ³4x²p{gngv rt>d³rlwm x²i ki n³4gvpl⁰ G| gm c|
³4x²p{gm o kpf wi {cpcjjq| c e²tj q| xg| gvpgn< c m²Av²u dg/
³4x²u²j g| 0

Mrgdngdgti ^amcpf »cp vpw² qnxcuq² lgi { | gvgngv i { l³4v.
gm²mgf gw⁰ M²u ddk gpek²mqr²fknw w²u²v c tgpckuucpeg/go dgtgntg
go r²ng| vgv n²r²a| cvqu uq²nqf c²A²i²v o²t hxcv²xgkdp o gi /
cixr q| v u n²u dd c ngi pgj g| gdd pcr k o w²nc n²4 dgp ku^amcpf »cp
htkuugp vctvqc² u i {ctcr²q²wc⁰ Gi { km ek²m²dgp c| ²rgv cp {ci k lcxck
xcn² u c i c| fcu²ik² t²x²p {gu²A²u hgn²vrgkxgn hji ncm² | xc n²hglk
j qi { c| go dgtk²rgv o^auqf km hgf²dgp c l> o>f qv xci { ngi c²if dd c
vku vgu dk vq²q²w²rgv²gv u²i gv eucm c| tgo²tj gk cnk c| ²rgv gnu
hgf²dgp o gi hgu²q²w gt xgn x²i gl v² c u²o^atc tgp²g²nv vgtog² n o w²n²u⁰
J c k²evckdcp. j^avco ctefv lgi { | gvgkdp ner q| wpm c ²v²gv² t²x²p {gu/
pgm v²rlwm Mrgdngdgti u| gmgo k hgn f²u²tg xqpcv²u² »rci ku⁰ Vcpw².
i { l³4v j qi { n²u dd o kpf ki c d x²d k o gt²q² guug⁰ Uqnev cmq²qv.
fg c uqm n²4 An ku gi { km ngi ulngt²Angdd cmq²v²uc ³po ci c. c ucl²v u| g/
o²n²ku²i²pgm n²kt²o^a n²uc. co gn²pgm ³4n²rgv²u²p o gi hgu²q²w gt /
xgn d^ao w²vqu ³phgi { g²ngl²u²gn fqi q| qw gnu ³po ci^atc gu²o²r²u²/
v n wq²u² » ngj gmg²ki q²Uj c pgo² t| gw h²tc²u²i qv pgo n²4^apv r²kj gp²uv
cmq²t. j c vgw²g. xci { ngi c²if dd xc²ro k n²u dd g²uf²ngu n²4 j cu| p²A
vg²x²ngp {u²i gn n²u² q²u²tg p {q²v cm²o c⁰ Eucm q² { o ci {ct^a | j c²u²
c| c r²rf^a vcp o²tg²v u| qti c²qo. co gn² nqtc k²A²i² »n j c²if²ki
c²ki kuo gtvu² Avgv⁰

Mrgdngdgti 3: 970 pqxgo dgt j » 450^ap u| Avgvw c| C²cf x^at
o gi {²dgp hgnx Oci {ctr²eun²p⁰ Cv²lc vj wo dwi k i t>h Mrgdngdgti
Icned eu⁰ ²u n²kt⁰ jvu^atner k²p { . cp {lc hgn g tk² u cn²g tk Hctn²p
Ctcpnc xqn⁰ C n²v p²xgv c| gn p²xgmg² gi { Av pgo o kpf gp e²n
| cvqu^a i p²m²An j gn²g| vgo gi { o^au o gn²< Mrgdngdgti o ci { ct
qu² v^am u²4v n u^ato c| qw u lgn²i | gvu p²o gv p²x²v c| w²ddk²m²n
ner v⁰ M²u ddk r^an²chw²u²dcp g| c p²x pgo o kpf ki n²4pp { q²vgw
o gi j gn² | g²v⁰ U²n u²i gu r²q²kn²ek n²4³ndgp Mrgdngdgti pgo eucm
c²tv xq²v p²r u| gt vgp. ogtv r²o c o ci c en²4²r wcu² r²q²kn²ek^a n²u /
rqp²v^a p pgo xq²v j clncp² » A²cedd xgtgv u| go rqp²qm hi { g²ng² dg/
x²v²gf²xgn o>f qu²cpk jcpgo o^at c p²xg ku u| k²vg r²txq²n²nc c n²4i /
o ci {ctqnev⁰ Ekmgm lgnp²v²m o gi c n²tf²ut r⁰ Gi { p²xvrgp²An nk /
p {qo cvw r²x²n v²ddgm n²4³4v j cpi u²q| v. j qi { egi { rgt²eki ugo
xqpc. u| cdcf o gi v t²pk Oci {ctqtu^a i m²w²u| o k²ku² v²tk u²n²dgp
qn²cp go dgtv. cnkv Mrgdngdgti pgm j²q²pcn⁰ G| eucm c| v ki c| q²ic c

mãtãf gn w. jqi { c o ci {ctqm kf gi ppgm p²mãn pgo wf pcm dqñ
 f qi wpl0 O gi x^af qm^a m c | cn jqi { o nãf²ug ëj ¶^axcn xcp o kpf gp
 pgo | gk xqp^aupcn0 C x^af cñv u | ngdd/u |²ngudd nãdgp hqñ vqpucp
 kuo²vni gw²nκ kf gi gp c pngx. kf gi gp c |²t |²ug ku= co kv²r ¶^v u cmuv.
 cddep plpeu. xci { ngx²u c pgo | gk vctvño = o^at cddep ku xcp
 xcno k kf gi gpu | gt . o ci {ct go dgt u |^ao^atc dgxgj gvgvpp. c o ci {ct
 vgo rgtco gpwo u |^ao^atc grkugj gvgvpp. jqi { gn^am xcrcnk u pgo
 u | plm o gi j kf gvpk u v jctup^a | pk jqi { c mww^atc hgi {xgtgkgn
 cnetlc xkuu | cu | gt | pk c | qtu |^ai qv0 G | gm²u j cuqpn» lgngi . o²i fwt/
 x^addcp o gi hqi cm c | qw x^af cm pgo gi {u | gt c p {kx^apqu^ai gi²
 o g²u | ngf vgn0 Mrgdgnudgti u | qñ uc gmp²tg nãp {vgrp xqrv vãdk
 ¶ dgp x^arcu | qpk c | kñgñ²ng v²o cf^auqmc0 Gdd n ku rñ w | km o gpp {kg
 rñ p {gi gupgm rñ wc gl v c rqpqv0 Gi { cmño o cn²rrgp c | gi {km
 P {w | cv O ci {ctqtu |^ai gnu | cn ¶^v uc gngp vñcnq | » i { rñ ugp o gi /
 lgi {gl v. jqi { ëgtgkdp xcno k qu | x^am x²t ku hqñ km0 M²u dd o gi /
 vñ mc c | v c hqto wñ v u gl²rrgp p^anc pgo xqrv ãgu u | ». co gn | u | gtpv
 Ac kf gi gp jcp |^auÀ pngxv xkgn o ci {ctpcm u | cdcf xcno k dgp
 ãñp³d³plg c vãdk o ci {ctvñ gl c mãñp²du²i eucm cddep^anj cv.
 jqi { c u | gp xgf j c |^av j c rñ gv. o²i lqddcp u | gt gug` Gi {²dn²pv
 gi {hqto^ap dAu | ng xqrv ô vñgu lqi cn ô o ci {ct²u qu | v^am ugk g0
 U o kgn mãñp³ugp c | w»ddlcñv c p {kx^apqu^ai gn w ku i {cm /
 tcp go rñi gw. ²tf go gu rñu | eucñ f l^av nãd grddt n u | go ã | {tg
 xgpp ãpn0

Gi {km ãu^ai p {kx^avq | cv Mrgdgnudgti u |^al^adc cflc c | v c |^an ¶^v uv.
 jqi { eucñ f l^adcp³v i gpgt^aekp ngtgu | vñ c | cuu | qp {qm o ci {ctqm
 xqncn0 Kv eucm hñ rñg²t²v²ut n rñ gv u | » c Mrgdgnudgti c | v o qp f j cwc ô
 gl hrgn o gi c | ki c | u^ai pcm ô jqi { ugk vãd i gpgt^aekp ngtgu | vñ
 pgo p²o gv p xgn nãñ³vgn j^a | cuu^ai qv0 C | cuu | qp {qm nãñ³v xqrv
 htcpek. qruu | u | rñ x. u v um^v u |^ato c |^auÀ C | gnu o ci {ct u |^ato c |^auÀ
 Mrgdgnudgti p² c | qp dcp Mwp» i t » hcp {lc xqn0

O ci c eucñ f vñqk gtgf v < uk hñ u | ng Vj wo dwi x^atc. co gn |
 o²i o c ku^an0 C | gnu . p²x u | gtpv kuo gtv Mrgdgnudgti gv o²i
 X0 M²tqñ eu^a |^at go gng 3752/dcp pgo guk tci tc0 O^at gl c | gm lrgu
 Mrgdgnudgti. cnkpgm gi {²dn²pv N²p^atf xqrv c ngtgu | vngx. c vãñ³mgn
 u | go dgp vcp ãñ^aqw xk² | u²i²tv nrcv c nk ãpv²u0 C vãñ³m gngpk
 xk² | ngf²u nñ u dd ku pci { u | gtgr gv l^aw | qw c eucñ f vãñ²pv²dgp²u
 go gm²f²u²dgp0

C nãñgvng | hqpvcudd u | go²n | c eucñ f d » n c ZXK0 u |^a | cf
 o^auq | km hñ²dgp v plm hñ c | gl Witkm L³pqu. cnk 38850 cwi w | wu 80^ap
 tgu | vxgw c r^atni p {k ãññ³gdgp u cnk n0 Nkr » v 388; 0 pqxgo dgt 470²p

ngiv qmngxgf dgp c v434mgn ul go dgp R^atnf p{p^an 2u | tugmAx^atp^an
 vcp^au^aq^aw xk²| o ci cvct^au^a2tv d^at>k t^acpitc go gm0 Gppgm gi {km
 hc c uqnu|qt go ngi gvgw Hgtpe Okm>u. cnk Dwfcx^at dgx²vgr²p²n
 ul gtr gw u cnkx xk²|k 2tf go gk lwcm^avn wi {cpeucm r0 Nkr>v 3924/
 dgp it>hk t^acpitc go gm0 Gppgm gi {gpgu rgu^ato c|qwc Mwp> it>h ku0
 C| 3/4ul gu h²thkrgu^ato c|qwc gi {2dn²pv gi {v rgi {ki nevq^am
 xqncm c uqtd>n gn ul 3/4 wrclfqpn²rrgp Mwp> ^am nk0 Gtt n c| u²t n
 Mrgdgnudgti v4dd ¶ dgp o gi go r²ng|gw. cmcm kci ô c ul>pqnk
 dgu²f jgx²dgp ô p²ok tqo cpv^anu ul ¶pg²uug^a ë|u pg x^afqlcpcm
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 p²o gv p²xgo xcp= Dwfc xku|chqi rcf ucnqt c v434m rmpk nA/
 fggo dgp o²n² ugddgn gi {Aw ner v c it>h^ai qv gi {km u²o = c|v
 jku|go vj^av. lqi qo xcp c x²tngtgu|u²i hqn²v ppgno ku gjjg| c
 h²afj 3/4 0 C o²n² ugdt n vnf p c eucrfk jci {qo^ap{ wfqw= c| qm²
 o^ap{qm pgo go n²kn0 C| gi {km n²r xlu^agn x^aru|v^auk nqtvgu|p>v.
 co gn|pgm ul 3/4gi g²u²dgp Mrgdgnudgti n²u²i vgrgp^an^a tvcvcp xqiv
 wf^apk x²rk jqi { c it>h^ai qv i Dwfcx^atp^an ul^a vct hgl²t) ô U|gtg|vg
 c Mrgdgnudgti x²t0 C r²p{gi ki c|< Mrgdgnudgti gi {gpgu^aik uerlc
 v²p{rgi c Dwfc xku|cx²vgr²p²n ku vcp^au^aq^aw xk²|u²i²²tv ner v c
 it>hk t^acpitc q0

| tfnggu. jqi { Hgtpe Okm>u 3/4eug. Okm>u Cridtv 3955/dcp
 ul kp²p c v434mgn ul go dgp vcp^au^aq^aw xk²|u²i²²tv. wi {cpeucm it>hk
 t^acpitc p{gtv0 Gppgm c| ^ai pcm rgu^ato c|qwc n²4 An xcn> c Mrgdgn/
 dgti v n i {cntcp go ngi gvgw Hgtpe L>|ugh U|gt^ah it>h ë²p| Ai {/
 o lpu|vti. cncr²l^adcp x²xg c| wfxc²tk nco ctc gp²4ng. cnkpgm o quvj c
 ng^ap{c. Witng xqp Ngxgv^aqy xqiv cpcm kfgl²p c| ci icu^ap I qgvj g
 wqn> ul gtm g0 G| c Hgtpe it>h jkcvrk^an^au^ad>n nkhn>»rci v²ti {cnv
 U²ej gp{k^aku^a ppcnku c fwpcki |jcl>|^au Ai {2dgp0

C| cp{ck u²4n pgo xqncm gpp{kg tci {qi>m fg c|2tv Mrgdgnudgti
 gi {h²to^ap dAu|ng xqiv g|gmtg ku0 Pci { ul g²gvwgn 2tg|jgv dAu|ng/
 u²i i gn go ngi gvg cp{ck pci {cr²v. Hctneu K²t²v0 Hgrgi {g|vg. dk qp{q/
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 nk^an²p gn euctpqn²dcp 2u² r²vgv x²i²ki o lpv o gi cpp{k q^am^ano qv
 go ngi gvg c j|c d²4eu²pgm grglvgw ul cxck0 Jcuqpn> >gvwgn 2g
 dAu|ng u²i i gn dgu²n cp{l^at>n cnk ëc euq^arvqu. ul ¶pi c|fci fwp^apv^ark
 o ci {ct p{gixgv dgu²ng i {3/4p{3/4 u²i gup0 C hc o²i jqu|A 2x/
 v²gf gm w²p ku xku|cgo r²ng|gw nkhl|g|. ul qnevcpvn vnf n> lgn kg0
 Gi {o^aujq| xcn> nercuq^awm c ngi i {gpi²fgdd xqno C 42 2x n²4Ark
 Mrgdgnudgti ngxgrkdgp |fgucp{l^av tgpfgup ë|fgu l> Cpi {cmo i

pcm ul »f|dc u ngmg rgi o Àr nq{cdd j cpi wrcvk ku c rgi vrlgugdd o gi /
 2 t v utg ul a o f|dc dk cmqo o cn v tlc hngn wg0

C| crc hlcncrp o gi jcn< Mrgdgudgti o a ur f xgu nqt a dcp
 a txcu a itc lwwq0 U 2 nguhj 2 tx a tv rvggr gf gw cp{lc 2 u pci{cr lc.
 o clf gppgm j cr f r w p gi {km pci {d a eukc *cp{lc p x 2 t 2 pgm l f tlg +
 pgxgn 2 n0 P g xgn cr l a j q| o kpf x 2 i ki c rgi dgp u 2 i guggd u l g t g v g n
 tci cu nqf qw< n 2 u dd ku. co knqt o a t o ci cu a n i u qndc go gm g f gw.
 rgi dk cm cu dd i qpf qrcvk ku ul k p v p hgn a tvc gn wg0 U fpo ci {ct
 n 2 p {gl gvdgp p w hgn< qwj qp a dcp c p 2 o gv p {grkd n cpp {kv ncr qw.
 o kpv c rgi v 4 d A0 p0 l> pgxgr udgp t 2 u l gu An n 2 4 2 r qul v n dgrk o ci {ct
 kl A0 C f w a p v Ark o ci {ct p {grkv 2 rvg x 2 i 2 ki rvc i cf j c v c p u l 2 ngu/
 hgi 2 tx a tk |co cwn dgu l 2 n 2. co k 2 tf gngugp ul p gl v g ct v n w f ek l v
 cmnqt ku. j c k f gi gp p {grkv u l »rcivo gi 0

C eku vtelgm pgxgr ug c l w p dggv | v g c n 2 p {gl gv o w n i l a v0
 Hlcnc nqt a dcp ô o kpv c rgi v 4 d o ci {ct f k m ô ku pgi {xgp/
 p {qrcu 2 t 2 u 0 C ë l qw gt j c n gi d g p p g ku h r d k k i a n c c h a i g v g p u i k
 2 t | 2 u 0 Co knqt Dgrkdgp f k m n 2 p p {gu. k k i { u l go o gn p | k c | gi {gvo
 o gm g w c ë J g n f k k U k i g u n t c p | F j c p i l c k o g m g w c h t u 2 i j g l h g n /
 x q p w » i a t f c g l t g f A p p r i r u 2 v 0 ë O k n g p o a u 2 t | 2 u h j i l c g n c o c i {ct
 v 4 o gi gv c ë l qw gt j c n gi f c n c o a t c # U l g t v p 2 o . j c p a n w p m ku o gi /
 r p p p g c l 3 u l g h q t t q w a i . f g A i { . j q i { c j c v c n q o r g i { g p o c i {ct #
 X c n d c p k i c | c x q n p 2 o g v d c t a v a p c m D g e n g t r q t q u l m n w w u l o k p u l v t /
 p g n a 0 0 g t y c t c d g t g k p W p i c t f w e j w p f f w e j # M r g d g u d g t i
 c r r l a d c p x 2 x g F w p c v l k go d g t x q n g t u o c i {ct v A u A n c r i 0 H c k
 u l go r q p d » n gi { 2 d n 2 p v c f k p a t k t c u l gi {k m v r k n w n 2 r x k u g n l g 0
 X 2 t u l g t k p v ku ô o c i {ct c p {l c t 2 x 2 p ô r g i c r f d d c p p {k c o c i {ct.
 o k p v v 4 | u 3 n 2 u g k p m l > t u l g 0 C | k p f k i g p c . c n k p g m u l f p o c i {ct c p {l c
 x q n u c n k p g m u g k p 2 n c | c p {a m t 2 x 2 p c p 2 o g v x 2 t o a t c p p {k c h g n /
 j f i w w . j q i { u l a | c r f n e t a p {a v e u c m p c i {q p v 4 r g u l a o o c n r g j g v g
 n k h g l p k n g l f g w n h j i x c p g o ku w f v c x q p c o c i a v o a u p c m 2 t g l p k
 o k p v o c i {ct p c n 0 U w p c ô j c r g j v ô o 2 i o c i {ct c d d r g w c l /
 a n c n j q i { c p g o | g v 2 r g v t q d r o a k d c v r l g u g p . o q u v o a t o k p f g p
 u l a | c r f n q i u r g j v u 2 i g p 2 m A n h r g i c o c i {ct v 4 v p g n o g p n g t g u l v A n
 d g r g 2 n g o c i a v 0 C v 4 v p g r g o v c p w n a p {q l a u c 3 p w f c v q u c p d A u l n g
 o c i {ct a v g w < o 2 n g p a v t g l v g . j q i { p g n A p m p g o e u c m o w n w p m
 x c p . j c p g o x c n d c p v 4 v p g k p g o | g v x c i {w p m j k x v u w p m v t c i k n w
 v g t j 2 x g n x 2 i r g i g u g p . x k u l c x q p j c v c p w n 2 u x 2 i | g u l g t g p 0 G i 2 t v p g o
 w f q w d g n p {w i q f p k j q i { d w n i u w p n d c p r g c r e u q p {q f j c u w p n c c
 m n w A l h 2 p { g n 2 r v g c r r l a d c p x 2 x g c r g v r q t v p g o | g v o 2 n u f i /
 v r l g u o c i c v t v a p c m n 2 4 g r l g w u 2 i 2 v c n e t v c c v k c p q k p g o | g f 2 m

wcmqf» ²ngv²t|²u²x² cxcvpl0 G|²tv cpp{k c o gi ner» o²t c hcvn
 Mrgdgudgti p²n ku o gi hki {grp k c|v c| ²tf gm f²uv vkqnmgtgu²uv. co gn{/
 n|gn c o ci {ct v²v²pgv Avxgu|v kdgp u|AvvrgpAn ngtguk c o ci {ct
 r²v ctcpeuqv0 C v²xqf²m» c|v i qpf qj cv². j qi { c ehwteucpgxÄ@
 it»h cnk o kpf gpn²rrgp l» o ci {ct cnet rppk v²v²pgm k vpw/
 o²p{qm Ä²p u|gtgv² r»vqpk c|v co k c| ³u| v³p³u o gi n²v²ud»n
 j k²p{| km u co k c x²t u|cx²d»n pgo j cmw| km gr²i xk²i qucp0 Gtt n
 u|» ugo rj² gv# Mxgugddgp ²tgl²m² v o²t gr²xg qn{cp ³u| v³p³u²gp
 c o ci {ct uqtuv. o kpv²rrgp 0 C v²v²pgrgo p²rc c| co Äi {ku²dgt
 ³u| v³p v»rci rgi h²hgd wfcvqu² vgw² u gt ugdd² hqmq| v0 C|
 ki c|. j qi { xqncm qn{cp w²lf qpu² ick ku. co gn{ngv c n²h hgr²i² u
 pgo vtv vr knw o ci {ct lmg o xq² uqncn0 P go kuo gtvg r r0 c i {cni
 tcp gn h²f w» o ci {ct dvgi u²i gv. c| gr²²t|²uv gi { i qpf qrcv0 0
 Cpp{k c pgo rj² gv c rgi dtw² rucdd v² o cf² uqmcn ugo gm²f xgv/
 p²kpk j qi { vx² dd pg f qn q| |² n0 U c| ku ki c|. j qi { pgo vku vng c
 o ci {ct qncm L» nek» n v²h² u j wo qttcn go rgi gv w u| gpv² m v² v. c
 uÄv i cvo dq0 Mrgdgudgti j clmpf» xqv o kpf gp²tv ngo²p{gp o gi/
 f qn q| pl0 Fg o ci cv² v² v kpi cf q|² u p²mÄn o ci {ct pcm ²tgl vg<
 er q| k²ki o »f qp o ci {ct pcm u| go dgp c epgi v²ki o ci {ct o ci c/
 vtv² ucn0

C i ko p²| kwo k vpw²² p{qnev c u|² ngu h²j² tx² tk eku| vteln²² n
 x²i gl v0 C| cp{² u i {gt o gm gr²kpv² uqnev dvgi gungf gw0 C xqv vpw»/
 v²tucm hgr²i {gl² m t»rc. j qi { i {gpi g h² knwo² xcn c vguvpgxgr² uk
 »t² nq c rgi wqn» m n²h² u| qtw. co k c|² tv ku² tf gngu. o gtv n² u dd
 gdd n c tqul v²tp² u| d»n rgu| c o ci {ct vguvpgxgr² u gi {km rgi/
 dw| i »dd cr quvrc u c| gm o ci {ct eur qt v o ko u| vt0 U lmg o k
 v²tgp ruucpnkv mÄ² f k hgn o ci² v ô co kpv gi {km xqv v²² te o gi/
 lgi {k ô ec p²rgu qu| v² n{ grv vpw» l² x² 0 C| v ku hgr²i {gl² m t»rc.
 j qi { h rgi c o cvgo c vkn² dcp lgrgungf gw0 Vcp² tclpcm nÄ² h² ugp o kp/
 fgp cnef² n{ qv i { |gf gm gungf gp²ti k² lc v pv hgn= c| gi {km n²h² ÄÄn
 ² rgu² v» u| go gn j co ctquc o gi² mcr² qvc. j qi { gl c| gp²ti k pgo
 h»» r² pi. j cpgo ej cvm cu rct² u| 0 Xqv v²² tclxcn² u² nci² dcp
 c eku| vtetek tgp² f gn o kpf x² i ki² r qnc c rgi {gr²gvu ³u| gn² h² v² u<
 t² i k i ko p²| kwo² pcm n² u|² xgu lvdkgwo² p. o²t o kpv o kplu| vt.
 vtv² v c| Äppgr k dgu² f gv x² mnc c eku| vtetek f k² m| ³xgv² i
 gr² h² i² v. u vc tgp² eqpl² cv² g xqn0

C i ko p²| kwo k vpw²² p{qm dgh² gl² ug w² p c| gi {km o ci cu/
 tci Ä ne vpc/pci {d² euk dgh² n² uc c²w Mrgdgudgti ku c| qp c r² n² p
 kpf wv gn co gn{kn² gn v² c eucif l² thkci lck v² dd pgo |gf² ngp
 ngtgu| vÄn² rj² kcv² unev o gi v² n² n< p³xgp²² ng r²w c d² euÄj gn{k

nəvɔpk cnef² o k² pcn⁰ C nk^a pf w¹ u¹ a⁰ dc o gp n¹ l² trvg¹ 2u c| qp/
dcp t³ k¹ k¹ g¹ k¹ vctvq^w w¹ pc Mrgdgnudgti Dwf cr guvgp dgk² cnu¹ | qw
c lqi k nettc u o gmgwg u¹ qti cm cucp hqi ncm¹ | qw v⁴ v² pgk vpw¹
o^a p{qmcn⁰ U l¹ kv¹ u¹ ko d¹ nwo n¹ pv j cv j qi { gi {k¹ g¹ k¹ c n¹ p{xgm
j^a |^a dcp. c| gi {gvgo k n¹ p{xv¹ t² r¹ Arg¹ v² dgp. ncm¹ qw c| gi {km n¹ p{x/
v¹ tk cmcm c| qw cnd² tn lgn¹ p⁰ C n¹ p{xgnj g¹ gi² u¹ 2¹ rgv² dgp tgp¹ /
n¹ k¹ Ark o² t² v² ndgp xqp¹ » f¹ qw u n¹ u ddk o ci^a pn¹ p{xv¹ tc gi {kng rgw
c rgi u¹ gdd. rgi i qpf q¹ qvcd¹ j cuq¹ n¹ i { l¹ vgo² p{gnp¹ gn⁰

Lqi k vpw¹ a⁰ p{cl¹ pcm dgh¹ gl¹ v² xgn dgk² cnu¹ | qw o² i c/j gz¹ rpk gi {g/
vgo tg⁰ Qwcpk v¹ p^a tck n¹ 4¹ An h rgi Jctpcm Cf¹ q¹ hv. c pci { gi {j^a | /
v⁴ v² p² u¹ v² u¹ wf¹ qo^a p{r¹ q¹ k¹ m¹ w¹ v¹ vx^a dd^a Y ci pgt Cf¹ q¹ hv. c pci { /
j¹ | pgo | gv¹ c¹ f^a u¹ v¹ go rgi gwg n¹ u dd ku tgp¹ n¹ k¹ Ark v¹ l¹ v¹ rgv¹ r⁰ Vcpw¹ /
v¹ tuck n¹ 4² vctv¹ q¹ w Dgen¹ t. c n¹ u ddk r¹ q¹ t¹ q¹ | n¹ 4¹ qmc¹ v¹ u¹ 4¹ {k o l¹ p¹ k¹ /
v¹ t. n¹ k¹ xgn² rgv² x² i² k¹ dgn¹ d¹ c^a w¹ i h | v¹ g³ u¹ g u c¹ n¹ p¹ gm pgo eugn¹ n¹
j¹ c¹ v¹ uc xq¹ v n¹ u dd Mrgdgnudgti gi {gvgo k² u¹ wf¹ qo^a p{r¹ q¹ k¹ n¹ l¹ a¹ tc⁰
C h¹ k¹ v¹ r¹ c dg¹ r¹ k¹ gi {gvgo tg 3:;7/dgp n¹ tv¹ < r¹ qp¹ v¹ c¹ j¹ to l¹ p¹
2x o Ark. 3;470 qm¹ » dgt 420^a p o cl¹ w¹ {cp¹ g¹ p c| gi {gvgo gp hqi. o l¹ p¹
o ci {ct n¹ 4¹ qmc¹ v¹ u¹ 4¹ {k o l¹ p¹ k¹ v¹ t. l¹ p{gu j¹ cm¹ c¹ v¹ u¹ i gn w gn c¹ f^a u¹ v¹
vctv¹ k¹ c x¹ k¹ i¹ j^a dqt¹ Av n¹ 4¹ gv k¹ u¹ cnd¹ gu o ci {ct m¹ w¹ w¹ r¹ ku v⁴ g¹ n¹
x² u¹ gnt¹ r⁰

l¹ rgv² n¹ 4¹ gv¹ | u¹ cnu¹ a⁰ pcm h dd o q¹ | c¹ p¹ v¹ k¹ v¹ o ci c Mrgdgnudgti
hqi n¹ r¹ c¹ 3¹ u¹ g¹ gi {km n¹ u ddk 3¹ p² r¹ v¹ t¹ c¹ | u¹ a⁰ dc o gp p{kr¹ cnu¹ | c¹ v¹ /
dcp < ẽO kw¹ p c dg¹ r¹ k¹ gi {gvgo gv g¹ k² i g¹ vgo. j¹ c¹ l¹ 3¹ vgo² u¹ Dqp²
I² | c h¹ l² to gi {gk c¹ k¹ r^a p j^a |^a dcp v¹ r¹ m¹ | vco D^a pl¹ h¹ F¹ g¹ u x¹ r⁰ Dg/
o w¹ c¹ w¹ cm pgnk o l¹ p¹ u¹ qti cm cu. v⁴ g¹ n¹ h¹ c¹ v¹ rgo dgt¹ 0 C¹ | v o q¹ p¹ v¹.
2¹ r¹ r¹ gp k¹ | gp go dgt¹ g xcp u¹ 4¹ n¹ i g¹ < dg¹ x¹ w c o l¹ p¹ k¹ v¹ t¹ gp¹ 3¹ n¹ i² tg⁰
Ugi² f¹ hqi cm c¹ » rgvgo. f¹ q¹ i¹ q¹ vco. vpw¹ co h¹ q¹ n¹ v¹ qp¹ qucp⁰ Vkn¹ t¹ xq¹ /
vco. co kn¹ t¹ 3;25/dcp l³ v¹ Vku¹ c⁰ Mrgdgnudgti n¹ u dd ku u¹ k¹ x¹ g¹ v¹
go rgi gwg. j¹ qi { c o ci {ct d¹ 4¹ t¹ q¹ n¹ i² e¹ k¹ dcp p w h¹ gn c ugi² f¹ hqi cm c¹ » k¹ k¹
u¹ i¹ qp n¹ | f¹ v¹ u h¹ q¹ n¹ | c¹ v¹ qucp gn t¹ g¹ c¹ r¹ f¹ x¹ c rgw c¹ f¹ o lo ku¹ v¹ c¹ v¹ k¹ a¹ n¹ co /
vkn¹ t⁰ X² i¹ ki o gpv c¹ gi² u¹ t¹ c¹ p¹ i¹ v¹ a¹ p u gn ngn u¹ a¹ to c¹ a¹ uc g¹ n¹ p² tg
pgo n¹ | f¹ v¹ r¹ i⁰ t³ 4¹ v¹ p c¹ a¹ n¹ co vkn¹ t¹ u¹ i¹ i¹ cn c¹ | q¹ p c¹ c¹ r¹ r¹ qp. j¹ qi { ẽgn¹
x² i¹ tg x¹ c¹ j¹ q¹ n n¹ | f¹ g¹ p¹ k¹ n¹ n¹ O l¹ p¹ k¹ v¹ t¹ n¹ u¹ |^a dcp. co kn¹ t¹ r¹ g¹ f¹ ki o^a t¹ r¹ q¹ k¹
v¹ n¹ w¹ xq¹ n¹ o² i o l¹ p¹ k¹ u¹ k¹ x¹ g¹ v¹ o l¹ p¹ u¹ | v¹ gw o ci^a v gn | gv¹ u r¹ n¹ c /
h¹ w¹ u¹ t¹ c j¹ k¹ c¹ n¹ | x¹ c ẽj¹ k¹ c¹ v¹ p¹ q¹ n¹ o l¹ p¹ k¹ v¹ t¹ p¹ gn¹. pgo wq¹ n¹ » uqt¹ dcp
c¹ |² tv ku. o g¹ tv c v rg n¹ r¹ x¹ l¹ u¹ n¹ v m¹ w¹ A¹ r¹ q¹ r¹ k¹ n¹ i¹ v c u¹ cmu¹ | gt u² i j¹ c¹ p¹ /
u¹ An¹ | q¹ a¹ uc o g¹ m¹ gw g¹ | gn c hqi^a u¹ cn ku c u¹ n¹ gdd r^a t¹ v¹ | go r¹ qp¹ v¹ m¹
h¹ 4¹ n¹ k¹ a¹ p¹ v go gp¹ k¹ o f¹ n¹ c¹ dcp. j¹ c c r¹ c¹ t¹ n¹ co gp¹ v¹ dgp m¹ w¹ A¹ r¹ q¹ r¹ k¹ n¹ l¹ v
h¹ l¹ v¹ g¹ v¹. o l¹ p¹ k¹ u¹ | ki q¹ t¹ A¹ c¹. o² n¹ » u¹ i v¹ g¹ l¹ g¹ v¹ w¹ c¹ f¹ | q¹ v¹ x¹ ku¹ c c
r^a t¹ v¹ q¹ r¹ k¹ n¹ c¹ ku¹ gp¹ x¹ g¹ f² n¹ g¹ v¹ nh v⁴ w¹ u¹ cmu¹ | gt v¹ gp n¹ 4¹ d¹ gu¹ » n¹ u¹ q¹ n¹ v⁰

Ki{gp gugvndgp Ai { xkugmgf gw. o kpv xcrcok ul gpv t{wu h r r l c <
 hki {gro gv. o gi²t²v uv. vku vgrgvv n{^apv c| Ai {pgm co kg o ci c
²rg²v hngwg#

O^at o quv o gi lgi {g|j g v{An< Mrgdndgti l>hcto^ap ngl f gw n
 hqi xc. c tci r{v tc rgi cn» hqncp ku. qtu^ai qu. u v dktqf cm k v²xrcv>n
 p²|vg c| gr²lg ngt{An Ai {gnv u c rgi qwj qpquddcp o q|i qw c pgo|gv
 uqtuf³pv rtqdr²o^ak n²4²dgp0 Kc|k xgl gv²utg vto gw gi {²pk²i xqn0
 C|. cnk c n²4 gr²dg ngt{An u o vpr²l^av o gi kuo gtvg. o kpf ki c rgi lqddcv
 ner v c u c rgi pci {qddcv tgo²nj gwg v rgo C| c v{gu v²ti {u|gtvgv.
 co k n²u ddk o vpr²u^ai^av lmggo gl vg. ngl f gw n hqi xc c rgi pci {qdd
 j hqnpq rdqi qwdgppg0

O kplu|vtgr³4n²i k n²4g gi {kng xqrv c rgi hqvquddcncpm
 rgw c pgo|gk²i k Ai {gm k^ap{«lc0 O^at ugi²f vknit nqt^adcp gn/
 cf>lc xqrv r10 c| kfgi gpdg x^apfqtqrv o ci {ct j pquqm pgo|gk i qp/
 fq^auc Ai {²dgp vctqvw pci {hqvqu^ai A dki cm cu²tvng|rgvngm0
 f nci dcp o vpr²gtglg pci { t²u²v c j qtx^av u|rcx»p v²tuqtu^ai qndcp.
 c Tqo^apk²dcp²u c vpi gtgp v{An u²v u|>tv o ci {ctu^ai i qpfq^auc n²4
 v²4g rg< gl gmv u|gtxgl vg. gi {dghj v. j qi { gt u{ug u o gi o gpvug
 ngv pgo|gvApm u^ao^atc0 Dg^anci dcp hki {gplg nmgw o kpf gp qn{cp
 n²tf²utg c o qptej lc j cv²tclp dgn{An²u n{An co gn c o ci {ctu^ai qv
 pgo|gk u|go r qv>n²tkpvgw0 C o ci {ct o kplu|vtgr³4npgm wf xc/
 ngx rgi o »flc²u n²4ngur²ig xqrv c n²4³u m{An{ k v²p{gl ntg ku dki q/
 p{qu hqni jcvk o kpf gp qn{cp n²tf²udgp. co gn c ucl^aqu o ci {ct
²tfngmgn³4u|gh{Ai²udgp xqn0 Cnk o clf gi {u|gt t²u|rgvugp hqi rnr/
 nq| km Mrgdndgti²rgtcl^axcn vrgugddgp kuo gtvgj gk hqvqudd
 cnk>kv r10 c i rci qrv rkwilc gmgpk m{ fgm²v c hwo gk o ci {ct r{An/
 r³4n²i hgn n{v²u^atc k^ap{v» v²4gnx²ugk vud0 G| cmnqo o cn eucm
 clqnev c o q|cpvqvnev go gr{An nk co gn gm n²4grgddt n gn n²u|v
 vgw²m n²u ddk pgo|gw|gtxgl²u pngxn o vpr²u^ai^av0 Gn dd c|qpdc
 gi { rkrp²uv ngm xgvApm vpw^ap{cltc. ³po xgr²u²tg. wf qo^a/
 p{qu v²4gnx²ugkg. i vpwnc o hqn|vppucpi-ô kf²|v{An hgpv gi {kn
 p{krvnu|cv²v0 P²||{An o gi n²4grgddt n o k tglv|km g n²v u|gt²p{gp
 qf cxgvw u| » o ³4³40

O^at c hxcn Mrgdndgti c u|qti cmo j²tqu|c# U|qti cm^av hqnu|v
 dqrf qi. jcto qpknu. p{wi qfv eucrf k²rgv0 Hxcvnp p u{An ô hrgu²/
 igv c| uk o ci {ct Dqvn/eucrf d>n x^aru|qv. co gn pgo gu²i²v c
 ZKK0 u^a|cf ki wf lc xku|cxlpp0 J kxgu²dgp. cnk o kpf x²i ki c rgi/
 pci {qdd i {gp²i u²i i gn²u u|gtvgvgn xgw n²4{An ki c|k²rgw²tucv ner qw0
 O ci^ap²rgv gi {^anci p pgo xqvc v gn c tg^a x^at» hrcfcvqm o gi /

qif^a u^a »r0 Vcpwv² u hqn(vqp vcpwv0 Mfu dd uqnep euqf^a mu| vcm c| qp.
 o k o kpf gpij gl² tvgw o gpp{ktg c i {3/4ngt²tg wfwq o kpf gp nřtf² u/
 pgm rknřpvcqm cřw vřkpřpk o křgp jclřřnřp{ xqrv o křfx² i ki c|
 gm² lg0 Gi {km nkx^a n» vgt0² u| gwff »uxpm pgo i | {3/4w tclvc^a o wřk
 o křgp nřpp{ xqrv c ři gřkřpvcdd vgt0² u| gwff qo^a p{k nřtf² ugm
 řřp{gi² v ku Mřdgnđgti i gn rknřpvcqm cřw o gi tci cf vřpř0 Cnk c| qp/
 dcp dgr knřpř^v uv p{gtj gvgw o jgn² dg u r r0 hqi cvj cwc ko dqn{i »
 dgv u nř| ř^a u^a xcn tgpř u| gřkp v ugd^v dgp 3/4u| gt »w hři gi | |² ugk. c|
 uqnev o gi² tvj gv c nř u ddk Mřdgnđgti d r0 Co knřt nř4 qmc^v u Āi {k
 o křku| vřt xqrv. vř4du| 3/4 go ři gv² m v² ř² ucp² u nřo qn{cp< o gn{km
 vřte^a v ngnřpg pgnk wřlf qnř^a r r gp^a v gppřkA C ři vř4dgp c řř4f/
 o řkřř^a u Āi {k vřte^a v u| gtgv² m xqřc t^a d ř^a pk< c mřt o gi nřppg qř xc
 c| ci t^a tqtu|^a i uqm o křf gřř² řg dclc# Vcř p pgo ku wř^v m o křgp uqnev
 hqi rcmu| qw Mřdgnđgti o^a t hřvcn nřt^a »n nř f xg h ři c řř4f tghřto
 nřtf² u² xgř# Xqřcm cnkm c| křct² u nřt gungř gřgo řř4nřpř ř² u² v x^a t^v m
 xqřc v řg u u| křvg uclp^a nř m gtgl² v² u vřj gw² i² v c mřwř^a řku Āi {gm
 v r0 C o ci {ct ktgř gpc/v qpf qrv gi {km |^a u| n» xk lg j qpx² f gm k
 o křku| vřt pgm u| gtgwg xqřc v ř^a vřk< c mřt ô Vřkcpq křg. Vřkcpq
 qřc ô dķ qp{qucp nřppg d u² i dgp gři hgi {xgt Āpn# Co knřt c Dgv nřp/
 nřto^a p{ řgo qřf qw u nřt gv² m c ěvcnř² nřu i r² p| Āi {o křku| vřt. gi {
 p² xvgřp nku ekmgęung v² ř² u/nřo qn{p Mřdgnđgti gv cl^a pñvc r² p|/
 Āi {o křku| vřt pgm c| v c Mřdgnđgti gv cnk c tgpř u| gtgugř řřt gxg| gvgw
 nř4 x² rgo² p{ gi {t² u| g² r r gp r c| tñ ucn x^a f qn< ěP go vcnř² nřu.
 jcpgo vřj gw² i gu go dgt nřm c i^a vc0 C j kř gi mřk xk^a o tgo gv² t n
 r gř ki c| gņpř² i g ku wřlc. jqi { vřj gw² i gu c nř4 o g jgi {² ki 0 O kř ki
 o gi wřvc euk^a řpk c| v co kv c nřtv 0 0 0 jqi { l>n² r ř^a gw c| v u|^a |² x
 o Āřc ku wřpk hqi l^a n0 C| v jku| go. jc vcnř² nřu nřf pk nřm c| v ku l>n
 hqi lc o gi euk^a řpř0 Xcp nřv pci {u| gt wřlf qpu^a i c. co gn{gv řřf cñ/
 o cucp p² mřř4 Āpm c| 3/4u| gu vcnř² nřu i k dķ qw^a i qnp^a n< r l i v g c 0
 go dgt² u qř vřo křc 0 0 0 pci { r tqdř² o^a nřv eucm qř vřo kř^a m u| qmcm
 o² i qř cpř0 Mřdgnđgti ugo o křugvř ugo hqi lc c| cf »hķ gř nřv řř u| cv
 cf »tgpř gřg vgnřn t² o ř^a i gřpř0 0 0 Mř li^a | | cn hqi lc nřv o gi p{ Ā pk
 fg Āi { jqi {² nřgl gv^a m vřkm dgppg 000i o ci c. co křp gi {km dķ cñ/
 o cu j ř^a pgm go nři gwg. c o ci {ct mřwř^a c o gi o g p² ug wř p vř p
 c ři u| ř^a gğddgp c xcrc knřt p{ ipgm² t| gw dgn Āi {k vřte^a v xvgw.
 xqřc kuo² v^a v jqi { gn ddtg xk {g c| Cnřř4f/nřtf² uv u jqi { hřk^a /
 i q| vřuc c o ci {ct x^a tqnřv0 D ř^a qw o ci^a dcp. fg o² i křm ř dd d ř^a vcm
 o^a uqm dgppg< wř^v m jqi { co kř gi j q|^a hqi. c| v i {3/4ngt² p tci cf lc
 wgi u t² u| nřv k dgp ku o gi kuo gřk0

P go kuo gtvg c řřtcf u^a i qv. jc vcpwř u t »n xqrv u| »0 J c qti qp^a v

²r ʃwgv cmmqt ki {gmu} km dgrgf ʃpk c nʃtf²u o kpf gp hqpvqucdd t²u /
 rg²dg0 J c x^atqutgpf gl²uk vgtxgndg ul »n dgrg. gn dd x²i ki ʃpwo^a /
 p{q|c c pci {qdd gwt»rck x^atquqm kf gxqpcvnu| » rtqdfi^o a^k 2^u gl gm
 o gi qn^auk o »fl^a ʋ0 Mxgugp hqi rcmq| vcm o²i ul cngd dgtgm ku cpp {kv
 r r0 Rctku xci { T»o c x^atqutgpf gl²uk rtqdrgo cvn^l l^axcn o kpv Mrgdgn/
 Kltgi 0 Co knqt j kf gi m^ʌk i {3p{3/4 wu| m^ʌ pwo c ngtv²v vgtxgl k²u
 o gi xcn»uʃlc. Ai { nkkuo gtk o ci^av c m^ʌʃpd^{3/4} eugt^l2m dmtqm xk^a /
 i qm hwt»t| u^m n^ʃ4 3/4v. cn^lt gi { ul cmmʃr| gw ngtv²ul 0 C ʋ i cddn^ʃ4
 n^ʃ4 x²rgo²p { ku ul^a o qpvcvqc t»rc. j qi { ul gtgv o kpf gp nʃtf²upgm
 c x²i²tg l^atpk0 Co knqt c hfgw wu qf^av 2r ʃwgv. vcn^lp p²o k v^ʌ a^ucn
 o gi ʃv^lm t»rc. j qi { o gi tgp gw l^ʃm²vto^a| uc n^ʃ4 {xgv urqt»n
 ʌ^u a^ut»n 2r ʃwgv²ugnt n o gi ʃpwo c i {qtu ʌ^u a^u. o gm ʌ^u a^u. j^av
 ʌ^u a^u. x ʃk r »n gm²rg²v u eucm cmmqt hqi qw j q|^a c o gi xcn»uʃl^u /
 j q| 0 Ug pqp g xgtq. g dgp) vtqxcvq[#] Kcvckpcm ʃpwo^a p{q|^auc cl v
 o wvdc. j qi { c pci { dk cnqo ul go²n g k^apv o²i uqmen kn^ldd
 o gi qn^lv xqrv o kpv co gpp {ktg c ʋ xqredd^a m»m gi {^ancn^lp gmʃr /
 | grj gw²n0

Wcnco o^at c n^ʃ4 {xgm k^apk ul gtgv²tg0 J cn^lrcnqt ʋ/4dgl gt
 n^ʃ4gv ul²rgp tgp f gl gw i qpf qucp ngl gn u h rgi uqnev jcul p^anv o ci^ap /
 n^ʃ4 {xv^t o ctfv w^ʃpc0 Gi {2pk²i g o gi kuo gt²u²j gl c| gi {km Av
 n^ʃ4 {xgkp ngtgu| v^ʌn xgl gv0 Fg xcp c p {qo vcvw n^ʃ4 {xgm o grgw o²i
 gi { uqmen dgeugudd o^aukm i { lvo²p {< c n^ʃ4 kcvqm ʋ/4 gi g. c rgi /
 ʋ/4d gugvdgp jcvw cu. u^ʃʌ²ul ʃp. ngo²p {ʋ d^lu h^ʌ gvgm hqto^a l^a /
 dcp0 Cnk gl gnl n gi {ul gt rqpvcup 3/4ul g^an^ʃcp^a. o k o kpf gp hqi rcn /
 nu| vvc Mrgdgn dgti gv o v^ʃn^lu²rgv hqn {co^ap. c| f 3/4dgp g ki c|^ap
 eucm o gi c ul qti cnqo pcm²u c w^ʃa ux^a i {pcm gl gp c o qpwo gp^ʃ rku
 r²nf^a l^ap#

Mrgdgn dgti pgm n^ʃu dd gi {km rgi h dd ʋ/4gnx²ug. xqrv j qi { pgo /
 | g²v co gn {pgm vgi gw²i²v gi {2dn^ʃpv qn {cp pci {tc dgeu ʌng. gi {ʌwcn
 tgst ʃul gtgu. nkct». ul ʃk»u o v^ʃn^ltc ku p^gxgrlg0 —i { 2tgl v. j qi { gl gp
 cn²tgp pgo x²i gl h^ʃ4 ʌngi gu o v^ʃn^lv. o ci c 3/4o ci^av | uipi g i {gt /
 o gnuqt^a »n hqi xc tgp ul gtgu²i tg ul qm^ʌvc0 G| gn gi {ʌw l^atv c lgi { /
 | g^ʌulp^a n^ʃutc xcn» j cln^o 0 O gi o ctfv r r0 c ʃ^ʌ2xgu i {gto gm ʌxc^f a^u ʌ
 per »lcì 0 C per » gi { nku mte^atqu kun^lck k^lnc. co gn {gv c| kl^ʌ pko t»f
 o »f ul gtgugp tqxcvqntc qu| vq^w j^ap { ʌxcfcv glgv gn jqn o knqt.
 o kv 3/4ul gup j^ap {cv0 C ʌxcfc i c| gugvm v^ʌp {qo » t²u²dgp xgt²d xci {
 d²ne= o^at pci { gugv j c ʌul ctn^ʌi^a dgt^la pi xci { hku l^ʃpe c U^ʌd»r0 Fg
 cn^lto kn {gp nkeuk rgi {gp ku pgo ngt ʌj gk gn c i qpf qu h^lngi {2u0 U c
 h^ʌ gvgv o^at c i {gto gm ul²rgp h^lng ʃul ʃk o kpv c j qi {cp o clf n^ʃu dd
 c o kpu| vgt r r0 c ul gi gf k gi {gvo k²r ʌngvm gi { t²u²v c jcul pqu^l i k

ul go r q p v q m v r l g u 2 r u 2 i d g p j c i { a u x c n o x 2 u l g v k r g i k u k i 2 p { g u p
 n r g l g v k n k o g i c m u w a p c e u q p n e q t u l a i g i { k m r g i u l g d d v g t 2 v 0 E u c m
 g i { g n t g o 2 i i q p f q u v A t r g g o o g n r e p { a n c l q w r x q p u n r r g m g n f q n i q /
 | k m u p g o l t g u n e v a m q f » o x 2 u l g m m r 0 C | k n e h f r e l v f u l v
 a d t a m o c k u g r x g p u l p g n d g p t c i { q i p e n 0 C n r r g m g i j g n l 2 u 2 d g p .
 v t i { k n k a r e u l v u w n d e p x e p u v i n u < p c i { q d d t 2 u l v c l a m v x k i i d n
 x e n m o k p v c j q i { c p g l g i { v l 2 x g u g o d g t n g x c f a u l p e r n m l a j q l k r k n 0
 V k g p j c v 2 x g u n a t a d n k u o 2 v o c t c f v t a p m g i { o a u k m x c f a u l p e r n m <
 g d d g p o a t n a o q n c d d | u n o a p { f c t c d q m u l g t g r g p g m p { v a m h q i /
 n l q m 0 0 0 C | w a p l 3 p p g m c v x a d d k x c f a u l p e r n m c p c i { . t g p f u l g t k p v
 u 3 4 2 v x a u l q p n 3 4 2 u h A g v g m v r k g c l q r k c u o a p { q m g r o 2 m g f 2 u g m
 o g o q t c p f w o / x a | r v q m r g x 2 h q i c m c l x a p { q m v g t x g l i g v 2 u g m | u r m l
 o a p { c k x c n g i 2 u l n k u n r p { x v t t e o g p l g i { | g v c m c l w m e r 0 O g i /
 v e r i n p m c h e r l g i { | 2 u g n d g p u q m o k p f g p v c d d n c o k v 2 t f g n g n g .
 g m r | g i j g v g v p d u 2 i d g p . x a n q l c v u a i d e p . u q m l q t u l k p v e u k m r v /
 j c v e v e p o q j » u i p e m v g u l v e t n e u a i d e p 0 C r e i p c i { q d d t 2 u l o 2 i k u
 n i j c v e v e p u l g t g m g . c v 3 4 2 p g r g o h q i r e l c r g < 2 x u l a o / u q t q l c v q m
 g u g o 2 p { h e n u q t q n i u q m i g p g e n i k a m q r k c u o a p { n k x q p e v q m u c l g l g n j g l
 h | f g r o 2 m g f 2 u g m p g o t k n i p o g i r e r o g u u l g u 2 i d r 0 O g n g w a m
 p c i { j g m 2 v h q i r e n r g c p g o | g v k u 2 i k n i t f 2 u . o c l f c o x 2 u l g w 3 4 2 v p g /
 v g o . v l r e i c l 2 r v l 2 u l g v g d d n k u c d e t q m 0 C o x 2 u l g v M r e d g n u d g t i
 2 r e 2 p g m c o a u k m p c i { u l g t g m g # O 2 i p k p e u j c t o k p e 2 x g u . c o k n a t I 3 4 3 4 /
 q t u l a i d c w c | k m u c o c i c u l a o a t e r e l l c g l v c l A p p r 2 n l g u . u l k p v
 r c v j g k n u o q p f c v q v e t T g o 2 r g o 2 p g o o g i l c x w i t v o g i p g o g u g f 2 /
 u 2 v c v u l v e i 3 4 3 4 o x 2 u l g v p g o g u t g o g n g l p 0 U c l w a p l 3 p p g m g i { 2 d
 l g i { | g v g m g i { v n g i { k i a m c p f » c p 2 d g t 2 t f g m f 2 u 2 p g m n k g i i v j g v v
 r e p w f a u l q o l a p e m c l c f e v q n e v v t q r p k n i k a p » t g p f u l g t g v 2 p g m d k q /
 p { v l 2 n e l 0 f v h q i » w f a u c g l g n d g p i { 3 4 n g t g l k m j c v e r o c u h e p v | k l a v
 p g o n k u t 2 u l d g p g r 2 r f a v e p q r k c u q w i d n o g t v l g w c f e v q m e p e n i k a m
 r e p f v l g v 2 n 0 M f u d d u l g o 2 t g x g v g w 2 m j q i { p g o x q n t g u v r q i k n e k
 3 4 u l g n i 3 4 g v 2 u g m n g t g u 2 u 2 d g p 2 u a r q n i t d e p 0 J a v o 2 i o g p p { k t g p g o
 x q n v t g u v c / w f a u o g i u l g t l 2 u 2 d g p 2 u o g i t l 2 u 2 d g p # V e p w n 2 x g k n a t a p
 n g l f v g m u j c i r i k i v t q v c n 0 | r e v w a q n » 2 x 2 d n o 2 i j c v e r o c u
 l g i { | g v e u q o » m o c t c f v e m t a p n #

X g i { A p m g n e u c m r 2 r f c n r r r g p g i { k n g p n g o 2 p { v d i f u h A g v v
 u h u u v p m x 2 i k i c v e t v e r o a p 0 M r e d g n u d g t i n d 0 5 2 2 x g u 0 U q m h e r l g i { | 2 u v .
 i q p f q r e v q v v e r i n p m c p g o | g v k u 2 i k n i t f 2 u t r 0 D g r g t > l l c h A g v 2 d g . g i { g /
 f t g e u c m 3 p o c i a p e m c p c i { v e p w n i q v c o g n l g v c n a t v t u c m g i { 2 u l g
 c r i j c 2 t v g w x q p c a v l c p g o | g v k u 2 i k r q i k n e e u c m c m a t r e j g v j c v /
 u q u . j c p g o | g v k r q i k n i x a w f l w m o c i c u l v u l c p k = p g o c l c h e r f e v

jqi { jc c pgo | gku²i gngv grp { qo lwm xci { cnft i { gpi { ſu²Am jcpgo
 jqi { c o ci { ctu²i qv gt u²ſu²Am O^at kw nk²Av dgn ng c ër q| k²xi o ci { ct ô
 jqi { gi { n²u ddk ngf xgnv u| cx^av gn rgi g| xg jcu p^a rlvn0 Euqf^a m²u| xc
^a mcr ſ²Mc o gi o^at gmmqt c nwm²Atc gmgp^a nj cxcvcp gtgl²v< cj qn rñ0
 c pgo | gku²i gm gt ugddgp nk xqncm v²xg c hgru ddu²i gu o ci { ct nwm²Atc
 jcv²u² pcm o kp v c x^a tquqndcp. qw o kpf gp u| kp v o ci^a w²n o gpx0
 O leuqfc vpwu²i gl² rrgp cpcm cnk o clf nd0 n²v² xk² gf o² Àxc c
 dgvi. euqne qtu^ai qv c nwm²Atc gtgl²xgn cnetlc i { > i { ſcpk u v g| gn
 c| gt xgn qtu^ai qv rt>d^an Àlc²r ſ²epk# O^at gmmqt pci { l^adcp x^a| qrlc
 gi / n²u ddk ô c n²kgvng| mlgp t²u| rvgugdd luo gt v²utg ngt²Àn ô
 v²4x²p { lcxcurv² pcm c| A0 p0 p { gxj cv² tk cnelc pcm h dd o q| | cpvcwk.
 gi { gn tg o ci c u^a o^a tc0 Mku^a o ſ²Mc c xctj cw» n²4m²i gngv ku. o gtv
 c| c| go dgt. cnk pgo xgu| k gn u| go gn n u^a tp { cfu n²4 dgp c h²4/
 fg0 G lgi { | gveuo » w²p Àcdd hgrgi { |²ugngv vcr² n²pm c nqtul cm
 uqnev xkcvqw n²tf²u²t n c| ^a ncr²pqu u| cxc| cvk lqi t>rñ0 Cmmqt o²i
 pgo ugvk jqi { nd0 o^a u²fn² xk² gf o² Àxc dgn²Ài { o kpul vt rgu u gi {
 v rg nkdqu^a vqw x^a rcul w| lqi k tgpfgngv crrl^ap c o² ncvcpwn u| mtg
 ngtgv| gw euqne qtu^ai dcp o clf uqtuf³/v pgm o kp ſ²ij gv x^a rcul /
 v²uv hqi pcm o gi glvpl0 C vqx^a ddkndcp u| qek² rku n²tf²ugmgn hqi rcr/
 m²u| km rlggi { gl x²p c| v c o gi i { | f²u²v. jqi { c u| qekr² o wu c nqt/
 u| cm rgi o qf gtpgdd u gi { dgp pci { hqvqu^a i À gu o² lg0 O clf pci { qdd
 d u²i dgp v²4v² pgr k lgi { | gvgm n²kgvng| pgn0 Mrgdgnudgti dgj cw» o > /
 fqp hqi rcm²u| qw o kpf x²i ki v²4v² pgk vpwu^a p { qmnen fg gu uqt dcp
^a mco xgl gv² uk u| go r qpvd>n< o kpf x²i ki jkf gwg. jqi { ëc i { c nqtrev
 u| go r qpvd>n eucm qn { cp ^a mco vcp rgi gv co gn { v²4v² pgk crr qnup
²r²Àn hgr0 Mrgdgnudgti vj^av pgo cpp { kc v²4v² p²u|. o kp v kpn²dd c v²4/
 v² pgrgo d n vpwu^a mco h²thk^a xqn0 U^a o^a tc c o² Àv c| gi { gv²pp o gi d² /
 jcw» Ào wcv» c lgrp i { c nqtrevk n²tf²uglpgm o gi qn^a u² p^a n² u c l³k
 gn n²u| ſ²v² u² p² rñ0 C v²4v² pgrgo h rgi gmgp o² tgi xqrv u^a o^a tc. co gn { gv
 c fqi o cvk o wu gmgp u| gf gw u co gn { gn c xku| qp { miqu^a i k^a pvk² t² /
 ngv cnetv² p³o ci^a dcp. o kp v cmu²» o wpn²tc x^a i { > r qrkknudcp
² dtgpvctvpl0 O gi i { | f²u²gn jkf gwg. jqi { ëc i { c nqtrevk r qrkknwv
² u c| gr² rvgk^a mco vcp o xgn l²v c n²4pp { u| gttgn² 3²u| gqo n< kf gqni l²m
 gihqi cf^a u² pcm xgu| gf gr²v n eucm c pci { 3²u| gh² i² ugm v²4v² pgr k
 u| go r rvgv o gpvu² ſ²ij gv co gn { o gi vcp² v dgpp² pngv cttc. jqi { c r qrk/
 vne o gpp { kg tgrv² k² u jqi { c nqtul gngv. c xku| qp { qm² u n²4 Àr² p { gm
 x^a nq|^a u² xcn o gpp { kg o gi x^a nq| pcm c f qm² ſ²p^a m ku0 Mqt c h²Àr² i^a w²n
 ngl f xg n²u| Àv t^a. jqi { v²4v² pgk o wpn²nev ſ²0 Gi { km k² gp hvcmtk
 n²u² rvg² t n o clf c rgi n²4 grddkndgp dgu^a o qnwpn0 Fg c v²4v² p²u|
 cmmqt ugo cmf v gn dgppg. co knqt ^a mco h²thk^a vgx² ngp { u² i² xgn² u pgo

wqn» uqtdcp vnf xcn o^at o c i c ku v⁴v²pgm gv hqto^an0 O²i 3;49/dgp ku hqi rcmu|vcw c i qpfqrcv jqi { o clf gi {u|gt. jc c| kf o gi gpi gfk n¹2 tngvgv vgu| rñ0 c ZKZ0 u^a|cf r^atw⁴v²pgv²pgm o gi ¹u^atc0 H rgi c j cp {cv» nqtqm ²tf gngn²nc c pgo|gk jkd^anev cnetvc vcpw^a/ p{q|pk jqi { gl gngv n⁴v⁴m vnf p gnu uqtdcp c vgtxu|gt vgp²i gk n⁴kgvng|gvu pgo|gpgxgf ugn nkt²v cuuc0 è| rvgv pgm gi {kn h v⁴gm² x²ug ô ¹lc n⁴u dd ô . jqi { n⁴v²ngv²pn² n c vgtxu|gt vgp²i nkt²v²u^a n⁴tgo n⁴lgo 0 U c| ²tf gngv²i cddcp xcp. jqi { o^at h²cvn nqt^a/ dcp ô ¹{ c vnf²qo tc gnu|gf gw h⁴gdgp ku ô o²i eum c v⁴v²/ pgr k n⁴tf²ugm ²tf gnm² co gn²gm vcpw^ap{q|^auc t²x²p c o^aAv u|kpv o ci^aqn ³u|gnr euq²f km c lgrppgn u k^ap{v lgr⁴n c l³kg tg p²|xg0 O^at nmt ku ²ngu u|go o gn h⁴{gk c| cpcn²i lgrpp²i gngv0 f u|q/ dcp h⁴gdgp xcp gi { nkgdd vcpw^ap{c< Rqrlk²ck o gi lgi {/2/ ugr c/ ftr^afntk v⁴v²pgv²g/0 G|v n⁴v²nci eum c o c i c u^ao^atc ¹vc< vnf pgo ku i qpfqrv t^a. jqi { kf gi gp u|go xcrcj c dgrvgn²kv²g0 W³pc ngo^auqrlc Fcpv Fk²pc Eqo o gfk/l^ad>n qrcu| p{gk²gp c Hcp/ eguec fc Tko kpk grk>fv *X0 95ô 3640< pgo ku wf p^ao grf³pv²pk o k xqrv xng c e²rlc. c p{gk²gp cnetvc/g ¹u^a n⁴dgp vcpw²pk xci { ô co k ¹pk u|gtgv go dgtgp²n i {cnetcp gn hqtf vn ô c| gu|v²kn² ²kg/ |gvgv cnetvc/g c rnu²o gpgv. gl gugvdp u|kpv ncn²i tch²kwupcm p²gxl/ jgv r²u^aucn hqnu|pkA W³pc ngo^auqrlc c| cmn²tk qu|v^am dgn⁴{/ o kplu|gt 3;280 o^ateku 90k dgu|²f²pgm d²gxl gv²u²v. dk qp^atc c x^a/ rnu|v²k lqi t>n u|»» t²u|rvgm o kv0 O clf gi { vgtxgl gv n⁴kgvng| kn jqi {cp rgi gvg c Lw²p/gi {gu⁴ngv dk vqucdd crcr qntc hgm²pk ²u o gu|g^ai c|>ddcp n²r²g²pk0 C| gu|o gh²wc²u n⁴u dd o go qtcpf wo o^a ngtgng²km u o kpv kn²gppgn o clf c o c i c jgn²p hqi rcmu| v²pn0 Gi { vx^addk lgi {gveuo> c pgo|gk ²u pgo|gk²i k v⁴gm²ugndgp o wcv/ nu|> v⁴x²p{u|gt u²i gnt n gm²mgf kn0 W³pc ku²v c Lw²p/gi {gu⁴ ngv gl nep{ctqf km xku|c u h²rk^a|qrlc c rgi n⁴g²ddk kum²nu|gtxgl²u rti q tco o l^av0 C lgrp w²p c o^aAv n⁴kgvng| kn c gi { pci {qdd v⁴v²pgk f qn|q|cv vgtxg0 C e²g ngw xqpc< C o c i c t pgo|gv^ancn c xcw^atk d²n²v n c u|cv o^atk d²n²i n⁴ku²ttqw u|gtxgl vgn0 Gi {gn tg h rgi Ce²f { ²u Rcwgt o w²nl kd>n cp{ci qv u|gf gw ³u|g. x^a|qnc c f qn|q|cv dg/ qu|v²v n⁴go gng c h dd u|go rqp²qnc0 T³4 v⁴p gl w²p c v²tuc cr k nk^arcu|v²ut>n gm²mgf kn0 G| c n⁴tf²u o^at dgr²pk gi {gvgo k jcmi cv» nqt^adcp ²tf gngng. n⁴u dd. o kpv n⁴qmc²u⁴i {k o kplu|gt. o clf ekmgv ¹t>rc0 |tf gngu. jqi { o k o kpf gp hqt r²lj gppk pgo wf> ci {^a/ dcp# W³pc ucl^au²i qu lgi {gveuo> n⁴kgvng| kn Qu|v^am gu|o gv³4g/ f²le Dkpgtv o kplu|gt gp³ppgm c| wcm j^a/^adcp 3;2;0 paxgo dgt 3;0^ap wtvqw dgu|²f²d n0 X^allqp o kg cnetvc g|v n⁴u dd h²g²cu|p^apkA O clf

kuo^{2v} gi {²pk lgi { | gvgmκ Ucl^av gu/o²ko. r^atjw/co qm Oci {ctqtu/^ai
²u c o ci {ctt^ai pgo/gvk²u pgo/gvk²ik v⁴v²pg²j g/0 G hgrlgi { | ²ugm j co c/
 tqcup o gi ul cnef pcn0

O kpf gl gi { gwgp h³gv co gn { dg Mrgdgnudgti 3; 276 3; 2; n³4³4v
 qrxcuo^a p {ckv i qpf qrvckv: vgtxgl i g²uglv vcr^aqo tc dg lgi { | gl v⁰ Wi { cp/
 gmmqt o²i o^a u j cuqpn» hgrlgi { | ²ugmku v³o gi² xgnngrgvngl vgn0

U xqncm gi {²d qrxcuo^a p {ck co gn { gnd n eucm tkn^ap eulp^anv
 lgi { | gvgngv0 i { ^amcpf » cp qrxcuqwn n³4v nrv0 f ncr^adep c | xqrv c
 o gi i { | f²ug. jqi { n³4v k qrxcuo^a p {qm p²mn^an c r^argm nku^a tcf0
 C p²o gv ktqfcmo d » n h rgi c ft^a o^a m²tf gngn² n0 Uej kngt Fqp Ectnu/
 C d » n nk ku lgi { | gw o ci^a pcm p²j^ap { i qpf qrvv0 Uej kngt o gngw
 pci { qp ul gtgwg I qgvj g/v²u Tlej^atf Y ci pgt/v0 Fg rgi lqddcp ul gtgwg.
 o kpf gpgm h³4³ jgnl gl v² c o ci {ct j c | chku rfi^av0 Gppgm ul² r^ai glxgn
 pgo wfwqwg dgvrp0 D³Äu n³p j kfgwg. jqi { | gddgp c o hldcp o k
 xgl gv^apn0 Fg o gi h³ gv^am c | ^at^a v³ v⁴v²pgm Äpm v^ap { qo » t²u² dgp
 c r^av²u pgo / r^av o gtgf² n²tg^a nfi^axc. o gi pgo ul p. xci { eucm t³4k
 r kj gp ngv gpi gf m³ l³ kugm n³4³4v c pgo | gv²u n³4v k n³p { vrgpgm
 xqncm c j c | c Äi {²p gm² mgf pk u c xgrg ner euqrvqu² t² ugnpgm
 j cpi qv cf pk0 M³Äp³4gp² tf gngn² m c tghqto / nqtul cm n³4v k ëc pci {
²dtgul v m0 C rgi o² n² gddgp vcr^a p o²i ku X³4³4o ctv^a j cqv t^a. nk v n
 n³u dd ku ul f³kgupp kf² | gw ekmgkdp0 U pgo wfwqwg cpp { k o wpn^alc
 rppk jqi { c n³4v npgm ku pg lwccuqpw kfgl² d n0 3; 4: p { ct^a p r^ao
 cnefv p²j^ap { pcr k r kj gp lg0 Gmmqt X³4³4o ctv^a ëngl² dg ner cu^a nqf kn^a
 jqi { c | gtgl² xgn pci { qdd o ci cur^a i qndc go gmgl² m u c r^a v^atf² ugn^a
 jgl o²n » v³ xrvd » n ul go r^arlg c rgi hqvqucdd o ci {ct rtqdr^a o^a nev0
 Xcvgugkpn²n gi {²dn²pv wi { cpcttc c nfi^a » n³tf² u/v³o gi tg ngtgwg
 c o gi p { wi v³ » hgrngv^a co kg c v³4² pgrgo dgp0 ëOk o ci {ctqm ô
 f³lc² rvg wqn » ul cneu^a dcp ô cddcp c i {³p {³4 jgnl gvdgp
 xci { wpm jqi { j c | chku rfi^a pm rgi ul gdd vgo² ngl d n n³4p { ul gttgn
³4ul g^a nfi^a j cwpm qn { cp pgo | gw r^a ul vqtrgxngngv. co gn { gm grki c | qf^a uv
 p { Ävj cvp^a pcm c o ck pgo | gf² m ul^a o^a tc ku c | qtul^a i pci { ²rgv^atf²/
 uglpgm o gi f³ r^a u² j gl 0 C | v xcmqwc. jqi { c n³4v m c o ci {ct p²rgv. c
 o ci {ct² rvgv. c o ci {ct rgnku² i gv²u² rrgp gl² tv c r qikknck kic | u^a/
 i qnev ku j cvm cu v³ xrvd » n lqddcp r^a v^a m o lvp c o kpf gppcr k² rvg
 | ukxcl^a dcp dgppg²n r riksnuqn0 | rrgp gl² tv ngm c | w » ddenpcm
 co gpp { kdp gl v c pngxv o gi² tf go gpk cnet^a m wcpw^a i qn^a tv^a mcp/
 f » cp j q | ^a lwm | ct^a pf qnqpkwn0 G vgnkpv^a dgp pgo vgw nk² vgn
 Cf { xcn ugo. cnk n³4Än pgo cnetv o gi ul ppk c xkcvn^a | ^a u0 Mrgdgnudgti.
 d^a t Cf { ul ki qtÄ ntkmw^a pcm T^a nquk Igp pgm pci { v^a ul vgn lg xqrv
 pgo eucm² ul tngxwg. jcpgo j kfgwg ku Cf { n³4v k pci { u^a i^a v²u dqtÄu

j c| chuf^a u0 Gi {u| gt c rctico gpdgp nldgrpvgw< ë" tÄpÄpm ngm
j qi { Cf { c o kgn# Pci { xqmc o gi t³n⁴p { ³f²u00

C| qrcf^a u o grgw o^a ukn pgxgl ggu hqt^a uc xqrv vrcu| vrcvcpem
wf^a u^a pcm c| wc|^a u0 Wc|^a uk u| gpxgf² n| g o² i hcvn nqt^a d>n u|^a t/
o c| kn0 Jc vjgwg. Ätc ngtgnfgw u v³dd p² o gvqtu^a i k Äl^a v pgo
u|^a o fxc. o gi hqtfwv Gw>r c uqm pgxgl ggu rqp^a p0 J qi { o kn³ pv
n³ u| Äv hgn gi {/gi { Äl^a tc u o gpp { kg o kpf gpv c o ci { ct n³ tf² ugn³ g
xqpcvml| vxc. o kn| gp crt> n³ qu hki { grgo o gn xk³ u^a n^a v c ppcm
u| go n³ ngv² u² tg t³ k³ f gp luo gtvggo gi { km hcvcmqt k wkp^a r n/ v³4g/
f² n³ v0

3; 24/dgp xci { wpn0 Mrgdnudgti 49² xgu0 Rcpul nqf km j qi {
o² i p^a tqp ku pci { qp uqm fqi c xqrv c j kxcvndcp u f| { pgo n³ u| Äv/
j gvgw hgn ngm cncr qu^a i i cn c| Ätc0 C vgxgl gw Äk^a p| xqmc I ³4³4/
qtu^a i. Mjpuvcp^a r qn|. Hngvg/vpi gt. CnF wpc. Tqo^a plc0 Ci i > f km
j qi { c o gi hngn gn n³ u| Ägv j k³ p { c o kcw pgo wflc o clf c vrcu|/
vrcv| u| gt|² utg n| p^a m| » cmcm cncv vnlgu o² t² v nldgp n³ j cu| p^a r k<
*Mjpuvcp^a r qn| xc> u| f p n³ i pci { tgl² n³ hqi gn wgo o c tcf pk=
pgo luo gtgo c dk^a pek dktqf cmqo. ugo c v³4³4m j > f f³ u v³4² pgv² v0
V³4² pgv v² n³ r p² mÄn wc|^a u v³4² pgv p² mÄn pgo² t ugo o k0 Eucm
c| | cn wflc o ci^a v xli cu| vcpk j qi { c| gn vcpw^a p { qm j k³ p { qu^a i^a /
pcm pgo c| n wuc^a i c. jcpgo c j kxcv n xqrv c| qnc. co gn| o² i p^a /
tqp ku uqm| qt guki k² p { dg xgw0 äP go rcpul nqf qo² tv. gl ugo
xqmvn³ tdc xgu| gwkf . v³ n³ p j cu| p^a nco xcrc o knxgugvj c|^a o pcm0

Rqpvcup nkr:mvw grxgk xcppcm ettc xqpcvml| » rci. j qi { cp
ngm wc| pl0 äO k f gp wc|^a u j^a tqo t² u| d n ngm j qi {^a nldp< c| gn/
vcpw^a p { qnd>n o ci^a d>n c| Ad>n u c| w> vcpw^a p { qnd> rñ G|
cmcmqo o en u| gt| kvg c| gn vcpw^a p { qm c pci { grhqi rcm^a i o kcw
ëtquu| wñ ukngt Ängn0 Fg o kxgn pgo xqrv Mrgdnudgti o gi gr³ i gf xgA
äDwtenj ctf v i ³4³4 o xgn f² u v³4² pgv² d n eucm n³ v n³4 gvgv wfwc0
dghgl| pk c jcto cf km o gn| o^a t o gi lgrpv. pqxgo dtgtg o c tcf0
Ewtvku pci { o x² dgp crki lwqvc o gn c f> t x^a pf qtr^a uli = c j k³ p { v
gi { p² o gv n³4² r kunqck vcpn³ p { xxgn r> v nco 0 Eucm c ppcm ³4 Än u
c| | cn xli cu| vcn³ f km j qi { gff ki k Älcp n³ v k o^a t o gi vcpw< ëu gl
ugo qn| cp n³4 pp|. o kpv uqncp i qpf qn^a nñ C| v tgo² rk j qi { c jcto cf km
u| cncu|. c n³ tf² ugm w> rci qu vcpw^a p { q|^a uc. o clf | cxtvrcpdd
ngu| u f| { cncr qucddcp ukngt Är0

Lnggo| . j qi { o gi hki { gr³ ugldgp vÄp { qo > t² u| v c r qrk kck u| go /
r qpvcnev go grk nñ0 C nctul vqn³ p^a vgl gv xcu Äxqpcn² r f³ u² pgm
pgj² | u² i gk u|^a o^a tc c ppcm c| Äp^a cm i { ³4 t gm glv u| lo dqrk^a r^a m
o gn| gv c o ci { ctu^a i pcm o gi nngw vpplg. co f| c Fwpcô Vlu| c

rctvckw n grlwqw c vpi gti 0 Fcm^aek^v Oci {ctqtu^aijq| cnetlc
 eucvqpk< gi {^ancr^p pgo lⁿ c f²n/u^rfx grgo o gi u|crqtq^au^wn
 o gtv o gi i { | f²ug. jqi { c o ci {ctuⁱ grd^llc glv c pgo |gw²i/
 v³ddngvy ku0 Co knqt Hk²dcp c Ngxcpvg u^ao^atc grpf^lqw o ci {ct
^atwn dgtcn^uc o kew j²v »^av n²ukm c| kpf w^u u |^lxgugp j q| c o gi c|
^arfq| cvq j ku| gp c o ci {ct ngtgungf grgo ²tfgn^gk n^lk^ap^vm glv ^l{ 0
 Rqrk^knek u| go r²ngvo »^lv o wv^{lc} c| ku. jqi { Av^{lc} uqt^ap o kpf gph^r
 u| qti cm cucp ngtguk c t²ik Xgrpeg o n³4²u²pgm p{qo ck< eXgrpe²v.
 o kp^v o nkpeugv c rci ^lAp^am n³4³4^w. o kp^v ²ngvt u rqrk^knek vugv. o kp^v
^amco qv o kp^v xk^li rqrk^knek v²p{gl v eum c Nexcpgp ngv o gi ku/
 o gtpk^l C Dem^lppcn nreucv^{dc}p o gi^a mcr^llc. jqi { o k^lgp uclp^a/
 r^vqcp ngxgugv h^li r^mq| wpm c ucl^avu dem^lpk n^ltf²ugm^gk k^lpn^ldd
 eum dgu²n^lpm xk^li rqrk^knek j k^cv^uwpnt »n xcn^la^ldcp c| qpdcp c
 xku| qp{qnev ngx²u^r2 kuo gl^lAm u c| k^ap{^luv o²i qw ku. cjqn cm^{en}
 o wpm rppg c dgru^l »^rutc. ^avpi gl^lAm u| kpvg v^lgu o²t^vndgp c
 n³4³4^o o k^lku^l v²tkwo pcn^l o ci c Dem^lpqp h^lgi c pgo |gw²ik n^lt/
 f²uv cnetlc v^lpw^ap{q|pk^l Eum uclp^apk ngv. jqi { k^lgx^a » w^l
 lgi { |gvk o^at pgo o ctf^vcm t^apm= v^lrp pgo ku xq^v k^lglg. jqi {
 rcr k^lqtc xgu^g ng^lo

Ku²vgo ²u Ad »n ku²vgo < cnk g h^lcvm^qtk ²u n²u ddk n^l| k^lcvqu
 cp{ci t »n pgo xgu^l w^lqo^auv c| pgo ku^lgtjgk o gi c| k^lc|k Mrgdgn/
 dgti g^lo U| kpvg gm^r|g^lgv^ggp. o k o k^lgp xcp g u|gt²p{. u| go²to gu
 h^ll g^lvndgp^lo U n²u dd o gpp{k o k^lgp tcl|qw nk dgn n^lan# Gi {gn tg
 pci c x^anq|cvqu^ai. c vtne^ui = gu r^kpcv^{lc} c| ngv c dgp{qo^a/
 uwpm jqi { Mrgdgn^ldgti o²i pgo xgw k^ap{^lo M³4grddt n c f^lq^li
 o²n²tg v^lnpvxg c| qpdcp j^cv^lq|qwcp o gi^a mcr^llcw. jqi { Mrgdgn/
 dgti gv ²ngv gm u|cne^u^adcp. co gn^l nd^lo m^lw^lu^l/^amco v^lkn^ltu^ai^axcn
 |^atwn rg. h^lgi c pgo |gw²ik n^ltf²u ²tfgn^gng^lo G^lv n^lk^apvc v^lrg gi {²d/
 n²pv jk^cw^lrk o w^lnlc ku0 Fg o k o k^lgp nreucv^lq^w dgrg gddg c
 dqp{q^wv uqtu/n^ltf²udg# Gi {km ngi h^lpv^lq^ldd t²u|g xq^v r^lo c| k^lu^lrc/
 n^ltf²u. v^li cddcp o gi l^lgr³4^g< c m^lw^lArqrk^kne0 C n²u ddk pgo |gv^l
 = p^lgxgn gl^lndgp c| ²xgn^lgp l^atc nk w^lcl^lq^ln^lr^lgp^k ²ngj k^cv^lu^lpcm
 o ci cu k^lu^lq^ll^ao

Mrgdgn^ldgti H^lcvn^li c c o k^lngppkwo k ²xgn^lg gugw u jk^cv^luwf^lvc
²r^lrgp c| c^lw c 38 ²x c^lw dqp^lv^lq^lw nk co knqt c o ci {ct rctn/
 o gpv c| qd^lutw^lek » u³4p{ d^lvgi u²ig o kew v^lgo²ngp{ o w^lnlv eum
 gn²wg w^lq^w x²i gl^lpk^lo U c x²i |gv^lu c| xq^v jqi { gi {k^lgl ngi c|
 gw^l » rck rqrk^kndcp qn{cp x^anq|^auqm o g^lvgm x²i dg. co gn{gm o kp^lvgi
 gn tg gr³4³4²m Oci {ctqtu^ai n²u ddk uqtu^ao C n^lqtu^lcm gi {km
 l^lgu nt » p^lkn^luc o gi^a mcr^llc. jqi { g x^anq|^auqndcp c xk^li j^adqtA

o^at gn t_gx_gv_gw_g n¹2¹t_vg_vg_vu h¹p²v⁰ C o ci {ct n¹r x_lu_gn j^a| c| q_pd_cp
o k_pf_gd_d n l¹h¹t_o a^p u_go o_kv u_go x_gw²u_tg[<]c h_ki {g_ro g_v c r^at_y c_te_qm
v_t| u_cm_uf^a u_qm n¹4³4²m n_g0 C| k i c| k u_tf³4_pv n¹2¹f²u_gm x_ku_l| j_cp_i l^av
c n¹u d_kp_go | g²f²m_j k¹ d_c n_gt_gu² c| c_mn_ut_kn¹r x_lu_gn j^a| k_pc_r n¹d_cp₀

U c j_ct_e g_nu u_td_cp. n¹4³x_gv_gp_Ān x_ci { n¹4³x_gv_g w_rc_lf_qp_n¹r_rg_p
c f_wr_k o_wu. k_ng_v r_gi c o_qp_te_jk_c g_ng_p h_qn¹v⁰ C u²l²r_gu_gd_d o_ci {ct
n¹4³x²r_go²p { k i c| k ě_pg_o | g_wk¹ r_qr_kk_n¹p_cm e_uc_m c| v v_gn_kp_vg_w. c_o k c|
-ě^a v_uq_u n¹4³4²i g_ng_p k^ap {w_n0 P_go x_gw_g ²u_tg. j_qi { C_wu_tk. c
f_wr_k o_wu ²u c p²o_gv u³4_gu²i x²f d_wt_nq_rw_c p²m_Ān c p_go | g_wk²i k
v⁴4_gn²u_gm c p_go | g_wk o_ci {ct^a n_eo_qv u²4_dd_cp_y c_v^a n₀ C| g_i {k_n
o²n¹g_dd_gp n¹w n_ut^vtu n¹u d_d d_qt_qi x^c n_cr¹l_c o_gi < ě_c o_ci {ct/
u¹i p_cm o_kp_fg_p ²t_fg_g c| q_ul^a v^a n_o c i {ct p_ci {j_cv_cn_uo h_ep_po c_te_f^a u¹/
j_ql² u_gt_gl² p_gm n_up_lg_tx^a n¹u¹ j_ql h | f³4_w ô u c| c p_go | g²f²m c_og_n
O_ci {ct_qt_u^ai r_qr_kk_n¹c_k u_tt^av g_dd_gp c| k_f u_l c_nd_cp k_p^v | v_g ²u c_og_n
c o_qp_te_jk_c g_tg_l²v p_go g_t u¹g_wg. f_g i {g_pi¹g_wg. c_nk¹ o_gp_yg_v h_gn
c_oc x^af c_nn j_qi { x_cm x_qn_w j_qi { n¹4³p_lg_ro g_p v_gw_g n_qe_n¹t_c ²r_gv_dg/
x^ai» p_ci { ²t_fg_gk_v u_qm_n n_ku_gd_d h_qp_vq_u^ai Ā e²q_m n_gf^x²2^v ²u j_qi {
v^Ān¹i q_u g_rl_k c_nq_f q_w^ai^a d_cp p_go n¹w_c x_kn¹i q_uc_p O_ci {ct_qt_u^ai
j_gn¹ | g^v ²u c| q_ne_v c x_gu_l g_fg_m g_ng_v. c_og_n g_ng_v ²r_gu_gd_d u_lg_og_m c|
g_wt^ar_ck n¹y_c^v t_qp o^at c_mn_ut h_er_ku_o g_tj_gw_n0 C| g_n¹4³g_vw j_kd_c
c_pp^an p_ci {q_dd x_qn_w o_gt_v c r_ct_no g_pk j_ct_eq_m O_ci {ct_qt_u^ai q_p v^Ān/
p {q_o»c_p c j_cf_ug_tg_i g_v k_ng_v n¹2¹f²u_gn_dg_p p {k_k^a p_wn_cm o_gi ²u g_pp_gm
d_gu g_tg_l²v c r_gi n¹t^v n_up {c_dd_cp d_gh_qn¹ u_qm¹ n_u H_qp_vq_u x_qn_w c n_et_f/
d_ql_v u¹g_p. c |^a u¹ n¹m^a d^al_c. ô h | k j_ql |^a ô u_qm_n h_qp_vq_ud_d. o_kp_v
c d_gu g_t #

M¹u²i v_gr_gp. j_qi { g | c n_qt_u c_m n¹u¹ g_wg g_n c n_gw u o_qp_te_j k¹/
p_cm ô ě_c o_ci {ct^a n_eo_g u_l o_g e_uk_i c_j^a |^a p_cm¹ ô h_gr_dq_o n¹u¹ v u c v_kc_pq_pk
e_uq_pn_e q_tu^ai q_w0 U²r_rg_p g_l c p_go | g²f²m c_og_n. j_c u_lg_og x_ep c n¹v¹u_tc.
o^at o_gi^a n_cr¹j_cv_c x_qp_c c| q_tu^ai d_qo n¹u n_g| f_gk l_gi {g_k. ^am_q/
f_ql_qw j_ct_o k_pe_o k_nk» o_ci {c_tt»n u ^an_cn¹d_cp j_ci {o^a | q_uc_p p_ci { | q_n
n¹r | g_n²u_gm_n d^af¹q_w o_ci^a0 C_tt»n j_qi { c p_go | g_wk²i k n¹2¹f²u
n_ul c x²i | g^vĀ_m e_uc_m n_gx_gu_gn_pg_m x_qn_w u_gl_vg_n0 Ā_n0 C r_ct_no g_pv_gm
o_kp_v v_gu¹g_vp_gm v_wf_p n_gi n_gx²u_dd²0 C n_kx²v_gg_m n¹4² v_ct_ql_qw r_l0
c| k_lĀ= D_gv_gr_gp K_wx^ap. c_nk g_nu p_ci {q_dd_lg_rg_pv u²i r_qr_kk_n¹c_k d_gu²f_gk_v
u g_n c^a u_ck_v ²r_rg_p c p_go | g_wk²i k n¹2¹f²u_gp_gm u_lg_pv_gn_g0 3; 290^a r_t0
320²p v_ct_qw_c g_i {k_n d_gu²f²v c r_ct_no g_pv_dg_p0 C x_kc c p_go ^an_eo_k
k_un_qn¹m l_qi x_kl_qp {c_k»n u c n¹4²u²i k ²u h_er_gn_gl_gk p²r_vc_pĀ¹m l^at_cp_f»/
u¹i c_k»n u¹»n₀ D_gv_gr_gp g_v c| c_me_mo_v j_cu_lp^a n_c h_gn c_tt_c. j_qi { c|
q_n¹j k_tg_fg_p^v n_gr_gl_g | g₀ T^ao_wc_wq_w c t_qo^ap r_qr_kk_n¹c_i i_tg_ul¹g_k
l_gm_gi²g u d_gd_kq_p {Ā_qw_c. j_qi { g | c p_go | g_wk²i Ā_pm c| q_tu^ai n_gg_kv

t²u²p ëgn ul ¾ v²tucf cm kci. c|v²p mwn²ckci. 2u jc ngj gv p{grkrgi
kù gi {u²i gu vt²rgv n²k^ap cmv²pk ô vto²u²gvugp vx^addo gp
tgo²p{u²i gmgr⁰ C rgi pci {qdd xgu²gfgrgo c| xqiv jqi { ukngtgn
ul gf²v²m²k l²4f gv c o ci {ct n²d r⁰ v²x o²ckc. 3; 34/dgp. Dgv rgp
U²co quw^atv vtv gn cf^auv ëC/ qf²j gm d²vm^au²trf uck Oci {ct/
qtu^ai qp c/ ¾ w²gn» 2xdgp e²p o gr⁰ J^avdq²qpi cv» cfvqnev uqtqn hgr⁰

M²p{vgrp h²rgv²c n²tf²uv< n²r g²gm rgu²Ap²g pgo | gv²Ap² gi { v²nk²/
v²n²gu t²u²v ô j²ku²gp vt²rgv²Ap² 62' /t>n² u² 30542.222 o ci {ct>n
xqiv ul ># ô o²i o gi v²tpk o ci {ctpcmA Co k c| w²gn» ¾ 2xdgp c
d²vm²q²rknc vt²p v²4v²p. c| u²go²dgp c| g²tf²n²k o ci {ct v²tuc/
fcmo eu f²xgn gi {2tvm⁰ ëC| c pgo v²4 f³o u²i. c| c n²gvk h²vrk/
o wu. co gm²gn g² c v²tucfcmo Æ { xgl gv kdp. o kpv ic|fcu²ik m²w²/
t^aru² 2u r²q²rknc ul g²xg²gv²gdgp gi {n²fx gp p²|k c|v c r²|cu vx²ngp{/
u²i gv o gn²gv c tqo^apu²i n²4²rgv n²h²glv 2u co gm²gn c n²r q²tv<
n²u² {k⁰⁰ gi {2tvm⁰ c x²i h²gn²u²r²upcm k²fv» ul g²xg²gv t²gn²ck/
n²r v²ngp²i²xgr⁰ i Eucm g t²4k² ¾ 2x crw. t²u²dgp o ci {ct r²p|k²v/
|gv²m rctegm²» vx²ngp{u²i g n²4gv²o²p{gn²pv ku. ; 2.222 j²q²r
o g² ic|fcu²ik vt²rgv 2u 92.222 j²q²r g²tf²u²i o gpv^av q²r²j n²|tg⁰
Gi { igp²g^aek» crw c o ci {ctu²i gn h²q²lc xgu² {gp²k d²vm²l²pcm c
h²rv jc g² { o gi { vx^add# 3; 350 o^alw j» 70²p c| QOIG Æ²u²p
Dgv rgp luo²v l²rtgxgk c jctepi qv< ë0 0²4f t²gpi²uv² t²|gm c o ci {ct
l²4f v²rl^ap00

|xv²gf gm o²ck Dgv rgp c o²ncv o k²vi gi { ¾ ul gh²q²ic² t^ao wcv.
jqi { c pgo |gv²ik n²tf²udgp dgtg²gf²gn²v²Ap² c n²p{gr⁰gu h²q²o w²m
luo²v²u²t²g< g²|gn r²gn²v²Ap² c i q²f²q²v²tv 2u c r²q²rknc v²gv²gp/
u²i g⁰ C r²q²rknc c h²nu² {gp o q²iq²xc x²nu²p j²crfv gn c o ci {ct²rv
t²crk²uck o gn²w x²ku²q²v² 2²rv²j²cn² j²cteqnev x²k²q² r²u²cvn²t⁰
O gu²g gm²ep{ctq²q²w v²g^av U²ejgp{k K²x^ap²n cnk >xc k²vgw
dgp²Ap²ngv jqi { c| ki c|k dclqnev r²nk²ep{gr²g c t²g^aru² 2²rv²tf²gn²gv
c ul k^atx^ap{qu j²k²u²i qm qn^at^ap h²gn pg^arf q²|w⁰ O^at r²g²ki g²v euk²
p^anwn⁰ C n²4x²rgo²p{ n²p{gr⁰gu h²q²o w²lc ul g²tkpv c pgo |gv²ik
n²tf²u² r²gn²cpk r²tdi²o c r²w x²qpc< o k²fp²gv o gi n²gm cf²pk co k c
o ci {ct^anco²tf²ngmgn ¾ ul g²gi {g²v²gv. fg x²ku²q²v gn n²gm p{qo pk
o k²fp²gp g²gp v²no gp cur²k^aek⁰ Pgo cnc²wm²u²tgxppk jqi {
pgo |gv²4k x²ku²q²{rc²dp o^at p{v²n²tf²u²xqiv c x²gi {gu p{gr²
o ci {ct vt²rgv²m j²x^av²q²cpf>u²i^apcm Æ {g⁰ Fg m²4p²ugp pgo
x²gv²Ap²u²tg. jqi { c| g vt²rgv²ngp gi {Av²n m²4p²34 p²r²hclqm
j²gn²|gv pgo ul v²ku. j²cpgo f²l²pco knu u jqi { g j²gn²|gv c p²r²u²crq/
tq^auc ic|fcu²ik 2u ul q²ek²ru v²p{g² m j²cv²uc crw^ancp²>cp x^anq²kn⁰
U c o k n²tw²ntc x^anq²q²w r²g²ki o k r²gv²Ap²x²qpc c| v²cm²qf>.

cl^a mco cmq» pgo | gv u o kpngv x^a fqnem hqn{vqpuq c pgo | gku² i gm
 gp{qo^a u^a xci# Mf^a Āit n wfcwucp fqi q| vcm c o ci {ct jgn| gv i {gpi q/
 v² ug. cī^a u^a uc² tf gn² dgp < o ci {ct t² u| t n xku| qp v cki v² v² pv xcico k0
 M² dgp c| gi {gu p² r hclqm n² 3/4w hqn{v c | clvcrp. fg² r² gv/gj cī^a itc
 o gp m² fgrgo. ěxcn^a u^a i qu n² 3/4 u^a tqm j cte. co gn{dgp j c c| gi {km
 l² n o kpf gp pcr eucm gi { j Āxgn{np{kv gi { ctcul p{kv ku xgu| kv gi { l² n
 2 xul^a | cf cīw o kpf gp i {3p{3/4 ru| lej qn> i kck ngl gr² u o gm² gw ku c
 vgt Āngv xgu| v l² n x² i rgi gu eucv xgu| vgu² r² v0 Ok gnkgul vgw Ām c
 euc² v# .. wgp² xgv gm wcu| vqwpm u c| gni| ciru| vqw kf o^a t v² d²
 pgo v² t xku| c0 i P² | Āpm n² 4 Ān ô h | k o² i j q|^a Dgv r² gp ô j c v² /
 tclpnq0 J c eucm gi { u^a | cf t² u² v cm² c| w m xqpc 3: 89 »x c| qm
 pcm c j ctek gu n² 4 3/4 p gm co gn{gm c vku vgu² i i gn c lqi tgp f f gn² u c|
 gi {gnp gn^a p^a u gn² xgn 3/4 u| ggi {g| vgv m Āi { 3; 36/dgp c pgo | gv/
 u² i k n² t² u r² p{gi² dgp o gi r² gw xqpc qf xc² u u| qo u² f c l p m pcm cki
 r² gw xqpc² t f go gu j^a dqt Āv ngl fgp k0 Gj gn{gw o c Āi {^a mwp m c xk^a i
 gn w o kpv c p² r gm gp{qo »k cnkngv eucm c n² t f go gn d Āpv² u² t v
 w» k0 q| { eucm qn{cp p² r l^a t j cv. co gn{pgm c|² r² gv t c r k^a uck k^a p v
 n² x² u c|² t² n² g. co gn{pgm k^a v nki gpe^a l c n² r gu ej k o g t^a m w^a p u c r c f /
 i^a r p k 00

Dgv r² gp² u Mrgdgn dgti p² gxg 3/4 u| g hji hq» f p k c o ci {ct v² 4 v² /
 p r go dgp. m n² wgp r² u| p gm c o ci {ct r q r k n w u q m n² 4 Ān c v k c p q p k
 n² t u| c m gt i { l v u| c n e u^a p e m c u q n e v i Ā p { q i v² u k i c| u^a i v c r p
 x^a f c m e n g r j c i o q| q w ě n p u| q i f^a e l o p e m^a x g l² t c r n i c k 0 F g o^a t² x v k g /
 f g m n c| g n w ô v c i p gi { o^a u > n o k p f g p v r q p v c u d d e p p g o k u
 w f x c ô gi { Ā v f q i q| v c m j k u| g p² r r g p c r g i n e t f k^a r u c d d r q p v p. u
 p e i { l^a d e p c| q p q u g n i q p f q i u c n r t > d^a n² m o g i n² 4 g r f g p k c r g i h q p v /
 u c d d o c i { c t r² v i t² u o g i q i f^a u^a v 0 D g v r² g p v c i p p g o k u u g l v g w.
 j q i { c o q i c n² 4 x² r g o² p { v c n e t v e h r^a | p k c o k p k u| v t g n² 4 m² i
 gi { km qu| v² n^a p c| gi { km h e v c n v k u| v k u g n p e i { l^a d e p o^a t n k k u f q i q| v c
 c e u c v g t x g v. c r² p { g i g u r q p v q n p c| 3/4² j g| g t u g p j c u q p n» g n i q p f q /
 r² u c r 0 C o k n q t D g v r² g p c n² u d d c p p { k e j f² g u² r g w g n u d g u l² f² v
 g n o p f v c. M r g d g n d g t i Y g n g t r g U p f q t p e m r t > d^a n v c p^a e u q n e v c f p k
 c p g o | g k u² i k n² t² u n g l g r² u² t g x q p c v u| » k A i 0 P g h r g l w Ā m g n j q i {
 H g t g p e H g t f k^a p f v² 4 g n² u g k g m n q t o^a t t² u| d g p k u o g t g v g u g m x q n e m u
 d g^a t p { 2 n q n^a m o² i c j f² g u o c i { c t q r v o k o w u v k u 0 M r g d g n d g t i o g i /
 h g u q| v g w g t x g n v p w o^a p { q| c c n² t² u 0 C | g n x g m v k u| v² |^a u c e² r^a d > n
 ô gi { km n² u d d k x e m q o^a u c u| g t k p v ô v² 4 d g m n² 4 3/4 v² l l g n p c r r c n
 G² 3/4 x² 3/4 L > | u g h p g o | g k u² i g k o x g v h q t i c w c 0 .. u| v² p² 3/4 u g p o g i u g l v g w.
 j q i { g n² 4 g v c| k f . c o k n q t o c l f c o q p t e j k c x² f d w t n e p² m Ā n n g m
 u q t u w p n e n u| g o d g p² | p Ā p n 0 U Ā p v r g p Ā n c| q p v² 4 v g c h g l² v j q i { c p

ngj gypg hgrj cul p^a rpk c uqtup{Áxqvc jcrxf² nqv u c o ci {ctuⁱ i qv
 cpp{krc o gi gt u^hgpk jqi { c f³/pv rknpcvdc c hgp{gi gv xgu/g/
 fgrgo h^h4^h ngtgnfjgu²n0 Co knqt n^h4^hÁw^hg cpp{kcp h^hrtgkuo gt^vm c
 n^htf²u n^hp{gi²v. ô n^hxgugmgn gi {Áw ô xul^vp²u o guu/g n^hqv0
 C| ki c|. jqi { tjgn²t n o kpf gp hqpvqucdd o q|cpcqv o gi h^hi {gn/
 jgvgw u ^hi { grxg o gpvu^hxg xqn cw>n jqi { c pgo|gv h^hi {gm²v c
 n^hp{gi v nngtgn jco ku knÁ k^hmt²u gug rgi {gp0

Mrgdgnudgti c|qpdcp o^at cmmqt ku qr^vo krc xqn0 J kw²u tgo²nv.
 fg pgo c| knÁ k^hm jcpgo c u^ao qm c^hrl^ap0 Lgi { |gvkdep ³u^h g^h n^hlc
 c rgi hqpvqucdd cf^vqncv0 C o ci {ctuⁱ i n^hrgm^ha o c 3:72/dgp c| qu^h v^am
 p²r^ua o n^hrfu u|gtkp 60 34.222 xqn. 3;32/dgp r^hgkⁱ. co gn^hpgm p²r/
 u^ao n^hrfuk gtgf o²p{gkv Mrgdgnudgti qn^hcp u^hku^h qtpi xc x^atc :
 co gn^hpgm u^ao qu^h n^hrc h^h4^h jclqk^h ki {gn^h gw h^hrt^hcpk c o ci {ct
 l^h3^h jqtqu^hm^hr^hv o^at ;08;.2220 C o ci {ctuⁱ i vg^hv gi { h^hn^h|cf
 crw o gi n^hu^hgtg^h f³4^h o^hi c pgo|gv^hi gm xku qp{nci ngo c^hcf vnc^h
 8064.222/t n eum :0447.222/tg lwqvc m gn0 O²i o kpf ki ci icu^hv
 u^ao qm fg xk^hi qucp dgu^h2^hpgm ô^a n^hcn^h pqu^hi dcp ô c o ci {ctuⁱ i
 h^hnu ddu^hi gu²rgvgtg^h2^ht r0 U Mrgdgnudgti c|v ku dgrgu^ha o^hlc. jqi { c|
 go gm^hf²u c o ci {ct p²rk²u h^hlk gt m pci {o²tx grj cp{ci qn^huc
 o gngw n^h4^hgmg^h gw dg0 U|gtkpv g| h^hnu^h qw o²t^vm gi²u^hi gv lgrpv0
 U^ao^hlcw c| k^hv ô vgo²u^hgvugp c d²n^hu h^hln f²u n^hgv u^hi²v
 xgw crw n ô co knqt c M^htr^aqm o gf^hpe²l²dgp c h^hlk u^hwtgo^aelc
 ku grk^hcvj cvw^hcpw o ci {ct ngu^h0 G|v c h^hnc^ho cvv u|gtvgw xqpc
 gn ngn. go dgu^hi gu u|gn^ho dgp o gi i {qtu^hcpk cpp^an ku k^hn^hdd. o gtv
 o gi h^hi {grj gwg c| gi {gu pgo|gv^hi k^h v^h4^hd³m i {qtu xci {qpqu^hf^au^hv
 ic|fcu^hi k gt u^h4²u²v u c o^aukm qn^hcrp n^hvc c l^h o ci {ctqm uq^huq^hm
 gl²v. cnk c ic|fcu^hi k jgn|gv o k^hw o gi h^hgn u|qel^hku r^hqk^hnc
 j^hk^hp{^adcp x^apf qtdq^hv^hxqncm^hp{vgrpgmng^h Ándg xgppk00

Mrgdgnudgti i qpf qrcv c o ci c gi {u|gt u^hi²dgp o qpwo gp^hrkcp
 pci {xqpcn^h c o ci {ctuⁱ i qv ngn gt u^hgpk^h Gjjg| pgo eum lqi wpm
 xqn. fg g| n^hw xqpc c rgi ggo k^hd n^h4^hrgu^hi Ápn0 C xcn^hu^hi v>n xcn^h
 x²i|gvu grwi cul n^hf^audcp c/h^hvcn jkcvr^hqpm pgo xgw t²u^h0 M^hu dd
 uqncp u^hg^hgvugp o kp u^hgv^hm v h^hcvu^h v^hpcn0 |rrgp v cnk gi {ktg^hku
 xk^hi dcp ku tgp^hg^hgvugp^h Án o gi tk^hvg c xcn^hu^hi²t²n^h4^h Q^hrcuo^a/
 p{ckdcp. lgi { |gvkdep. cm^hkdc. c uvcu^h v^hnc u^ao qu^h n^hrc kdc o kp/
 fki c xcn^hu^hi qv ngtgug²u c xcn^hu^hi qv u|qri^anc0 N^hqv p²j^ap{cf/
 o ci^axcn ô r^h0 l^hpeu^h Dgpgf gmg^h gi {Áw ô c xcn^hu^hm n^h4³4^h tv^amv
 c o ci wnt^h o gi h^hngf n^hg^hgwm h^h4^h4^h0 X^allq o k^hgp n^hrgmgn u|go n^hn/
 jgwg o ci^ap{qu gn²mg^hf²ugk uq^ha p c h^hvcn v^hu^h v^hlgn. cnk jkcv^hnd^h
 uqnev n^hqv²u w^hq^ho²i c m^hku^ha m o³4³4^h v^h4^hv^hpvgn^h n ku. c| cmmqt

rctno gpvk rqrknc o gff u²i²v. c n³4 gx m pci {kfck euc³kv. c xcn/ dcp uqtuf³pv rtqdr^oa m gn n xcn» x²i | gvgu n³4xgng | o²p { o gi / hwco qf^auv. c rkf²tel³p { gm w³p xcn» hwnuq^auvA Gi²u | ngmkkf i c o^autc xqrv dgki c | x³c < c n³4 lqi k m³ fgr gm l²rtgvq^au²tc. u | qek^aru tghqto qmtc. cmuq³uqmtc. c pgo | gvk²i k n³tf²u j k gi gp v³ti { kci qu xk³ui^anv³tc. c n³Ar qrknc pci { hqvqu^ai A n³tf²ugkdp xcn» gro²n³g/ f²utg0 U | gtgpeu²tg o^at j kxcv^ap^an hqi xc ugo n³rjgvw cmuq² o²i²tkp³vgl²udg c pcrk rqrknc xcn u | { vgo²ngp { eugpf dgp | cxct/ vcrp cnf qn³ q | j cvq³0

G | gm w³p vgo²u | gvgu. j qi { Mrgdgnudgti i qpf qrcv³k^ai^av gddgp c | kf dgp v³ap { qo » t²u | v c pgo | gvk²i k n³tf²u vcpw³a p { q | a uc n³4³4vg ng0 M³ | kcvk lgi { | gvgk vrgk xcppcm kf gx^ai » cfvqm²n² u i qpf qrcv³q^am ner³0 U c | ²tfng³u c |. j qi { gnmq² ku. o kv n³u dd. co knqt mwn³Ar qrk³ n³lc cncr g³kv nk qn³ q | v. pgo eucm c o ci { ctqtu^ai k xku qp { qnev vt/ vqw u | go gn w. j cpgo u | kv³ 3⁴u | gj cuq³pf³ » cncr qp vcpw³a p { q | v c n³tf²uv. o gi^a ncr³ x^ap c v³4x²p { u | gt u²i gngv. c n³i v³knw³edd gug/ vngv. c nk²vngv uvd0 Go n³ | gw xgl²tg³o²lg. c o ci { ctu^ai gt u³ v²ug. cpp { ktc o ci cutgp² u^a v³qi » xqv³qi { | g | o kv x²i ki c n³i n³4³4/ d³4 dd vx²ngp { u²i k vt³ngvngp ku o gi o ctf j cvq³ x²i u e²mkv | ²u/ pgn0 J c c | qtu^ai vt³ngv c xk^ai j^a dqt A w³p o gi o ctf u Mrgdgn/ dgti Pci { / O ci { ctqtu^ai qp h³lv gvgw xqpc nk c | qto qn³ xgl gv vx²ngp { u²i gv. n³u²i vngp³ n³ o v³ncgtglg lcx^axcn o gi o ctf v xqpc vx^a ddtc c pgo | gvk²i k rtqdr^oc o gi q^au^ap^a n³ C o ci { ctu^ai gt u³ v²u²pgm c | qpdc c euq³nc qtu^ai dcp o^au xqv c | A³lc³lc mwn³Ar o ctf v c | gi | gv³ Av co gn³gv Vtkcpq rqn³nk nrgo²p { gu²i g ku u | cdf qp j ci { qw dk qp^atc cddc c h³ngx²udgp. j qi { c n³vr qtv. o kv gp³cr k xcn³u | n³4 pgo | vpgm³ A³l^at^au²tc o^at pgo n³u | n³fg²u²gtglg0

Ign³o | Mrgdgnudgti tg. j qi { i qpf qrcv³cpm ku v³ | a uc n³4 dgp gi { pgo | gvk²i r qrknc xgl²tn³4 { x nk qn³ q | a u^av xvgv vt³xdg0 Lgi { / | gvgk o wcv^am c vgx hqtq^ai^au^av. G t²u | n³gv c | ²tv n³u | ²tfgo gu n³4 g/ rddt n u | go A³ { tg xgp³Ap³m o gtv v³4gf²ngu i qpf qrcv³ o^at uqnev gn³ a^atwpcmc n³u | ddkn³Ar qrk³ud³n³

C | gi { gu p²re³q³vtqm ngmk w³l³q³u^aick n³4³4v Mrgdgnudgti v³p c n³i h³pv³quddcpm c o xgn f²uk n³r gu²i gv vt³lc0 U o^at cmuq² gi { h³to^ap h³pv³q³cm n³lc c v³4o gi²u c | gi²pgm o xgn f²uk n³u | / u²i²v0 M³u dd o clf gdd n c u | go n³rgv » f³d » n h³to^a n³fk³ nk c | gi { km n³i^ancp³ » dd rtqdr^o c n³4. co gn³ c euq³nc qtu^ai mwn³Ar ku² n³gv²pgm A³l^atgpf³ | ²v h³i n³mu | v³c < c o ci cu³dd o xgn²i² u c p²r qmc³ u u | ²v^a n³u | v³cv³cp gi { u²i g0 Xk^ai qucp n³lc. j qi { c pgo | gvk o v³nc | ³4²v u | A³m²i u | gt gp c | cn³dd t²v³gm n³u^am gn fg j cpi q | v³lc.

x^an^ouc0 \lej{ c| cmqt hqtqpi» 2u uqnev dqn{icvqw vlcrl/
 o wu nřtf²u²dgp c o lplu vtg³4nj 34 hqt²vw hgnkři quř^o uqř^ot^o
 C nřtf²utg Mřgdgndgti x^ancu qn< jcw^ocu vpw^oa p{c ¶ gntg
 ulgfvg ul²v c vlcrlu vkmw vgtxg|gv²ugngv0 \lej{ m^oř^op o gi/
 nř^o4 3pk c| 2²v²ngu cp{ci qv. èo gn{ qn{ r qo r^aucp o gt^ořk nk c nřtf²uv.
 jqi{ o²i c řgi o gi t³4 34gdd f²n|řx ug xqpc nř^ogu gmgpx²v²ugngv
 vppk 0 C vpw^oa p{ h řgi c|²tv²tfng^o. o gtv Mřgdgndgti c nřtf²u
 nř^o4²rrqp^oa dc g| cm^ořo o cn ku c o ci {ct^oři qv jgn{gl vř. cppcm gmg/
 p²tg. jqi{ c rtqdř^oc vto²ulgv²p²n hqi xc vř^op k^onř^odd dktqf cm k
 v^ox^ov^oř^onř^oř^opvxqpc0

G|v c řř^op{gu v²l²nq|qwf^oi qv Mřgdgndgti gm uqtdcp cppcm
 nř^o4 3pj gwg. jqi{ o^at cmqt ku. o lpv nř^odd o lpf gp gvgdgp. vř^o4²/
 pgk rgtur gmř^oa dc ^anř^oř^oqc dg c rtqdř^o ^anev0 O²i c pcr kř^o {gm g^oř^ov/
 |²u²p²n ku řgi gv řgi gn ulgfvg c t²i k uqnu|qt o²i c jgn{vctw^ovp^oeuk
 cm^oř^onev0 Gi {km xqn jkxcvř^oqm^otuc hgnř^o2|k c hlcvcn Mřgdgndgti neteu^o
 vř^o4²ngp{ c^ořnř^ov. co lpv t³4kř^oř^o» ulgo g^oř^o g| nř^o4 gnetwc c t²i k cm^o/
 nev. èc o ř^ov pci { cf o lplu v^avtclpcm cmq^ov ucl<»n o gt^oř^o l^oř^o k^oe^ov
 c lrgp vggpf k^oř^o g| 0 Ocic Mřgdgndgti o^at gmqt ku c|v c| g^oř^ogv xcn/
 ř^oqc. co kv nř^odd 3^oř^ov^o ulxcncl< èXcn^oř^oa dcp c vř^o4²vpggo pgo
 tgtqur gmř^ok. c o wncncl xku|cvgnkp nř^oř^oa peuk^oi euw^oa p. jcpgo
 jcw^ocu gtnř^o4euk gt. o gn{pgm jc kuo gtvg 2u ulgtvgvg c řgmgnl n
 nkx²ul. cmqt c pgo|gv qn{cp. o lpv c| go ř^ong| vř^o gw^oi²v xgu|vřw
 go dgt. cnk pgo qmw jcpgo qm^oř^opw n tqj cp c xgu|gf ggo dg. c
 xgu|v²dgi 0

C pgo|gw^oř^oi k nřtf²udgp ku r^atcvř^o v^ol²nq|qwf^oi^av. 2^oř^oř^ov^oř^ov
 pgo wqn» uqtdcp vř^o4²pgk vpw^oa p{clpcm nř^o4 3pj gvg0 M^oř^oř^oi/
 vř^ogp. jqi{ c řgi c^oř^oqucddcp vpw^oa p{q|vc c nřtf²uj g| x^ai» o qf gtp
 m^oř^oř^oř^o k kqf cm cv ku0 Gtg lgi {|gvkl n vř^o4dd dktq{ř^o2^onq^o řgi gvp g hgn/
 jqi pl0 Fg vř^oxqn ^anv v řg. jqi{ c m^oř^oř^oř^o k kqf cm^o nev^oi»tk^okv ul t³4/
 v nđ t³4v n cm^oř^oc|c c o ci {ct xku|qp{qntc0 Gi {km 2²v²ngu lgi {/
 |gv²dgp ð vř^op 3; 2; / d n ð pci {qp xkř^oi qucp hglk nk gttg xqpcv
 nř^o» ^anř^our qp^oa v< èC|. cnk qn{cp ulgtpeu²u. kř^oř^o c lrgp ulqo q^ot^o
 xku|qp{qm nř^o4 34v qn{cp ulgtpeu²vřp. jqi{ c o ci {ct ^am^oo k k|ci v^ou
 o ci cucdd hwpnek^okdcp t²ul vř^ogv k^oř^o i {cntcp vř^ocu|vřlc. jqi{
 o k^oř^o jgn{vřgp. |cxct». u v xgu|gf gm^ogu c rqrk^onc 2u c nř^o4 lqi vt²p
 c ì m^oř^oř^oř^o lgunř^o2^ou. c o lř^opm v n i {34ngt gugg gnř^ot nř^o4 xku|qp{qnd^on c
 m^oř^oř^oř^o k wf^oqo^ap{ ^ancn g^oř^oř^o hqi cm c^oř^oř^o c o k xku|qp{clpntc xcn»
 cm^oř^oc|^auc0 Tg^oř^oř^o 2u rgtu|qp^ař^oř^o. ul 34gv^oi^am^oo 2u ^am^oo/
 ul 34gv^oi. t²ul^am^oo uđ0 pgo o ci {ct rqrk^onek lrgpu²i gnt n cmq^ov
 hqi cm c^oř^o G| gngv vř^oi^av eum c řgi pci {qdd »xcv^oř^oi i cn c vř^o4²pgk

hɛln f²uv hki {gngɔ dg x²xg. o kɔvɛi { ʋ⁴ʋ²pgvk gmɛp t²u o gmɛw nɛj gv
 c o k xku qp{ckpntc cmɛm c|pk0 Wi {cpɛj| xqrv c hɛrhɛi^auc c pgo|gwk/
 u²i k rtqdr^o a^t»r0 G|v ugo nɛj gvgw u|gtkɔvg o gi hɛngn ʋ⁴ʋ²pgm k ɔpwn/
 o^ap{qm p²m³n r²p{gi²p²n o gi hɛi pk0 N^awm c pgo|gwk²i k n²ft²ut n
 vgtxgl gw n² kn³p{x p²j^ap{ ʋ⁴ʋ²ngū i qpf qrv⁰ C lmgō | c|. jqi {
 nɛj kn³p{x²v ku o gi hɛngn ʋ⁴ʋ²pgvk crrxgv²uugn cnetv u|k²tf nk²pf w⁰/
 rqpvc jgn|gl pk0 M³n³p ʋ⁴ʋ²pgvk t²u|v vgtxgl gw. co kv gi {²dn²pv
 gi {gvgō k o ci^apvc^atk²tvng²upgm u^ap0 C o w²n²j q| i { l³ʋ⁴w
 cp{ci. c| gi {gu nk²qi q|qw t²u|gm k²cvk n³ʋ⁴w t^apm o ctcfv⁰ C ʋ⁴
 tgf²ngm nɛj gv x² vgl km c| gi²u| o w²nc vgtx²pgm tgn²putw²r²u²v.
 C o e²ric c| nɛw xqpc. jqi { Mgdgn²dgti c o ci {ct o ⁰Ànd⁰n
 r^atqrlc nɛ c x^arcu|v n²v uqtuf³pv n²ft²u⁰Àpntg< c o ci {ct g²v pqu
 gtglg o gpp{kdgp vgl k nɛj gv x² c h³i i gv²pu²i i qpf qrv⁰pcm²tx²p{g/
 u²r²u²v nk²gr². h nɛj Cw|v²k xcn u|go dgp u o gpp{kdgp j²cv²tq|c o gi
 hclwpm jgn|g²v c| qtu^ai vgt²rg²p ncm⁰ kf gi gp p²rgmgn c pgo|gwk/
 u²i gmgn u|go dgpA Fg xqrv gi { ʋ³xq²ddk gr²rg²kd lmg²i e²mkv /
 |²ug ku< o gi cnetv xqpc^amer²ncpk c|qnev c ʋ⁴x²p{u|gt u²i gm²v.
 co gn|gm c p²rgm pgo|gwk²u pgo|gwk²i k ʋ⁴gn²ugk h³ʋ⁴w wcm²qf pcn0
 Gppgm o gi hɛngn gp o^at c ʋ⁴ʋ²pgvk crrxgv²u ku vctvc|qw xqpc
 dk qp{qu gr²rgk o gi^amer²nc²uqnev⁰ C u|qtqucdd²tvrgō dgp xgw
 ʋ⁴ʋ²pgvk t²u|v p²i { pci {qdd hɛj|gtg vgtxgl vɛ c n³ʋ⁴gvng| hɛn²q|²v ucn<
 30 K0 T^anɛ|k I {³ʋi { dwn²u²»n c K0 L⁰|ugh²r²ng³ʋu| dktqf cm k n²ft²/
 nɛv dwn²u²ki. 40 K0 N^r»v wcm²qf^au²»n 3: 6: /ki. 50 Xk²i qu²n c nɛj {g/
 |²uki. 60 c nɛj {g²u²n perlc²pnki 0 C u|ki qt²Àddcp xgw gr²rgk t²u|/
 dgp èc| k²pfvnc⁰ À^ap p{gtv ki c|u²i qnev n²i knɛk crrq qp euqrqtq/
 u²nci u^apf²n²q|qw ʋ²ti {cpk0 |tfngū i qpf qrvqm v²r²ij c²m c t^apn²
 o ctcfv gn u|vgtxgl g²dgp0 Mgdgn²dgti o gi^amer²nc. jqi {jc r²qk²knɛk
 wfqo^ap{ crrl^adep x²xg uci p^an o²l²lc r²qk²knɛk i {c²ntrev n²p{vgrp
 gn tg²ʋ⁴pk u dqp{q²ncddp^an dqp{q²ncdd hɛrc²cvqnev o gi q²rcpk0
 i { r²o ô uclpqu ô c| À0 p0 n²cu|knw r²qk²knɛ pgo h²i n²mq|km xci {
 nɛi c²ndd ku h²p²qu^ai^apcm o gi hɛngn o^a»fqp pgo h²i n²mq|km c pgo|gwk/
 u²i k n²ft²uugn j²q²w c i {c²ntrev r²qk²knɛ vgt²p gl c n²ft²u nɛw c
 ZKZ0 u^a|cf o^auq²km hɛr²pgm nɛi pci {qdd rtqdr^o l²c0 C| ki c|. jqi {
 c rwd²reku|vnc gttg c vgt²rg²v ku nk²gtlgu|vgw h²i {grō g . fg c
 rwd²reku|vnc pgo wfqo^ap{. jcpgo ô o^at cm²qt² { fgh²pk²nc /ô
 èvq²ncn xcn⁰ r²qk²knɛ^au²c0 C wfqo^ap{pcm g n²p{gu vgt²rg²v uq²mn
 o ci cucddtgp² hɛrc²cvk n²pp²pgm o k²v co k²gpgngv c rwd²reku|vnc
 gi {^anc²p x^amer²nc< o gi n²ng²pg xk²i i²ncpk c| ʋ⁴u|gu kf g^ai^a» n²ft/
 f²ugngv²u c|q²ncm gi {o^au²cn xcn⁰ ʋ⁴u|gh²i i²u²v0 P^an²pm c|qpdc² ô
 h|k jq|^a ô gl c rtqdr^o c ʋ^ap w c| ʋ³po ci^a2²tv xcn⁰ wfqo^ap{qu

nwc^v u 2tf gnglp= u^a o wntc gi {gpgugp 2rgwⁿtf²u. jqi { c pgo | gw^k u²i kr tqdr^o a xcno kpf gp ul go r qpw^dn^wku^l v^d dc l³4l¹Äpn0

J c c o gi o ctfv p {gtucp {ci qv 2u c| gi {gu nkf qn q| qw t²u| gngv n³4 grgddt n ul go Ä {tg xguu Äm n³4pp { o gi a mcr^lcpwpm jqi { c i { l/ v³4v cp {ci lgrgp^vngp { t²u| g c j qtx^av ul r^xp/ o ci {ct n³4tf²utg xqpcv nq| kn0 Gppgm o ci {ct^a |cvc o ci^a »n cf »f km^x cmmqt Mrgdgndgti gv c Lwr^k p/ gi {gu Ägv ki c | i cw^l v c Lwr^k p/ kunⁿ m ul gtxg| l²v 2u i qp/ fq| »l^a v h rgi gl c v^t Ägv 2tf gngng. gl v kuo gtv^g rgi lqddcp. j ku| gp c| kf gx^a i » r tqdr^o a mul kpv^g pcr qvc hji r^mq| v^w n0

V³4^v pgr^o k n^ll² trgvk^v h^ti cwc. 3⁴pn³ p {vgrp Än gu Äpn^lg 3⁴rkⁿ c| cmmqt^k r^qrkⁿ ^ 2rgvpm gi {kn nko ci cun» gi {2pk²i g< i t»h Cpf^t uu { I {w^o Cddcp n³4w² i vgrp Än j cuqpn^l qvc^m gi {o^a u j q|. jqi { o kpf/ ngwgp c o ci {ct 2u c| gwt »r ck v³4^v pgrgo vcpwⁿ i ckpcm r^qrkⁿ cmer/ o ci^a u²tc c^r r q| v^m vx² ngp {u² i Ägv. u v gi 2u| gu| o gxk^f i wⁿ0 Mrgdgndgti c| qpdc^p uqmen i {cmt^r v^k dd gr^o g xqn0 P^a r c| gr^o 2rgv xci { c o Äm vcpw^o p {q| a uc pgo jqi { eu³4mgpvgw xqpc c v^wtg n³4u² i gv 2u c xcn^u i² t| 2²ngv jcpgo knⁿ dd gt u^l vgw0 M² u dd. co k^l nqt n³4p {vgrp xqⁿ r^qrkⁿ w^u rppkr^a tvⁿ 3⁴grⁿ ndg vctv| pk hⁿu| p^lgp vctv^{pk} o ci^a v. gngph^g k i {cmt^p ul go 2tg xgvw² m jqi { pci {qp ku nk^uo gtv^g o ci^a v c pcr k^r r^qrkⁿ Äxgu| v kdgp0 ÄH^k i ct» qw. H^k i ct» kwⁱ ô kf² | v^m h^l2tg0 Fg c| v ugo ul cdcf gr^hngl^vpk jqi { c o ci cu^o dd e² rⁿev c| 2tv uqj c gi { r^k r^e p^o t c ugo v² xgu| vgw ul go gn n cpp^a n ngx² udd² i qp^f qⁿ h^rcf^a uwtc0 Cpf^t uu { c n³4tf² ugnv c^r r qucp. i gpg^k w^u cpw^o p {q| v. fg v^r dgu dqp {qn^w uⁱ wⁿ dcp cnet^v ngv ô c rgi / v³4du^l 3⁴ ukng^t vgrp Än ô r^qrkⁿ k^r ci ku o gi n³4 gr^l v^l0 Mrgdgndgti j cuqpn^o c^r r qu^a i i en gr^o 2ⁿ gf² ugn vcpw^o p {q| v c r tqdr^o a nev. fg xqⁿ cpp {k c i {cmt^r v^k r^qrkⁿ w^u. jqi { c uqtⁿ i² tf² ugtg ô cmer/ o kci rgi {u| gt u^l xg c| qnev ô v^wgm h^to^a l^a dcp r^g j gv rgi t³4kf g^ugp h^rng^rgv ku cf^q w0 Gi {u| gttg wf^q w c v^w 2u c i qp^f qⁿ v go dgtg o c/ tcf^{pk} c| w^o ddk pgo d^g v^g i v^g w j c^r p {t c| gn ddk# Ugnk pgo r^l w p^a r 2rg^u d^g p r^l d c pgo | gw^k i k n³4tf² upgm ul kpv tgo 2p {vgrp dqp {qn^w uⁱ v0 Fg wf^v. jqi { xc^ro kv v^g ppk ngn# U o^a t c h^r v n Mrgdgndgti pgo tk^f v xku| c rgi pci {qdd v³4x^r v Ä i {cmt^r v^k r^tq/ i tco o t² u| r^g v^u nk^f qn q| a^u r^l d

Md0 57 2xgu xqⁿ co knqt c| Ä0 p0 p {gr^x v^o tk cne^o v^t xg r^g m³ / dgp nk^h to^a n³4f^q w0 C lgrgm ctte o w^e v^o cm jqi { pgo o gi d^l a u c^r r / l^a p f^q n q| qw jcpgo ucl^a v gr^l v^o t^q | a^u d^r d^l0 C o wⁿ i v pci { dgeu/ ci i {cn x² i g| v^o Gttg o w^e v c| c n³4 Äm 2p { . jqi { . cnk tgp^f g^ugp gn tg p² | gw u c ucl^a v r^l a tv o wⁿ i u^a i^a v w^o rci pgo ki gp ul qmc go r^g / i g^{pk} gttg c v^t x² tg n³4u dd ku v³4du^l 3⁴ e² n^a uqnev v^u | 0 Cmmqt^k o wⁿ e/

v̆tuck ku cmen cupcm v̆tqv̆m c v̆txgl̆gvgv pci { gtgf o 2 p { gm dk̆ v̆q /
 ŭv̆ ŭ tc0 C | gi { km n̆4 Ān̆ 2 x̆v̆ gf gm o Ākc o 2 i o lpf̆ ki c | qp c x 2 rg /
 o 2 p { gp xcp < Ē j c M̆gdgudgti Ā0 p0 p { gr̆xj cv̆ tk cnĕ l̆ v 72 2 xxgn
 gn dd n̆g | f j gvg xq̆pc o gi . c xk̆ i j̆ a dqt Ā gi 2 u | gp o a u v̆ t n̆ r̆ gv
 j | q | qwxq̆pc u a o w̆ pntc0

C | gff̆ ki l̆gn̆ n p { k̆ x̆ pxc̆ n̆ . jqi { c | k̆ Ā M̆gdgudgti r̆q̆k̆k̆ek
 u | go n̆ r̆gv̆ dgp c j a dqt Āgn vk̆ Oci { ctqtu a i pcm n̆ v̆ r̆gi pci { qdd r̆ tqd̆ r̆ /
 o a lc xq̆v gi { h̆gn n c | Cwu | vt̆ j | q | xcn̆ n̆ r̆euq̆rv̆ . o a u h̆gn n c pgo | gvk̆ /
 ŭ 2 i k n̆ r̆ tf 2 u0 M̆ Ā n̆ 4 p̆ 4 ugp c | w̆ ddk̆ » n pgo u | pv o gi j̆ k̆ f̆ gvpk̆ jqi {
 gppgm o gi q̆ r̆ a ŭ xcn̆ 2 n̆ Āpm xci { j̆ c n̆ w̆ p̆ n̆0 Gppgm ğ n̆ g p 2 tg v̆ 4 ddu | 3 4
 n̆ r̆ p { v̆ ğ r̆ p xq̆v o 2 n̆ u | qo q̆ t̆ Ā ŭ i i c n̆ o gi a m̆ r̆ ĩ̆ cpk̆ jqi { i v̆ txu | gt
 pgo | gvk̆ 2 i k r̆ q̆ r̆ k̆ n̆ i p̆ m o 2 i pl̆ p̆ euğ p̆0 Gugv̆ n̆ ğ ŭ ğ v̆ g v̆ 4 v̆ p̆ v̆ gm wi { cp
 k̆ p 2 | n̆ g f 2 ugm fg ěc | gi 2 u | pgo | gvk̆ 2 i k n̆ r̆ tf 2 u o Ā n̆ a v 2 u l̆ ğ n̆ g p 2 v h̆gn /
 3 4 gn pgo | gvk̆ 2 i k r̆ q̆ r̆ k̆ n̆ i v̆ j̆ cu v̆ r̆ p n̆ g t̆ gup 2 p̆ n̆ i0 Eucm c u | ko r̆ w̆ o a nev
 n̆ g | ğ r̆ Ām c n̆ r̆ tf 2 u o 2 n̆ 2 tg pgo xci { w̆ pm j̆ cl̆ r̆ p̆ » m p 2 | p̆ k̆0 C | xq̆v c
 u | gpv o gi i | f 2 ug . jqi { c | co Ā i { ku h̆ 4 v̆ g d̆ q̆ { q̆ n̆ w̆ n̆ r̆ tf 2 uv o gi /
 h̆gn̆ w̆ f̆ qo a p { qu h̆gn̆ 7 u Ā n̆ ŭ 2 i p 2 m̆ Ā n̆ pgo r̆ ğ j̆ v̆ o gi q̆ r̆ cp̆ k̆0 C r̆ gi /
 pci { qdd dclv c | q̆ n̆ u | p̆ a . j̆ c r̆ i Ā t̆ gu v̆ t̆ d̆ gp ur̆ ğ m̆ r̆ i p̆ a p̆ n̆0 Ğ n̆ u v̆ ğ p̆ /
 f̆ p̆ gm x 2 rk̆ jqi { Oci { ctqtu a i ě p 2 r̆ tcl̆ a v̆ i { c̆ n̆ q̆ r̆ v̆ k̆ u | go r̆ qp̆ d̆ » n
 v̆ p̆ w̆ n̆ a p { q | w̆ n̆0 T 3 4 v̆ 4 p̆ o gi ku xk̆ i i ĩ̆ l̆ c . o kv̆ c̆ n̆ tv̆ g | gn o q̆ p̆ f̆ cp̆ k̆
 a v 2 u a v̆ n̆ gm̆ m̆ w̆ c̆ v̆ w̆ pm c pgo | gvk̆ 2 i gm o gi q̆ u | r̆ ŭ v̆ v̆ p̆ w̆ n̆ a p { q | /
 p̆ w̆ pm̆ n̆ gm̆ c p 2 r̆ ut̆ ŭ ĭ gv̆ c p { gr̆ xj cv̆ tq̆nev̆ c p { gr̆ x̆ u | k̆ ĭ ğ v̆ ğ v̆ c u | » t̆ /
 x̆ a p { q̆nev̆ h̆ i { ğ r̆ Āpm̆ n̆ gm̆ c p 2 r̆ ğ ŭ g f 2 uk̆ o q̆ l̆ i c̆ m̆ cv̆ c | ğ n̆ t̆ g v̆ 4 2 uv 2 u
 c j̆ cp { cv̆ ŭ0 C x 2 i e 2 n̆ x̆ a n̆ q̆ | cv̆ r̆ p̆ w̆ n̆ c o ci { ctŭ i gt ŭ ĩ̆ 2 ug0 J̆ c ğ l̆ gp
 c r̆ qp̆ v̆ p̆ uk̆ n̆ g t̆ v 2 v̆ Ā p̆ m̆ gn̆ c̆ euc̆ v̆ vo gi p { ğ v̆ Ā n̆0

M̆gdgudgti o ci c x̆ a m̆ cm̆ u | qw̆ ettc . jqi { g o w̆ p̆ n̆ ĭ nev̆ gr̆ xk̆ c̆ r̆ r̆ /
 l̆ cv̆ r̆ ğ t̆ c̆ n̆ c u c r̆ gi h̆ q̆ p̆ v̆ qŭ e d d v̆ ğ p̆ f̆ n̆ gv̆ gi { go n̆ r̆ n̆ k̆ t̆ cv̆ d̆ ep̆ 3 4 u | gh̆ q̆ i /
 r̆ n̆ i c0 C n̆ r̆ | k̆ t̆ cv̆ k̆ n̆ 4 3 4 v̆ v̆ r̆ ĭ j̆ cv̆ » h̆ q̆ i c̆ m̆ c | x̆ a p { pcm̆ co gn̆ o 2 i o c
 ku o gi 2 tf̆ go ğ p 2 c n̆ i p { qo cv̆ uv̆ c n̆ 4 x̆ ğ v̆ ğ l̆ c̆ ĕ p̆ ğ Go n̆ r̆ n̆ k̆ t̆ cv̆ c
 o ci { ct̆ p̆ go | gvk̆ d̆ k̆ t̆ q̆ n̆ r̆ q̆ r̆ k̆ n̆ ĭ t̆ » i0 Ucl̆ p̆ qŭ c | 2 xŭ a o qv̆ eucm̆ j̆ q̆ | a x̆ gv̆ /
 r̆ gi ğ ŭ p̆ . n̆ 4 x̆ ğ v̆ ğ l̆ v̆ ğ v̆ ugn̆ a m̆ r̆ ĩ̆ j̆ cv̆ l̆ w̆ m̆ o gi0 J̆ k̆ cv̆ n̆ u | km̆ ettc . jqi {
 c | 3; 320k p 2 r̆ u | a o ĭ r̆ ĭ uk̆ o ğ n̆ n̆ 4 v̆ ğ r̆ a t̆ j 2 v̆ o Ā kc t̆ ğ p̆ f̆ ğ m̆ ğ l̆ 2 ŭ tg
 h̆ q̆ i a m̆ p̆ k̆ u c̆ m̆ q̆ t̆ c v̆ ĭ ğ x̆ a | q̆ v̆ c̆ r̆ r̆ q̆ n̆ ŭ p̆ nk̆ r̆ ğ j̆ v̆ f̆ q̆ i | p̆ k̆ c | Ā c̆ d̆ d
 cf̆ cv̆ q̆ m̆ h̆ i { ğ r̆ go d̆ ğ x 2 v̆ ğ r̆ x̆ gn̆ c v̆ txu | gt 2 u gi { d̆ gp̆ i { c̆ n̆ q̆ r̆ v̆ k̆ u r̆ tq̆ /
 i t̆ co o q̆ n̆0 Oct̆ cf̆ v̆ q̆ n̆ { cp̆ r̆ 2 r̆ f̆ a p { kŭ . co gn̆ k̆ n̆ ğ p̆ c | 3; 35/cu 2 xŭ a o
 v̆ r̆ ĭ j̆ cv̆0

C | go n̆ r̆ n̆ k̆ t̆ cv̆ j̆ c̆ pi ŭ Ā n̆ { q | c . jqi { c o ci { ctŭ i gt ŭ ĩ̆ 2 ug 2 u c
 v̆ txu | gt d̆ k̆ t̆ q̆ n̆ r̆ q̆ r̆ k̆ n̆ e gi { 2 u wi { cp̆ c |0 Ğ l̆ v̆ c | 2 tv̆ n̆ gm̆ n̆ ĭ go ğ r̆ p̆ go
 o ğ tv̆ n̆ ğ x̆ ğ ŭ p̆ w̆ l̆ a m̆ o ğ p̆ p { k̆ ğ u | ĩ̆ k̆ 2 p̆ h̆ gn̆ Ā v̆ M̆gdgudgti p̆ gm̆ n̆ ŭ dd
 ku c h̆ 4 f̆ t̆ gh̆ t̆ o n̆ r̆ tf 2 ug0 Co k̆ n̆ q̆ t̆ o gi j̆ c̆ n̆ . F̆ co c̆ uĕ j̆ n̆ ğ p̆ gn̆ t̆ q̆ n̆ ĭ qv̆ ĩ̆ v̆

t>nc hqn>ktcv dcp u gddgp 2tfngnu grk>ft>n go nřngl km o gi 0 3; 380
 lcpw t 340²p Fco cuejng gn cf^auv vctqw c dwfcr gunk Pgo |gk OÅ
 |gwo vto²dgp Dqf gpt glqto wpf fkg Dgf gwmp i fgt J glo u@v p c t d g k v
 hAr fgp Mtkgi eřo o grf C| gn cf>v Vko qp f nqu Af x³4³Ang. c |^at>u>v
 I lguuy glp U pfqt o qpfvc0 C jemi c wři nř³4³Av lrgp xqrv Mřdgndgti
 ku. cmqt nř³4 qmcv^a uÅ {k^a mco vknř t0 C| gn cf^au wř p nřhgn f³4v
 gul o geugt qut^ap Mřdgndgti c nř³4gwngl ngv o qpfvc c| gn cf>pcmk
 ëK c| ³p i qpf qrcvk o k jco ctqucp o gi pgo xcn>uřm c j^adqt Åv
 gnxgul vgwÅn 0 O clf ři { hqnřvcw< ëU gtgpugvřp hř⁴f o gi qu ř uwpm
 nř³4gwngl vřdgp c o k nku p²r Åpnđ n o kpf gp d²nř²xdgp nđ0 322.222
 lcxnqtcdgrk go dgtv xgul řvApm gn c nk^a pf qtr ucrf0 G| cpp {kv lrgpv.
 o kpv c o kpf gp 2xdgp nřv jcf vřup {k xgul vř²i dg nřt Ån eucv v xgul/
 vř²p nř0 J c 2řk 2u p³4gnřf pk cnetwpm c hř⁴f tghqto qv c nřj gv nři/
 i {qtuccdcp nřt gul vřn ngm xlp p Åpnđ O^aupcr K= o cuejng hřmgtgug
 Mřdgndgti gv c o kpv vřtkwo dcp. cjqn c| ^amco vknř t o gi o wcv
 pgnk c tqo^ap vřtqi rñ utc xqpcvřq|». netvř²ngndg i { lř³4v cf cvq/
 nřv0 Dgul 2nř gv²u nř³4 dgp Mřdgndgti o²i c nř³4gwngl ngv lgi {g| vř
 o gi < ëC jcteqn m l> t²ul g rctcu| v²u o glgk o wpnř u= gl gm pgo 2tvkm
 o gi. o křtv ngm c tqo^apqm gņp jcteqpk cnkngv d²nř dgp c pci {/
 wcm jqi { qřw>dd o wpnřgt v nř lcpm xcn>uř i i cn dgeucři cvpm 0
 Fco cuejng gi {2 dnřpv jcp i uÅn {q| c. jqi { glgp c rqpvp Mřdgndgti
 gi {gř²tv gw Rtqj^a u| nř Q<qnř ttrf0 Vku c Kux^ap c| qpdc cmqt o²i
 gņpg xqrv o kpf gp tghqto pcn0 Mgo grk jqi { Mřdgndgti nřu dd ku
 2tf gm f³4v hqn>ktcv *Dqf gpt glqto + k^apv u^ancř dcp o gi²tv r^atv
 hj| »lc xqrv hř⁴f tghqto /vř⁴gnx²ugņgn0

J c o^at glv c| grk>fqv o gi go nřgwÅm u j c Rtqj^a u| nř Qvqnř t
 pğg. cnřj gl mÅř pdgp Mřdgndgti gv o grēi dct^a uř i h| vř. gn nřt Ån.
 vř p t^ao wev cwpm ctte. jqi { c o go qtepf wo i qpf qrcvknř i^a pcm
 nkrcnř vř^a t c h nři p²i { nřt vř tucm nřj gv gw o²nř dđ dghnř^a u c0 Pgo
 vctqo hřrcf cvqo pcm jqi { Mřdgndgti g vř⁴gnx²ugk u| gtxgugp dgr/
 kngul vřpk rt>d^a rco c o ci {ct hř⁴f tghqto /vřtxgm vř⁴vř pg² dg0 G| vÅn
 o gppg c 2p e²mkv |2 ugo gp0 G| v c p²i { pğxv c| qpdc o gi ngm
 go nřřpgo 0 C| gi {km xcn>dep Rtqj^a u| nř. cnk o^at 3; 24/dgp nko qpfvc<
 i 00ņp {gtgv hř⁴f gv 2u nřxgi v c i {gp i² pgn0 0 0 u nřu dd. h nři c
 xkř i j^a dqt Å crw 2u wř p ku 2ngu u| cx Å ci k^a vřtc xqrv g i qpf qrcvpcn0
 Rtqj^a u| nř p^an c| qpdc c u| qek² rku u| go rqp v xqrv gn vřtdgp. o ři
 Mřdgndgti c u| qek² rku i qpf qrcv o gņgw h nři c pgo |gw² i k nř t² v
 vctqvc u| go gn w0 G vņkp vřdgp dķ qp {^a t c o²nř {gp jcvw t^a Fct^a p {k
 K p^a e0 nřt u| cnřv cmqt». fg crcr l^a dcp x²xg gñ^a peuqrv vřx² ngp {uř i g<
 c| 3; 250k 2u c| 3; 2; 0k vřgr řvř uk lcxcurv0 U jcvj cwem o²i t^a c| qm c

rt>lf'ck u|cxcm ku. co gn{gmggn cmcm kci c pgo|gvgv hgr^a|pk ki {gng/
 |gw. ¶ { rñ pgo uqmmen gn dd *3;33+ o qpf'c Fct^ap{k c ngeungo²vk
 ic|fci { r'ugp< ëX²i|gvgu r'r²u xqrv c| cffki n'k'gvgw vgrg ¶²uk
 rqrkñe r^an'f'uc0 0 0 X²i|gvgu c²tv o gtv xgu|vpk xcn» kf pm plp/
 eugp0 C pgo|gvgntg ku^am c| ¶^au u|cxc< fqri q| |wpm cffki. co ¶
 perrcn xci {qp. o gtv gn³p c| ²lu|cnc²u cmqt pgo fqri q|jcwpm
 v'dd²0 0 0 Ok o ci {ctqm c U{dkn^am wqn» n'p{x²p²n vtwpn0 C o ck
 o²i ngf'xg| cmcmo crki hqi xku|cl³ppk v'dd²= gppgm gro wcu|v'uc
 x²i|gvgu jkdc xqpcì0 C jcto cfkm Xctijc I {wrc. cnkxgn Mrgdndgti.
 o l'pv c Ucvku|vknk J kxcvn ki c|icw^la xcn^ampf>cp gi {Åw fqri q|qw
 u cnkxgn o l'pfx²i ki c rgi o ngj gdd dct^aw^a h|vg v'au|g0 Xctijc
 I {wrc c wf>u²u c n'v nqo qt ²rguf'v^axcn u'ri gwg. jqi { c pgo|gk/
 u²ik xlf²ngngp cñt c rgi pci {qdd^arf'q|cqm^at^ap ku gt u/o cñ {ct
 h'rcncv vgrg ¶ugpgn0 Wi {cp o^at 3;29/dgp r'g'v c n'k'gvg|. o c
 ku o gi^a» u|cxcnc< ëO l'pv c u^at. c xcnqrev r'jwm c h'c>n Ai { hqi/
 pcm r'jwrcpk gi²u| v'g'v'gm O ci {ctqtu^ai vgu²t n jc qnqu vgrg ¶
 v'uk rqrkñ'xcn c o ci {ctu^ai qv o gi pgo gt u|Ån0 Vcñ^ap pgo v'xg/
 fgm jc Xctijc I {wrc jcv^av m'p³ugp gt utg²t²ngro0 C pgi {gf km
 Dgy'ngp Kux^ap. n'p'gm h rgi Gt²n|v²tpv ci k'ek>^la>n m'p'ngi gu
 qnqnd>n o^at gn| rgi o gi go n'ng|vgo0 Kv o²i jq|^ah|³o. jqi {
²xk'gf gmggn n'z dd Dgy'ngp c v'v'p'Ån gnl crcf v²xgm gro wcu|v'q
 vppkcn'kv o²i gi {u|gt v'au|ghqi r'cnc< ëP go t²i u|gt|gw n'ngt'xgu
 v'rcu|v'rcv'cpm hqn'v'p o c o^at o l'p'cpp {kcp r'vwm jqi { 3;29/v n
 3;36/ki h'rf'cwpm c| ngw xqpc. jqi { c xgu²n|g|v'vgw v'g'v'ngp
 gt u|Ån²u dl'v'v'wcm c dl'v'qr'qrkñe. c| k'ctk n'gt'gungf'gro k n'4/
 ic|fcu^aik²u dcpnr'qrkñe o gi h'rgn gu n'4 gkxgn c o ci {ctu^ai i {34V\$
 i Ån r'q|'ek>^lv u c|v h'qnu|c'qucp o gi pgo v'o cfjcw>x^a v'i { Gf0
 C m'p'qrkñek jqt'k'qv cmqt o^at u³4²v xqn0 N^av'wpm n'ngw. o l'pv
 u|crqtqf'pcm²xt n²xtg c x²u|l'ngm o gn{gm pci { r'gu^ao qn'uv l>uq'
 vcm c pgo|gku²ik n'f²u v'g²p0 |u|tg n'ngw xgppk o l'p'gp p{k'q
 u|go r'qrkñw'upcm jqi { c o q'p'cej'k²u O ci {ctqtu^ai gngp g'idd/
 w'dd n'p'egp'k'wv v'o cf^au hqi o gi l'p'w'pk v'g'v'p'gm h'rf'ctcdq/
 r'uc e²n^ad>n²u jqi { c| gw>rck V³4'ngtu^ai r'knk^ar'uc w'p o k
 n'g'Ån'pm uqttcì0 Mrgdndgti g|v o^at cmqt v'au|v'p³ugp^av'v'g|v u c
 o ci c gu n'4 gkxgn o l'p'gpv o gi v'gw. jqi { c x²i|gv Å^adc^am'qp0
 P²|| Ånc v r'g n'k'qri q|qweucv'gtxg#

Cnr'gr'g²u n'k'p'w>r'q'p'v< c pgo|gku²i gm jct^adcp c| c l'ñ
 i { v0 Co gn{l'ngm o gi t'g'f'¶j g'v'v'p'gdd c pgo|gk gi²u|u²i g²u pc/
 i {qdd c v'g²u|gvgu u|crqtqf^auc0 O l'p'g| c|q'p'dcp c r'gi u|qt'quedd
 v'au|gh'Åi²udgp xcp c jgn'gu dl'v'qr'qrkñ'xcn0 Dg'q'rcf^au²u dg'q'rcu|v'u

v̄u u^ao qwgx o²t²mlgp eucm c p{grxjcv²tqnp²u u^a»tx^ap{qnp
 v̄4²pln0 O kpf gdd n rxxqlc c vx^addk n²gngl v²ugngv< go gpk ngm
 c p²rut u²igv c xulvc o ci{ct vt²ngngp. jqi{ qn{cp p²r h²4²angi gn
 tgpfgmg|²Am co gn{gv o gi hrgn dktvnr qrkkn²xcn h rgi vng²uug
 c xgul²n{gl v²gw x²i gntg fqdj cwpm ô c o ci{ct p{grxvt²ngv
 n²4²ngx |»p^anqp Ai{ ngm o gi gt u²gpk c o ci{ct u²iqv jqi{ c
 xgi{gu p{grx vt²ngv o ci{ct^a x^an²m u jqi{ c o ci{ct p{grxjcv²tv
 ¶|{ dgxij cuwm c pgo|gk²ik vt²ngtg ô c 0 ci{ct u^a»tx^ap{qnev
 ki{gng|²Am p{grxul ki gvm² hrlgul vpk ô c xulvc pgo|gk²ik vt²
 ngngp pgo ulcdf Alcdd u^a»tx^ap{qnev vtgo vpk0 Xgi{Am uqt^adcp
 g n²4²vgm²p{gngv0

C o ci{ct p²rut u²i go gr²ug# Xk²u^anv cñ xgulc c n²v pci{
 o ci{ct p{grxvt²ngv< c fw^apv²rk/cñ²4²lv²u c u²ng{u²igv0 |ngv
 xci{ jci²lv lgrpv c p²rut u²i go gr²ug0 ëf nci²dcp o kpf c n²v oc/
 i{ct p{grxvt²ngv nxxgugddgp xci{wpm glgp c^arfqw h²4²3p. o kpv
 co gpp{lgp ngi gv²pn0 U^ao wpm eugn²n² xqnc c| qnc²4²ulgu i{gpi g/
 u²i Anpgm²u hqt^auc fqni clpm ngf xgl vgp hq²n^au^apcn0 C p²rgug²u
 vt²p ku ki c| c| c pcr»ngpk o qf^au. jqi{ c euc²m kugpg c p²rgu
 dcvcnppqmmen xcp²0 C n²4²gvpf o»fulgt< rctegn²u. vng²u. fg
 o gi hrgn i c| fcu²ik cñ²v o cu²v uci0 Kk{gp o»fulgtgn cnetlc go gpk
 c p²rut u²igv c vqpcô hgl²to gi{gk t²ulgp. c U^atx²vn ngrv²ngi g/
 vngi c| gi²ul xk²ngp0 Wcn ctc. jqi{ c Dc²rvp n²4²p²n²k lgn nngpg
 ulcdf²pk c t^apgj g|gf p{qo^au^an ô Mrgdndgti »nqo uAn²v go ng/
 igv ô co gn{gv c p²rk hgl²f²u u^ao^atc c xgul²rt²ok n²rvc²p²u c
 dgpe²utgpfk r²vkwpfkw lgrpv0 C| cñ²4²fk x^atq²ndcp gn ngm o q|f²
 vpk c vpc{c²nk/ul²ng²u²0 ëXcn»u^aiqu pgo|gk Ai{i/pgm vmpk
 jqi{ Ugi gf p²rg o gi ulgt|jguug c Rcmxlepk r²vkwpfkw vt²ngv k0
 Cjqn c vpc{cñ²r| jcv²u o gi ulpkm qfc hrc²nev ngm vng²u²gk0
 Kk{gp c jgn{gv m²4²3p Rguo gi{g f²rk n²vjcto cft²u²dgp u c|
 Cñ²4²3p o^auww ku0 C h²4²ulgt²uv ngi gv x² n²4²plc vppk c xkulc/
 x^apfqtqpk n²4²pnq|» lqddo »f^agrgo u^ao^atc ku< nk nngpg r vj c/
 vqpk o k{gp hrc²ncd ulgtgv²pgm pci{qdd u^ao dcp xkulcx^apfq/
 tqpk u c| k{gp jgn{ngp ëu²v ngm An²ki c pci{qdd dktvngv jqi{
 jq| h²4²x^au^atr²uk cmem cnev vtgo uAn²0 Pci{ h²i{gng o gn n²4²tk
 u²ng{u²itg xqpcvq|» u^ao cfcvngv u c xk²u^an²f^au gtg²o²p²xgn
 gi{^anci²p plpeu o gi gr²igf xg0 C| cfcvqm xk²i qucp o wcv^am jqi{
 c u²ng{u²i^ancpf»cp ulk^atqi Tqo^apk hgr²0 G|gp c pci{ xgulgf gn/
 o gp c n²4²nggf²uk xkulqp{qm lcx²u^axcn c| kct/²u d^ap^au|cv hgl/
 ngul²v²xgn u h rgi o gi hrgn. dktvnr qrkkn²xcn ngm ugi²gk0 G|gp c
 n²p{gu rqpvp c dktvnr qrkkn² pgo ulqt²nu|jcvkm r wul²v²p x²fng/

|²utg0 Xku|c ngm ulgtg|pk c o^at grxgu|vgw vgtÄngvngv ku0 ëC U²ngn(/
h³af³p o kpf gp j qif pgo | gkvcrc|²tvul ¶k»u gt²m{gnngmmÄ f gplk

J cuqpn»²dgt hki {gro gv ulgpvn Mrgdngdgti c xgi {gu p{grxj cv³t/
u^axqm r tqdiz^oa^{1a}pcn0 Cncr grx²v ulgo iz²ngvugp o ci {ct^a||c< ëJ c
qnqu go dgt pci {qdd x¶ vgtÄngv dg cnet vgo gypk c o wpn¹v pgo
cl qp ng|fk jqi { c x¶ ngm n³4 gr²dg jqtflc c h³af gv jcpgo c rctv
o gp²p n¹v jql|^a c o wpn¹jql u ¶i { vtlglulvk nk c ul^atc| vgtÄngv0
G|v c| gi {ulgt²u o ci^a»n²tvvf o»fulgtv ngm n³4 gypk c pgo|gk
dktvnr qrkkn¹dcp ku²u c p{grxj cv³tqntc ngm vgtgpk c o ci {ct p²rg/
ugf²uk h³af³ugi gi { t²ul²v. jqi { c pgo|gk²i k vgi pti hqn| cvqup
xku|cul qt¶wun⁰ Mrgdngdgti. c tg^aku ul^aoxv. pci {qp l»n wflc.
jqi { c| cfqw xlu qp{qm n³4³av c| cp{cik gul n³4³amgn ic|fcu^ai qucp
ngm d^appk ogtv c vgr¶²u o²i cmqt ku ft^aic. jc l»n ogi {0 Ogi
xcp cl qdcp ctt»n i | f xg. jqi { eucm gn ngm kpf¶cpk c hgn f²uv u
w³pc uqm o kpf gpv o^at c fqñ qm vgt²ulvgu o gpgvg ki c|¶v gr0 Fg
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o ci {ctqm¹ ngm x^arpkn0 G|ngp c n³p{gu vgtÄngvngp pkpeu pgo
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J cuqpn»n³r r gp ngm gn^atpk c p{grxul ki gvnp²n² u c ul»tx^ap{qm
p^ar0 G rqpvnqp eucm c pci {qdd ct^ap{Ä vgr¶²u ugi ¶j g0 Fg ngtÄpk
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grxgv mÄ³pdgp n³u dd c nwnÄtr qrkkmw ku^ancpf»cp jcpil vew0
J qi { o kn gp crt»iz²ngucncm vgl t²ulngvntg iqpfqn ettc eucm gi {
r²n^av# C eu^amqtp{ck t²ultg. co gn| c |^ait^adk rÄur³4m²i jg| vctvl km
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c rÄur³4m²i gugvgi gu ngfxgl vgp jcv³u³ o ci {ctu^ai wntc o^at
ngxg n³4³o d³4¶ug. wfv. o k²tv vgtxgl v ¶i {# C ngi hqvqucdd²u
rgi uÄti ugdd hgrcfvcpcm c|³4ul gu o gi qif cpf» r tqdiz^oa^m n³4 Än
o²i ku c|v vctvvc. jqi { c| qñj p²rvgi gtgp xcn» ën³vk^ap{Ä^aw³4²u/
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o ci {ct i gpgt^aek» ul^ao^atc gl o kn gp uÄn qu uqtn³tf²u ngul 0

T²ulngvugp hqi rcmq| km Mrgdngdgti c vku|vc pgo|gk²i k vgtÄng/
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 u v gi {gpgup xgu²n|gu gr^at^au rppg< g|gm c o guvtu²i gup r²vg|q|qw
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 l^am jqi { c ic|fcufik lngi cnel>ndcp o kfgp hngpi|²u o gi/
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Fg c vuv pgo|gk²i k²ngngp ku xcp o>f c o ci {ct grgo
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 o gpv n v²4d²u lqdd o ci {ct kun²v c pgo|gk²i k²vpi gtd n nigo gn/
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gnu uqtdcp Mrgdgndgti ul gtxgl o wpmf lc. o kpv pgo uqnt tc rñ vpk hqi / lwm l>t2ul v o gi ku qrf qwc0 f mcpf »cp j cpi q| vclc. j qi { pgo grñ i o ci {ctquf|cpk cnetpk pgo ku ul cdcf o gej cplu vkwu^a p o ci {ctquf| vpk< c o ci {ctu^a i qv ngm gt u^agpk# Pgo grñ i pgo |gku^a i k rqnknit v euk^a rpk< e^a nwf cvqu. d³4eu pgo /gk rqnknit tc xcp ul Am² i # U rñ gi { o qpf cvqv co kpgm nAm³ rñ gi gu² vgm² v c| c n³4Am² p| cf lc. j qi { gi {/n³ v² xxgn c pci { o kngppkwo k Appgr rñ u w^a p xgvwg r cr ktqut< ëO gi rñ gv ugp o gi hgrf ngl vAm ctt>n j qi { c o ci {ctu^a i o² i c|^a mco j cv^a tclp dgnAnku uqmgugvdgp o quvj c pgo | gvkj gn| gvdgp xcpì 0

C| go rñ nkt cvj q| v³4x² p| lxcxurv² u gppgm kpf qmñ uc eucvcmq/ | knk o kpf ngw Mrgdgndgti vqm^a d>r0 C| w>ddkd>n o^a t kf² | vgo c x^a tqum pci {hqvqu^a i À ul gtr² v o gi xkf i f» t² ul rgv0 O ci c c v³4/ x² p| lxcxurv gi² ul gp t³4kf< ³4w nku ul cncu0 N² p| gi gu t² ul² dgp gi { . c o kpkul vgtgp³4m tgpfgm² u² tg dqu^a vqw cncr qv vgtgo v. co gn| gi {g/ n tg h² m knk» nqtqpc rppp0 C| ³4u| gi lgrgp² mgrgp xqnc o² m^a p hgn pj gvkn0 Fg wfpk ngm j qi { Mrgdgndgti o^a t cmmqt ku. n² u dd ku c ëvgtxul gt v^a i f³4 u² j f³4g xqn< nleukdgp ngl fgpk c f³4pv o q| cpcvqnev nkscr qi cvpk u c| w^a p hqm| pk c vgo r>v. o clf rñ gv rñ vñlgu gt xgn t^a xgvk o ci^a v c o gi qn^a utc0 C| ku c n² u ddk Mrgdgndgti tg go rñ ngl / vgv j qi { c| gn n² u f³4 utg ul² rgn³4 cwqp>o k^a xcn hgrt w^a | qw vcp^a / euqvgtxgl

Gi {² dn² pv xcn>dcp i tcpf l>| wu r tqi tco o. ct^a p{rñ i nku gu n³4 |³4mgn grkpf f³4 j c» o>f qp o gi ul gtnu| wg0 O gpp{ktg lmggo| o kpf gl Mrgdgndgti gi {² pk² i² tg# Cj qi {cp n² u dd c v² tn² r tg j clqn u c ucvku vñe ul^a o qu| nrckv dÀvc. j qi { vcp{ck kunqñ kpm j gn² v nkgñ³4lg u j qi { c o ci {ct x^a tqucqu^a u lgn| qu| nrckv rñxgtlg. Ai { j clqn o^a t cmmqt ku c v² tn² r² u c ucvku vñek cf cvqm h³4f0 C e² n wi {cpc|² u ³4³4k c o ci {ctu^a i ul qn^a rvc² u gt u^a f² ug0 C| ct^a p{qm c| qpdep o^a uqm^a n² u dd Mrgdgndgti pgm c euqpn^e qtu^a i v² tn² r² xgn² u cf cvkxcn ngn² gw fqi q| plc. fg rgnk ul go gk gn w cmmqt ku o kpf ki c v³4² pgk qtu^a i n² r g rñdgi gw0 U cj qi {cp n² u dd gtrg Æw c v rñ vgtgo vgv vcp{ck kunqñ m h³4f³4w. j qi { cmq² v uckv hgn² n ku o gi ul go rñ rlg. Ai { ul^a i wf cmq» n² r| gngv c v³4² pgw k O ci {ctqu^a i pcm cmmqt o² i² r v² tu² i glp. j qi { nkgngaug c| gt i { l² utg cmc² cu i >er qpqvnev² u c u^a ti u ugi f³4 u² i tg ul qtw» qo rñ q| > i^a vcnv0 C Fw^a pv^a n nngryk t² ul² p² u c| Cñ³4f³4 p² rk gt /tgi gtxq^a tv cnet vgtgo vgpk c U² ngn / h³4f gv ul kpv n³4 Æn cnetlc o ci {ctx² f gt o xgmgn u^a peqrpk Dlj ctô U| cvo^a tô U| kñ i { v² tu² i glp n² r| gng² dgp o^a t o gi xcp c| c ul² rñ u ul fpo ci {ct | >pc. co gn|^a w³4k c| qñ j p² r vpi gtv u ul² w³4j gvgvpp gi {u² i dg h| k³4u| g c ul² ngn u² i gv c| cñ³4f k² u fwp^a pv^a k o ci {ct/

u'iicf0 G| c| ä w42u c U2ngn|h4ftgi c ngi f2f gni gvgwdd i qpf qrcw0
 U n34 dgp ngf gi { o gitgpf v o qpf cwv a nci dcp c o ci {ct dktvnr
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M u ddk p{lcwv|cvckd>n cttc ngjgv n34gvng|vvpk jqi { o go q/
 tcpf wo a v 2u v4x2p{lcxcrcv v gtfgvki vcr p Y gngtrg U pfqt
 cmqtk o kplu|vgtgp34ngm ul a pwc0 Co kg c|qpdcp gm34u Äv xng. o a t
 it>h Mj wgp/J 2fgtx a t{ M tqn|. u v gugvni Nwnfe u N a ul n> xqrv c
 o kplu|vgtgp34m u o ci c Mrgdngdgti ku o gi x a nv c o kplu|vgtgp34u2 i v r0
 C lgrgm c|v o wcv a m jqi { c |cxtqu dgr qrkncck xku|qp{qm gngp2tg
 c rtqi tcote kng2ngu jgn{gp hki {gm gv nngw0 V34x2p{ wi {cp pgo
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 u|uv xcrco k{gp hqto a dcp grpf vj cvc. hgu|>n|uv ncr jcvqw c
 t2u|ngvm nkqni q| a u t c0 Gi {km hngi ||2u2dgp o gi go n|k jqi { c
 Dcpm n|a pu i a tc go n2kcvdcp hlvvgw nk p2|g2v ctt>n ëo kv nngpgp
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C| gi {km ô xcn>u| p ngi o2i 3; 35/d>n n ô o a t t2u|dgp 2t2ngv|k
 c| 3; 32/k p2ru| a o n2n u cfcvck o ngw c Dcm2pj a dqtÄ vcpnr a i cv k c0
 Mrgdngdgti ul qo qtÄcp a ncr |dc o gi. jqi { c| Ä p2ru| a o n2n uk cfcvqm
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 Dlj ct x a to gi {2ki vgtl g f 34u|ghÄ i vgt Ängvp xku|cgugw. xci { c
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 nngvk O ci {ctqu| a i qvÄ J a tqo ul2m x a to gi {2dgp c o ci {ctu i
 3; 22ô 3; 32 n34 34v : 7 ' /t>n : 506 ' /tc eu34ngp0 Eu|fm x a to gi {2dgp.
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 c| ct a p{ul a o 00 ctqu|Vqtf c x a to gi {g xku|cgugw790 ' /t>n790/tg0

Mqru| u x^ato gi {²dgp o gi o ctf v c 480 ' . fg Mqru| ux^atv xku| cgugw c o ci {ct grgo : 706 ' /t>n : 6Q/tg. co k cpp^an o gi f³ddgvp dd. o gtv c x^atqundcp ²rrgp c| gmgn| hqn|co cv rppg c u| cd^an|u| gt 0 Dkj ct/ dep xcro k eugn^an| lcxw^au o wcvnq| qw0 Fg ^ancf^adep c| v ngm o gi / ^amer^aϕcplc. jqi { c u| »dphqti » vt^argv^a c o ci {ctu^ai dvgi # U n²p{/ vrgp c| cf cvqnd>n o²i c| v c n²kgvng| v²uv ku rxxppk jqi { pgo o An> dellcn jcpgo tqu| cddqf » ^amer qwen ngm u| go dgp²| pAm Vg^av< c rgi u^ai ugddgp o w^an| j q| ngm n²vwpn# Gppgm c| qpdcp kf n²4 dgp o²i c| gff ki kgn²n ku nqo qn²cdd cncf^an|ck v²o cf vcn0 èC dcm^apk j^adqtÀ n²kgvng| v²dgp. m^ar²p³4ugp j c| À vt^argvngn o gi p³kgngf U| gtdk ncvpckci ²u i c| fcu^ai kci hqn| qwedd o²t v²m² dgp gt u²4 pk hqi. o qpctej^apm n²p{vrgp ngu| c. Tqo^apk^axen o kp v pgo u| n²x j cvm²o cn xen» m^ar qrk^anek l>xku| qp{v^a r qrp k o gn² m^ar r qrk^ank u| Am²i gu²i pgm xku| cj cv²uc ngu| c dgr qrk^ank tc ku0 M^av o gt dgp gm²v²gu k^ap{À u| Am²i gu²i n²4³4v ngm o clf xlp^apm cnek>pnv ô co k c rgi pgj gl gdd hgrf cvqm n²4² vctv| kn0 C o wpne eum | clvcp rj gv u c hqn| » ²xk²gf dgp eum x²f gng| ²utg u| qt^amq| / j cvk< c U²ngn| h²4f x²f gno ²v u m^ar²p³4ugp c| ²u| cnk ^aw²4²uk xqpcrdc gu o ci {ct u| »x^ap{qmo gi gt u²4²vngmh rgi u| qti cm c| pl0

W{ cpgmqt rxxplc U| gtdk o gi gt u²4²u²pgm n²kgvng| o²p{gk ku0 Hgn²vgn^an n²4^apcvqpcm vctvc c| cf wpck jcv²t pgo| gk o gi / gt u²4²v< c O c tquq/ v^ark t²u| v ²u D^aeun^av r g f ki gi {pggvp m^ar r qrk^anek u| go r qpv>n vgr gugn^angm ngm o ci {ctu^ai^adep i {ctcr^aϕcpl0 G| v n²4^aplc gi {²dn²pv c| c n²4^ano²p{ ku. jqi { c u| gtd grgo gl gngp c t²u| gngp 3; 22ô 3; 32 n²4³4v ^ancf^adep u| cr qtf qw xci { xku| egu²u²/ dgp o gi cnefv j qnw c| gn| ²xk²gf dgp lrgpv²ngp{gp eu²4mgnv0 i { n²vc. jqi { gl c xku| qp{ni qu gn tgv²4²u eum gi {km t²u| g cppcm c| ^ancf^apqu hngpf An²upgm co gn²gv c u| gtd pgo| gv c o ci c gi²u²dgp c rghqn²v ²xk²gf dgp p²r guf²uk ncvpck u| gngok ²u i c| fcu^ai k v²tgp gi {ct^apvgr²tv0

C o^aukm v²4gf²m ô 3; 36 gnu hgr^ad nô pci {qddt²u| v c lGgnw²m²ngn hqi rnmq| km Mrgdngdgti ô cmqt o^at n²4 qnc²v u^ai {k ^amco vk^ant ô p²r kun^afv vgtxg| c X^ai cn> hqn^auc o gn². X^ai Aj gn^av n X^ai / ugn²k i 0 C| 3: : 2ô 3; 32 n²4² gu ucvk| vk^ank cf cvqm ccr¹a²p o gi / ^amer^aϕc. jqi { c o ci {ctquq^au gr^ai reu^aÀ xqv ngrv^a Wpi. p{w cvq r g f ki Rq| uqp{ ²u Dctu x^ato gi {²ndgp0 C w^ari g jgn²ngp gt up vctvqc o ci^av0 Xgu| gf grgo pgm nkgw o ci {ct p{An^ap{ u| gtpvg c \ qdqtj gi { n²4p{²ng ku0 C x²f grgo n²4 r qpv^awn gi {²dn²pv P{kt^av u| go gng n0 C w^av p{An^ap{qm n²4 An gn u| ³4 c Mcuucô U^avqtrc/ Aj gn^aô Wpi x^at n²4³4vk vt^argv^a u| gtpv² o ci {ct u| go r qpv>n

ngl fvgm ul go²dg p²|pk c| gr²pm ogtgf rtdif^oa npen⁰ C| gi {km rgi / u²ti ugdd²u rgi vto²ul gvgugdd hgrcfvpcm c| r²ul qw jqi { c xgul²n|gl / vgvw jgn{gnp²n ul Arvgw o ci {ctqnev o gi »xl^am c dgqr²cf^au»n rgi c²dd ku c U|gpv Mqtqpc. xci { c o qpctejk vt²Arv²p. fg rjgv rgi c jcv²tnq²v² n ku⁰ C Lwk²p/gi {gu²Arv c²tv crnwx jqi { c Ft^ax^ap v²n U|rx»pk²dcp. vx^add^a Dqu|pk/J tgegi qxp^adcp c o ci {ctqm ul gngo k i qpfq^au^av x^amcrlc⁰ J cuqpn² e²rd²n r²vu² n c U|gpv N^au²n² V^atuv²v Tqo^apk² u Dwn²xkpc o ci {ctlcpcm x²f gm gl²u²tg⁰ C n²Ar² h²4f k tgh²to^awu o ci {ctu^ai x²f gm²v xlu|qpv l²t²u²v c o ci {ct tgh²t/ o^awu gi {j^a| x^amcrlc⁰ C n²v go r²vgw gi {gu²Arv o kpf gi {kng v²tuc/ fcm k h²to^amlc 3²4²4²v fg pgo p²m²4²vg c²l^amo k ugi v²u²i gv ugo⁰ G ngw u²i pgm o gi hgrn gp p²i { h²th²A p²x²v ngm o gi go r²vgpgo c Lwk²p/gi {gu²Arv n² f gm gu² r²gv² pgm c|cn c| gnu ul cncu^axcn n²reuq/ r²v dcp. co gn² crn²w²u²»n c xk²i j^adqt^a nk²4²u²ki v²cvq² it²h U²ej gp{k D^an xqn c| gr²u gp²4²n Mqm²p{k Hgtgpe c| gnu cr²gp²4²n ô o kpf ngwgp c v²tucf cm²o t²u²t n Vctn²xlej L²|ugh o k²ku|vtg²gp²4²n u²i k^amo vkn²t. Mrgdgnudgti o gvgtg²u cv²ck l²cn²»lc^amv c| ki c| / i c²u²i² r²fp u Mrgdgnudgti. cmqt ugi²f vkn²t. ngw c| Ä²{xg|gv ki c| i c²» ô c| w²ddkcm c n²to^ap{|cv t²u²t n⁰ C o gi crn²w²u² u 3; 26/tg gugv⁰

C o wpne c uc²ku|vkn²cfvqm dgu|gt|²u²xgn kpf wv o gi⁰ C| gi {km lgru uc²ku|vkn²w²pm c jgn{ul²ptg wclqw jqi { c o gi d²l jcv²wcp jqt^av cfvqnev. co gn²gm c rgi pci {qdd ngngv²pu²i i gn ku n²p{vgr²pgm xqncm ; 2.222 h p{k o ci {ctu^ai qv n²o w²epk gmgp tk|pk rt²d^arlc. fg h rgi o²i ku c²tv jqi { jgn{ul²pk 3²4²u|g²u²qm ugi v²u²i²xgn c| cm²o^a2 grkpf w²uk jgn{gmv nkcr qi cuuc⁰ C| c i {cp^a jqi { rgi c²dd 422.222 o ci {ct uqtu²t²n xcp u²». w²ri dgi c|qn²f qw⁰ C vx^addk²ndcp ul Ä²n² u²i xqn jqt^av p{grk²gp w²». o gi d²l jcv². Ä²{gu ul gtxg| mtg. cnkn c pgj²| hgrcfvqv x^ancj²cw²n⁰ Ogtv c| Ä²4² n²gm uqnu|qt xc²dcp go dgt²h²4²wk²pgj²| u²i gmgngngwo gi m² fgpk²n²#

C Lwk²p/gi {gu²Arv. co gn² gp²gxg²u²dgp ô Mrgdgnudgti 3²4²rgv cr²rl^ap ô c Oci²pe J wpi ctk/dgrk o ci {ctqnev hgrgtgu Lwk²py d²ta²vpcm c o ci {ct êhclulgtgvy »tk²u²pcm go r²n²v cnet²o gi 3²4²n²l²vgpk gr²u uqtdcp p²r²kuq²n²nev^an²l² jqi { c f²mkf²ngp²n o ci {ct u²»x^ap{qm r²nuqclpcm i {gto gngk c| k²uq²r t²x²p ku o ci {ctqm o ctcf/ jcuucp²n⁰ C e²n²o ci c Mrgdgnudgti c| gi {km lgi {gv²4²gf²n²dgp c n²4²g²ng²l n²r²rgp hqi cm c| c o gi < êHclwpm fce^atc c n²4²dgl²4²v k² n²gm qn{cp v²tj²»f²uv o wcv co k r^atevc²pn^am c p²r²gug/ f²uk o qli cm cm v²4²v²pg²dgp⁰ Qne gppgm hclwpm pci {qdd² r²ngvtglg. c| gtn²4²ek cr²r w²cl²qpu²i qm² r²u²i g. c o ci {ct cp^am pci {qdd vgt/

o²ngp{u²i.g. c| gi²u|u²i. Āi {k nīxgvgm²p{gm qnqu^a v²t²ug⁰ Hgrcf/ wpm c|. jqi { c hlk²ngvt o wpn¹lc n¹tdc pg xgu|gp. jqi { cnk¹ o ci {ctpcm u| Āw o ci {ct cp{c. c|v vctw¹m o gi o ci {ctpcn⁰ C vx^addkndcp nkhglk jqi { c o gungtu²i gu dgrkcu¹v¹u¹n c| cpp{ku|qt hgn^ap{vqi cvqw o ci {ctqu¹v¹u¹n pgo x^atj cwpm uqnev. u v g| eucm xgu|gf gm gv kf²|jgv hglApntg⁰ Gppgm o²i eucm c| go ngi g²ug ku x²i/ |gvgu ngi gw⁰ Fg ô hqn|v¹lc vx^add ô jc c jqt^avqmpcm c|v o qpf lwm jqi { c o k e²nwpm eucm pgo |gw²i Āpm o gi vct¹uc u g| o kpf gp hclpcm u|gpv lqi c. cmaqt o gi f³pvj gvgv¹p. ki c|u¹i qu cncr qp^a n¹wpm Āi { Āpm pgo u|gpxgf jgv xgtg²i gv. jku|gp c jqt^avq¹m ku wi {cpglv nīxgvgm v Āpm c o ci w¹m u¹o^atc. vj^av c lqi qv v Āpm ugo xicfj cv¹m o gi 0 C nkt^ai u¹crcp qnqunq^au gngp²tg c o w¹nc gi¹ncf¹p pgo o gpv uko^ap0 C Lwk^ap/gi {gu Āgv kunq¹k lqi kci o ci^ap lgn¹gi gm xqncm co gn{gnp gm hgn¹n¹v c d^apk n¹to^ap{ gpi gf²n|g|vg⁰ Fg c jgn{k jcv¹u¹i qn¹pcm ngn¹gw c hgn¹n¹uv x²ngo²p{glpk cok tgi gvi cncf²/ nqunq^autc. nkdĀx>tc cfqw cncr¹cv⁰ Mk ngn¹gw r¹o o wcvpk xcp/g grgi gpf u¹o Ā v¹pn¹4gru o ci {ct i {gto gn⁰ J qtx^avq²u u|gtdgv wi {cpku grk¹gi pgo xvgm hgn c o ci {ct kunq¹n¹ndc⁰ C v¹pn¹4gru/ r¹w¹o t>n x²i vgrp xk¹m hqn|v¹m u pgo tkn¹p c o gi p{k¹unqt n¹w|gt/ cpp{k o ci {ct v¹pn¹4gru lgrpvngl gw. o kpv co gpp{k o ci {ctv c jgn{k jcv¹u¹i qm gi {^ancf¹p jclrcpf>m xqncm grkuo gtp⁰ C i { r¹4m¹4 rcrqm²u v¹pn¹4m c tkf gi gp gr^atn>» jcv¹u¹iqm c hgn¹icvq¹ r¹nq¹u¹i uqnu|qt qf^aki l¹wcv¹m c jgn{gvg. jqi { c o ci {ct nkn¹4w pgo nerqw h¹wctv u v u¹o^an¹u|q| ugo l¹wq¹w⁰ Mgdgndgti gi {kn vknqu lgrp²v²dgp o²i vx^addk pgi²|u²i gngv go r¹o Gdd n n¹kf¹Ān jqi { gi {gu jgn{gngp pgo tkf¹v¹m xku|c c n¹gi dtw¹r¹kcdd gu n¹4³m cncr¹ o ci^au¹w¹n ugo 0 C o ci {ct kunq¹m gngp hqn|v¹q¹w l¹mgngp ci k¹ek¹ gtgf o²p{n¹pv *ngxgu²n¹gu hgp{gi g²u. c xgtglv²ngu o wpn¹xcn hgn¹2¹r¹g¹w j^a| hgn{Āl¹v¹uc. c u>u¹2¹nt n k¹v¹|gw pgo |gw²i k v¹o cf^au²u dgeu²tr¹u. gi {/gi { hcnw o ci {ctu¹i^atc c ucte lgn¹2¹xgn d¹» uĀn{qu d¹u¹i qm nkt^auc g fleugngp cnel¹ tgp¹gu gu n¹4¹gk¹0 M¹w¹i vgrp. jqi { c jqt^avq¹m h n¹gi c o gu|gddtg r¹»m uqmn¹cm gmgug¹gf gwgddgp mĀ¹f³v¹gm c¹ v¹tc¹o cv¹cpmpcm r¹w¹» Lwk^ap/kunq¹m o kpv r¹o c| cpp{k x¹l¹ctv hgn¹gtv xcu¹vk r¹ci o cv¹nc gngp. d³4eug¹ w¹x^ap. jqi { c| w>ddk d^ato knqt gi {gvgp vqnk¹q^au¹cn o gi u| Āpv¹gv. c| kunq¹m c| qpdcp o²n{gddtg jcv¹ o wpn¹v x²i g|pgm c|qp c h¹4f³4p. co gn¹ c v³4³m r¹w¹ v¹u gn w o ci {ct xqn¹u co gn{gv w¹cl¹qpn¹rr gp u|gtgp/ eu²v¹gp r¹q¹kn¹pm cfqw hgn⁰ P²jc c hgu Ānu²i xcn¹o gpp{k¹g gp{j Āw h n¹gi jc c r¹q¹kn¹ek cv¹qu l¹tc/p{qo^au eu³4m¹gp⁰ Gi {2dn¹pv c| qpdcp cmvc jcte. u| k¹vg u| cncf¹cv¹pw⁰

C u²r gtgfo²p{gnv c|qpdcp c jqt^avqm ku²u|tgxgw²m u vñf p i{cp^Àv hqi vcm jqi{ c| kunqñf m o n¹4²ug o³4³v o guu|gddp{^Àv e²nqm j^À»f vcm o gi 0 M²w²i vgrp. jqi{ c| gtgf gk e²n l>j|ku|go gp c o ci{ct i{gtgnp²gm cp{cp{gr^Àn¹4² xcn» kunqñf|v²uc xqn0 Fg Mrgdgnudgti ô jqi{ ucl^av nk¹gl|²u²v jcu|p^arlwm ô c ëvgtxu|gt v¹i²u¹ u|ng²o²dgp o guu|g gn tg p²|gw u xcn>dcp o guu|go gp e²nqnev n¹4³gvw0 Oclf n¹vpk hqi lwm jqi{ gl gnj|gl u|cdlc c| gu n¹4³ngv ku0 Gi{gn tg xguu²pm gi{ rkn²pv¹uv cddc c vknqu o go qtc²pf wo dc. co gn{pgm hqi cm c| x^ap{c k¹cvck n¹4³v o ctfv t^apn0 C o go qtc²pf w o qv 3;32 dgp Vku|c K¹w^appcm u^apc. co k c|²tv hgn p . o gtv gl/ kf dgp Mko gp/J²f gtx^at{ xqv c o kpku|vtgp³n0 C j cpi d>n c|v n¹g jgpv n¹4³gvw|gvpk jqi{ c Lw¹d p/kunqñf nev. co gn{gndg gnuqt 32.278 i{gto gm l^atv xcno k xgu|²n hgp{gi gvw0 Mrgdgnudgti u^Àti gk c dktvqm^amqo^ap{ o gi qncm c|^au^av u o²i vqx^addk 37.222 i{gto gm u^ao^atc Àl kunqñf nev vctv u^Àm²i gugn²gn0 Fg o ci c ku j cpi u^Àn{q|c. jqi{ »xcv²ucp n¹gm gn^atpk c jgn|gvv pgo u|cdcf v¹o gi gu kunqñf|gtxg/ |²uugn gm²ti gu¹gvk²xgpv n¹h¹4¹gdd 7ô 8 Àl kunqñf v u|cdcf p{kp¹0 Xku|qpv ugo o kn¹r r gp ugo u|cdcf qn{cp r q¹kn¹ek r cnwo qv n¹4³pk co gn{c l³4³ hgn f²u^Àv¹gvx^ai lc0

C jgn|gn¹r. co gn{gv c o go qtc²pf wo /vtxg|gv gn²pm v¹t. gi{kn¹g p n¹g²tf gngudd²u n¹g d¹k cm cucdd f qmw gpwo qn²cn0 Mrgdgnudgti u|qn¹uc u|gtkp v o guu|k n n¹gl f k c v¹4²v p²gm k gn|o²p{gmn¹ co gn{gm p²m¹n c u|rx>pk¹ o ci{ct¹i n¹tf²ug. o kp v ucl^avqu r q¹kn¹ek rtq¹o c. pgo n¹ppg o gi²tj gv 0 Gm²mgf km ctt>n c x²i|vgu euc^aut>n co gn{gv c o ci{ct p²rgugf²uk o q|i c n¹qo tc c v¹4³m wcn¹o o²t¹v0 Cnrl^adcp x²xg c v¹4³m c| uk o ci{ct r¹nqu^ai qv gl gp c vt¹gvv o clf pgo vgn/ lgup nk¹wu|v¹qvc0 C hgn|cdcf w¹u w¹p pci{ p²rgugf²uk o q|i c n¹qo . kpf wv o gi. fg gnu uqtdcp u|gt¹gnv²u p²o gvngv vgr¹gv¹gm xku|qpv p{v¹ct>n dgp{qo vn c jqt^aw¹i 0 C|qpdcp h¹4¹gdd ô²u|cnu¹ p²u²u|cmngv¹ ô f k f cm cucp v¹4 gn c o ci{ct¹i. co gn{ u|kp v xku|c/ j>f¹lc c| Cn¹4¹fv0 ëC x²i x^acm qncm c n¹ ogp¹n u c pci{ o ci{ct c n¹4¹fk i>er qp¹nc¹ 3/4u|gug¹ngv o ci{ct¹i r¹ucpn¹kv ku²v gn¹tcu|vqc c Fwpcô Vku|c x³4i{²v0 C ZXKK0 u^a|cf qv g u|go r qvd>n pgo ku u|cdcf c v¹gur gf²u nu¹a pcm p¹gx|gl< ëgddgp c u^a|cf dcp x¹4³ c o ci{ct cp{^am v¹to²ngp{u¹ig c v¹to²u|gv¹4³vk pci{ m¹4¹fgm gv j c|^apm pgo|gvk xku|c j>f¹u¹t¹v0 G| c j vcm cu hqn{co ev u|gt¹pv o²i pgo u|pv o gi 0 C o ci{ct¹i Àcddep^aveuc/ r qv c Octqup²u c Ft^ax^ap u Àd>n n¹gl f k gn¹4¹gvk c D^apu¹i qv²u U|rx>pk¹v0 C u|rx>pk¹ o ci{ct¹i v¹g^av co gn{ l>²u|v c fwp^ap/ v¹rd>n gdd n c| ëctcp{cv²t i p²rg¹o d n n¹gn¹ nk pgo x²ngv¹/

u|Ăng p²r g^ug^fuk lgrgp²i. jcpgo n²v²xu^a|cfqu pci { qti c^pknw
h^ln f²u/o g^pgvgtg^fo²p{g0

G| c o²tngi gi {km ugtrgp{ lg0 C o^aukndc Mrgdgnudgti dgrgv^ul k
c jqt^aw^ai q⁰ T^ao wcv ctte. jqi { c f²n^ln^lx grgo glgp c vgtĂngv^p
jcp{cv^ludcp xcp0 3::2/dcp U^lrx»plc p²r²pgm o²i 9: ' /c jqt^av^l
u|gt^d xqⁿ. gl|gn u|go dgp c| 3;22ô 3;32 kf n^l4 gⁿ 3/4 gu^l v^pfg^l2dgp
c vgt^o2^ul gv^u u|crqtq^fa^ud»n t^alwn eucm 76 ' gug^w. co k p²r g^ug^fuk
U^gfc^p# U m^l4p³4gp c jqt^aw^ai o wcv jcp{cv» p²rk gt v< 3::;2/dgp
o²i 62' /qv vgw^m nk c| go n^lgw kf n^l4 u|crqtq^fa^ud»n xku^l qpv eucm
49' gukm t^alwn0 C xcn»^li dcp c|qpdc^p c jgn^l|gv v^lp o²i u^lĂn^lqucdd.
o l^pvc uvcu^l v^lnc u^a o cf cvco wcv^a n0

l^ltfgo gu^l rgu^l c vx^addk t²u^l gⁿgv n^l4 grgddt n u|go Ăi {tg xgppĂpm
o gtv o²n^l dgrknc^pv^luv gpi g^fpgm Mrgdgnudgti i q^pf q^rcvk^li^adc#0 ěC m^lt/
pcm o²n^l{tgi cv» gtn^l4euk v^ltucfcm k²u ic|fcu^lik qⁿck xcp^pcn0 C jqt/
x^aw^ai pcm o q^pf jcv^pk gi {gf Ārk n^l4²rqu^lv^lnc. c nev^lrk^wu rcr^li
ki gp cr^euq^p{ gtn^l4euk²u u|gⁿgo k u|p^lxqpc^mp^am u g^ppgm n^l4g^wgl^lv/
dgp c xcn^lu ugo h^llvk nk c|v c| gr^xgp gtn^l4euk jcv^luv. o gn^l p²m^lĂn
p²rgm o gi pgo^a njcv^pcn0 ~ G^l2tv c dgm j^lp²tv pgo m^ltr»w^lu
c m^lftw^pcm c rctqz^lo wuki jgxĂv h^llk h^pcvk^lowuc²u c o^au pgo/
|g^uk²i gm k^apv v^lr^ln^lv v^ll²n^l» i { n^l4g^v0 Eu f³4 o q^pf q^w c jqt^av^l
kun^lrc ku0 C rⁿqu^li 85' /c o²i 3;22/dcp ku c^per^lcd²vc xqⁿ u c|
p^lpk^lqⁿck^pk wf» 59' /dcp ct^ap{v^lcv^pwⁿ uq^m xqⁿ c o ci {ct²u p²o g⁰
Pci {q^p r^wu^l v^lv n^l4v^lm c| cm^lq^lqr0 I c|fcu^likci ku eu^lĂmg^pv c xgtug^p{/
n^lrgu²i Ăn o gtv c jcv^lt txk^l2nk nev^lq^aun^lf^au. vx^add^a c r^au^lqt/
n^lf^au gn^lq^mcvc ngv c tgp^lu^lgtgu o v^pn^lv^l0 C n^l4²rqu^lv^lnc gi {g^v/
ngp ô gi {2dn^lpv ugⁿl^lgu ô u|gⁿgo k v^lr^ln^lnc c ucl». co gn^l h^a|k^lck/
xcn²u vgt^ltku^l v^lwu uq^xpk^lo w^lxcn h^lmgⁿp m^lx²j^a|k r^qrk^lwu^qnev
p^gxgn fg²r^lv o v^pn^ltc pgo wf ugtng^pv^pl0 C j^kxcv^pqⁿtc o c^per^li i {3p{3k
n^l4ic|fcu^lik²u u|qel^lru h^lrcf^lcv x^at u jqi { c| ko r²tkwo i {cn^ltr^lu^p
n^lĂn xcp o²i p²rl»r^lvk n^l4ki c|ic^lv u ku0 O k^lfp^lgv 3/4u^lgx²xg Mrgdn/
dgti Ăi { r^llc. jqi { c jqt^av^lqm u^lrx»plck jgn^l|g^v. jc c f^qi q^m
n^lv^lj^atqo²x^lgf ki o²i q^l { h^lq^lpcm o g^pv g^vg^vp^lĂn 3/4u^lgqo r^lnk
c vgtĂngv g^jpl^lckci ku h^ln ng^m cf^lpkⁿ0 C h^lvgi g^vugⁿl n c| n^l4g^v/
ng^lkm jqi { Mrgdgnudgti c o c i {^at grgo gv. co gn^l c| uk o ci {ct rⁿqu/
u^li w^lfcⁿpv gi {gn^ltg o²i eucm dgu^lk^atqi t²ik h^l4f^l2tg. vgn^lp/
v^gw c vgt^o2^ul gv^u 3/4n^l4p^gn0

Igi {|g^vkd n c| ku n^lfg^lĂn jqi { gr^ul^lgt gp c U^ax^av v^ltv^qw
c o ci {ct grgo p²rtcl| jcv^lt^apcn0 C Dqu^lpk^ldc xcn» r^tqi tco o u|gt
v^lgr^l v^luv o^at eucm c^l2tv ku jgn^lv^lrg^ppgm i q^pf qⁿc. o gtv q^w pg^lgl gp

ngj gygw xqpc kn[gp e²rtc cmcm cu r^vhw^vpf kw^o qnev v^rf^r ipk⁰ Gr/ hqi cf v^c gi {km dk cm cu lphqto^a q^ta pcm c u| ctclgx>k Āi {x²fk n^o ctc o ci {ct²t²u gr³n⁷pgm c| v c v²gr⁷v jqi { p²r g^ugf²ukgi U r^x>p^kv ngm xku| u| gtgl pk cpcm gn^gp²tg. jqi { r q^rks^uckci n⁷pp{gr^o gp h^rcf w^m u jqi { o^at g pci { e²rtc xcn^o v^gmp^ogv^o ugo u| cdcf c o ci {ct v⁴gnx²ugngv u|² v^hti^a euq^rpw^on⁰ Dqu| p^ka dcp² u J gtegi qx^lp^a dcp v²p/ rgi o gi gr⁷i gf gw c| qwcpk o ci {ctqm i q^pf q|^a u^a xcn gi {²dn⁷pv r gf ki u| qti cm^o cu^p f q^ri q| qw o ci {ct u| lo r^a v^k m i { l^vu²p⁰ Vku| v²dcp xqrv c| en jqi { c u| r^x>pk^c e²mkv |² u^opm ku eum cm^ut xcn^o uwⁱ cv o gi. j c c hclul gtgv^o o grⁱ u² v c v^gtxgl² u| j kf gi u² i² xgn u c o gi h^pqv^o c^o t^ecvul^o k^o u² i^a v c| clv^o r^o v^o n^o e^a m^o p^f u² i^a xcn^r a^o tqu^o l^o v^o n⁰

—lc c Lw^k p/ gi {gu^o r^o v^o k o v^o n^o i^a n ugo xqrv t>| u² m^o n dgi k^o v^o g D eum t^g p^f n^o k^o Āk gi {²pk² i² p^g m pci {xq^o p^o n^o i^a pcm u| k^o u o v^o n^o c/ d^o i^a u² pcm c t² u| r^o v^o n^o d^o xcn^o gr^o g^o t^o r^o u^g ku o k^o p^o ki n^o u| u| qti cm^o a/ p^o cm² u p^o go w^o q^o n^o u^o q^o t^o d^o c^o f^o k^o r^o q^o a^o e^o k^o k v^o r^o k^o v^o p^o cm xqrv n^o u|³ p^o j^o g^o v c uk^o n^o t^o C o v^o n^o l^o n^o k^o p^o v^o c| g^o i q^o p^o q^o i^o u^o d^o c^o u| v^o p^o {cf> pci { n^o j^o g^o v^o u² i^o g^o m o^a t c| g^o n^o k^o f^o n^o d^o g^o o gi o w^o v^o u| v^o n^o 3; 27^o 8/ d^o c^o 35 k^o u^o q^o r^o o n^o i^o 4^o 3/ v^o c n^o i^o k^o g^o v^o |² x^o d^o g^o o^a t 450 | t^o v^o j^o g^o v. jqi { c u| go d^o g^o h^o u| Ān g^o t^o m c uk^o n^o t^o n^o i^o v^o t^o n^o i^o p^o e^o g^o p^o t^o k^o w^o v^o o^a c^o f^o a^o u^o d^o c^o n^o j^o f^o v^o n^o O^a t c o^a u^o q^o f^o k^o m² x^o d^o g^o xcn^o u² i^o qu j^o clu| c k^o p^o v^o o gi c| gi {gu^o r^o v^o k^o u^o q^o i^o k^o ² u v^o p^o k^o g^o n^o p^o C o v^o n^o v^o t^o u^o c^o m h^o g^o i^o {g^o v^o m jqi { o k^o p^o g^o k^o u^o q^o r^o o gi p^o {k^o u^o v^o c| Ā v^o p^o k^o m o gi l^o g^o r^o p^o ² u^o v^o Ā d^o n^o ² u Ā d^o n^o h^o n^o i^o pi q^o n^o i { n^o i^o 4^o g^o h^o i^o c^o f^o v^o C v^o p^o k^o m n^o i^o u^o d^o c^o d^o g^o n^o v^o g^o k^o gi {g^o v^o n^o i^o 4^o Ā Ā m ci {q^o p^o ku n^o v^o n^o C u| q^o i^o a^o r^o v^o p^o j^o | xqrv f^o g c n^o k^o p^o g^o n^o k^o a^o n^o i^o q^o v^o g^o t^o m a^o m^o m c u^o c^o t^o v^o C n^o i^o u^o d^o d^o n^o i^o 4^o q^o m^o v^o u^o Āi {k o k^o p^o u| v^o t^o g^o l^o k^o d^o g^o l^o g^o i^o {g^o v^o r^o g c n^o i^o 4^o g^o v^o o q^o p^o f^o v^o q^o n^o i^o v^o r^o p^o Ān c Lw^k p/ v^o p^o k^o m^o t^o c i q^o p^o q^o r^o c< `Cp{ci keu n^o q^o t^o v^o n^o p^o cm c| ² t^o |² n^o j^o g^o v^o v^o Ā d^o g^o u^o Ān h^o r^o h^o q^o i^o a^o u^o c| k^o u^o q^o i^o / d^o c^o i {c^o n^o t^o e^o p^o eum c| ² r^o Ā g^o v^o n^o i^o v^o c^o R^o g^o k^o i c| q^o m^o v^o o v^o n^o g^o r^o x^o g^o p^o h^o q^o i^o a^o u^o c| go d^o g^o t^o = c v^o p^o k^o c| k^o i c| k^o k^o u^o q^o r^o ² u p^o go c j^o q^o v^o c^o i^o C j^o k^o v^o u^o q^o v^o p^o k^o p^o a^o f^o i^o 4^o ² n c^o r^o w^o ku h^o l^o h^o u| v^o j^o g^o v l^o k^o u^o q^o i^o v^o c^o r^o m^o k^o / d^o c^o Āi { x² n^o g. jqi { uk^o i^o p^o { n^o i^o 4^o a^o n^o r^o q^o v^o k^o n^o p^o cm p^o go w^o q^o n^o u^o q^o t^o d^o c^o m^o Au l^o n^o i^o v^o v^o Ā d^o g^o u^o Ā r^o u^o c| gi {k^o m h^o q^o i^o a^o u^o c. o^a t r^o g^o k^o i ugo p^o go | g^o v^o m ugo k^o v^o | o^a p^o {g^o m p^o go a^o n^o j^o c^o v^o cm o gi c o v^o n^o i^o l^o w^o n^o d^o c^o t² u| w^o g^o m ³ / p^o | g^o v^o g^o u^o i^o g^o ² u^o a^o f^o q^o c^o n^o i^o u^o u² i^o g^o p^o m^o Āi^o

Eum gi {gf Ān U r^x>p^k dcp c| g^o n^o ² x^o v^o g^o f^o d^o g^o 93 k^o u^o q^o r^o c^o m^o w^o 32; v^o p^o k^o xcn 9387 i {g^o t^o g^o m^o n^o 3; 2; /d^o g^o c| gi {gu^o r^o v^o k^o u^o a^o v^o r^o k c U^a x^o xq^o p^o n^o v^o jqi { c| w^o q^o n^o > t^a d^o c^o j^o q^o |^a h^o q^o i^o l^o q^o c d^o q^o p^o k^o o ci {ctqm o gi o g^o v^o u² j^o g^o 0 C| g^o n^o q^o w^o c^o p^o k^o n^o i^o 4^o r^o q^o v^o c u| ctclgx>k o ci {ct k^o u^o q^o r^o. r^o g^o co g^o n^o i^o q^o i^o k^o c| q^o w^o c^o p^o k^o o ci {ct gi {gu^o r^o v^o v^o t^o v^o h^o p^o p^o

J co ctqucp Àcdd kp²|o²p{gm o clf Àcdd n⁴rqpqm Àcdd kunq¹m ngrngv¹ vgn⁰ Grikp¹wn c fwpck jcl»up²r mww^a rku i qpfql^a u¹ pcm j cvm cu rtqi tco o lc ku c o gi xcn»u¹u hgr⁰ O clf kpvt^a wuqm n⁴gvng¹ pgm ³/u¹ v¹pf¹ cmen u v Mrgdgnudgti ô o^at gmnqt. c Lwk¹p/ gi {gu¹gvk rtqi tco o x²i tgj cl^auc uqt^ap ô grlw c| gi {gvgo /r qrkkn¹ ki 0 Xcpem o²i vx^a ddk n¹i c^auqm ku c| gi {j^a| r qrkkn^e. u v cê m¹ r qrkkn^e hgr⁰ O kpf gl gnu uqtdep Mrgdgnudgti o w¹n¹lc0 Lgi { | gvkd n n¹vpk jqi { c| grkk crcrqv²u c t²u¹ rgvngv gi {ct^apv o ci c fqi ql w nk0 C| ³/u¹ gu u¹ r^ancv n¹ dgp vctvqc0 Mkvtxgl v^e. jqi {cp n¹gm cc gi {gu¹gv o w¹n¹lc dc hqvqu u¹ go²n¹gvngv dgner euqrp^k jqi {cp n¹gv c h¹rkkn¹ i qu¹» o w¹n¹v. h n¹gi c ucl¹» ki²p {d¹gx² v¹ r¹ xgn jcy c¹u¹ v¹ vppk jqi {cp n¹gv c Fr^ax^ap v¹n ku vt¹gvngmgn tgpfgm¹ r²euk r¹ur¹ m²i. vx^a dd^a c h wcm c pci {qdd d¹kv¹quqm c i {t² j qtx^a v h¹afk o ci {ct n⁴ r qu¹ v¹ n¹ ugi ¹u² i² v o gi p {gtpk^a n¹ci¹ dcp o kpf gpnk o qi i¹» u¹ fcpk cnk c| ¹À {pgm jcu¹ p^a nj cv0 Mrgdgnudgti grgo² dgp xcp< ci k¹ n² u h n¹gi eugr¹mu¹ kn0 J cvm cu kunq¹ c| c n¹u ddk mww¹ rco gpv² u kunq¹ r² r¹ v o k¹lu vt u¹ o^a tc# O k¹pv cpp {ku¹ qt o clf² r¹gv² dgp. o quv ku c v² n¹ r h¹af¹ jclqn uc¹ku¹ v¹ n¹ek cf cvqnev i { lv u c o gi h¹rgn gn n¹u¹ ¹Àgv w¹p c n¹gi pci {qdd v¹txu¹ gt u² i i gn² u tgp¹u¹ gt¹gu² i i gn lgr¹ak nk c| kunq¹ m jgn² v u j c gi { rqp¹qv c o w¹n¹ v dgh¹gl v^e. c hqn¹ / w¹ v¹ u n¹gv u² i² v xgu¹ k e² n¹ c. u¹ o¹ ¹u¹ cx^a p. jqn² u o k¹g xcp o² i u¹ ¹Àm² i 0 Ugv jqi { 3;32/tg. co knqt Àcdd p² r u^a o¹ n¹ u n⁴ gvng¹ km o gpv n v¹ dd kunq¹ lc² ncp¹ v¹ lc n¹gi {gp0 C| w¹ dd¹ k¹ n¹» n o gi d¹ j c w¹ p² r u^a o¹ n¹ u k d¹ kv¹ quqnev tgo² r0 O k¹ v¹ c eucm ugv¹ gv¹ xqpc. jqi { U¹ gpv Kvx^a p d¹ kv¹ cm^a dcp jqu¹ ¹À k¹ tg gl n¹gu¹ c| w¹qn¹» o ci {cA p² r u^a o¹ n¹ u. co gn¹ pgm cf cvk gl g¹ h¹ n¹ ¹À c| qt u^a i vx^a ddk uqt^a pcm crn¹ v¹ u¹ dcp. u v o² i vt¹ ¹Àgv v¹ n¹ p¹ v² dgp ku pci { u¹ l¹ gr gv h¹ j pcm¹ l^a u¹ cp¹ k0 C| Lwk¹ p/ v¹ p¹ v¹ ko clf c n⁴ o² tg p² | pgmc j qtx^a v¹ p¹ cm

C| gi {u² i gup¹ gn¹ qpf¹ qv c¹ n¹ek¹ t² u¹ gkv c n⁴ gvng¹ n¹ dgp lgr¹ / jgl¹ ¹À n o gi < p² r qm¹ v¹ u² u vx^a dd n¹ r |² u ô p² r n¹ p { x¹ v¹ tcm² u p² r k¹ qu¹ cuo^a p { qm ô i c¹ fcu¹ i qm¹ v¹ u0 ô xgl gv n¹ r |² u ô gi {j^a | /² u m¹ r qrkkn¹ kxqpc w¹ u¹ uqn0 P² | ¹À nuqt¹ dcp g t² u¹ gnv¹ #

C p² r qm¹ v¹ u^a n¹ ci¹ dcp c| gi {gu p² r gugd¹ v¹ rgr ¹À¹ vgn¹ p crcr¹ v¹ qv kunq¹ m x² i g¹ v¹ n0 Fg gn hqtf wv c| c| g¹gv ku jqi { c o ci {ctu¹ i u² w¹ u¹ t¹ v¹ p² n0 K¹ {gp jgn¹ g¹ n¹ p o gi h¹rgn n⁴ r qp¹ wcn ¹À p0 kunq¹ / n⁴ | gvngv n¹ v¹ u¹ v¹ gv¹ m co gn¹ gm o k¹ v¹ k r¹ gv¹ m c euq¹ n¹ c qt u^a i d^a p n¹ u dd n¹ v¹ u¹ v¹ v¹ c¹ k kunq¹ n⁴ | gvng¹ p¹ n0 C| kunq¹ m h¹ n¹ u¹ gt¹ gr² ug c n¹gv n¹gi i qpf¹ qu¹ d¹ xq¹ n0 C lgr¹ p { gm h¹ n¹ u¹ uqm ud0 cm¹ m c¹ u^a / dcp c j qtx^a v¹ p¹ pgo | gk² t² n¹ p² u² i² tg c x² i r¹ v¹ n¹ ki x¹ i^a | vcm

C v¹ p¹ v¹ n¹ v¹ o^a t r¹ g¹ p¹ j k¹ cv¹ u¹ n¹ c x¹ n¹ v¹ n¹ p¹ v¹ w¹ n¹ r¹ g¹ v¹ m

nk c eu^a mqt{ck dclck² u ul cdcf nek^a cp^u n^r | nlgp. Vgto² ul gv
ul gt rgi m^h p rgi gu kunqrchen^h {grgvv nngwv ul gtxgl pk co gn^h cf/
o lplu^h v^h k² u r g f ci » i lck ul go r qpv^d » n k^a p { qvc c j qtx^a v d^a p wⁿ
l^x a j ci { qw ucl^a vqu v p v g t x g m c i r l^a p h q n } o v p n^h 0 C | cf/
o lplu^h v^h e^h v c x² i r v g n k i r g i { u l g t u^h g w² m j q i { c v p^u c o c i c
k f g l² v k p n^h d d c v p^u u t c² u v x^a d d n^r |² u t g h q t f^h j c u c u 0 C | k u n q r^h m
k i c | i c^h v^h u c v^h r v g v g p o n^h f n c^h d e p u l c d^a n^h x q n j q i { c
n^h r q p v o k p f g p n^h t² u t g r q u c h q t f w^h x c n x^a r u l q n 0

X q n c m q n^h c p j g n^h g m c o g n^h g n g p c v p n^h g n g u g m o c i { c t k u n q r^h | /
v^h v^h u^h v g i { a n c i^h p p g o r g i g v g w d k v u^h k p k 0 C | k n^h g p n^h p {² n t n c
i { g t o g n g v k p v t p^a w u q n d c i { l^h v^h n 0 C | g u k n^h g p k p v t p^a w u v c
x c n^h u /² u n^h q m c v^h u^h i { k o l p k u l v^h t k w o I {² n^h p { g u g p i^h v u^h g v g o I g r g p /
v^h n g p { k p v t p^a w u / j^a n } c v c r m w w n k c | w^h p R² e u g w c j q n c | g i { g u^h g v
p g m j g n^h k d k q w^h i c k u o n^h f^h v^h 0

P c i { h p v q u^a i A o q | | c p e v x q n v c f w p c k j c l » u p² r m w w^a r k u
i q p f q l^a u c 0 M r g d g n d g t i g i q p f q r^h u^h d e p c | A 0 p 0 j c l » u e p h q n^h c o q m
c L w k^h p / k u n q r^h m² f g u g u w² t g k x q n c n 0 P g i q p f q r l w m j q i { x c r o k
g j c p { c i q i j c w } o g p p { k u² i t n x q n v u l » 0 C | 3; 220 k p² r u l^a o i^h i^h u 3; 483
h q n^h c o k j c l » u v^h v^h u l g r g f k i c m^h i^h f k n k n^h v n l g p v g r g n n g v p g o
w f v g r t p k 0 M^h A^h A^h m t g^a r k u u l^a o^h v^h u u l g t k p v n d 0 ; 2' / p { k x q n v c
o c i { c t 0 G | g m p g m i { g t o g n g k o c o k p v c | g i { k m u l c n^h t v o c i^a v n k /
h e l g l v g o A i { p w g m h g n o k p v c h q n } » o g p k x c f x k^a i 0 C o k n q t c
n^h t f² u h p v q u^a i^a t c t^a g u l o² n g m g n u l^h c x c n^h u /² u n^h q m c v^h u^h i { k
o l p k u l v^h t k w o t g p f g l g w c | Q t u l^a i q u J c l » u u l^h g u² i n g l f g o² p { g l² u² t g
v p h q n^h c o q n e v 0 C v p^u u c m n t r g p f A^h v h g n c o k n q t c L w k^h p / g i { g u^h g v
x g v g c n^h t f² u v i q p f q l^a u^h d c 0 C | g n u j c l » u e p h q n^h c o 3; 32 l c p w^h t l^a /
d e p p { v^h o g i c E k i^a p { u l k i g v g p o² i r g f k i g i { i c d q p e u l^a n^h } j c l » p c m
v p v t g o o² a v c r n^h q w^h d r^h u A^h g i² d g p 0 M^h v j^a t q o² x o A^h x c g l g m
c v g t o² u l g u l g t r g i t^h k k^h g w v e p h q n^h c o q m o^a t V k g n \ k o q p {
R c u c w D² e u M q o^a t q o . — h g u v . ~ d w f c . Q t u x c v^h r k n k n^h v k l g p k u
g i k p f w a c n 0 W i { c p e u c m c L w k^h p / g i { g u^h g v i q p f q u n q f q w c x c u^a t p e r k
k u g p k u l v g n g v m o g n g w o g i h e r g n q i k c u o^a p { q n t » n k u 0 C | g i { g u^h g v
x g l v u² i g n k c i^h n c c o q | i » n^h p { x g u n^h f^a n e v c 42 o 52 n^h g v p { k
n^h p { x d n^h v^h u l g x^a n j c v q w i { l v g o² p { g n g v c o g n^h g m g i { k m w u^a n^h t » n
c o^a u k n t c x^a p f q t q n c j c n k i k c u^h m n g v 0

U l p v g o g i j c w » c p p c i { h k i { g n g o t g o² n c w c M r g d g n d g t i c | k f g i g p /
d g p² n o c i { c t u^h i q i k c u o^a p { c l p c m A^h {² v 0 K c v c k n^h v^h x c p 3; 32 /
m n g i { o g o q t c p f w o / v g t x g l g v g < G o n^h n k c v c p² r k g u k q f e r q o l g r g p /
v u² i² t n² u c | k f g i g p d g p² n o c i { c t u^h i u l^a o^a t c n k c f e p f } p e r v^h t e m » 0
O l g n w g l v k u o g t v g p² o . t^a n g m o w c v p q o . j q i { c L w k^h p / k u n q r^h m

pgo eucm c i{gto gnngv vcp^hqw³m jcpgo. co gpp{kg rgi gvgw. x³ncn³m c hgrp wgm ngmk i qpfq|^au³v ku0 C jcto »pkwo qw xqrv o kp/ fgp kunq³dcp< c vcp^h»m p²j c o ci {ct ko^af³u³i cn W³pkncv ku vctvwn0 C| gi {gu³gv glgtu^ao tc tgpfgng c| ko cn³p{xngv jqi { rgi gv rgi o kpf gp o ci {ct j^adc lwuq p dgn n³Än0 MÄ³p³u³gp p²r u| gt xqrv c *M to gj gi {k T} / uclko d*» e³p ko cn³p{x0 G| gp v³Än gp rgi i qpf fcn hki {gn²m o kv qixcupem c hixcndcp c rgi u| ^hxgugddgp u gdd n c| qixcuo^ap{cp{ci d>n^a n³fw³m ³4u| g c o ci {ct p²r n³p{x³v tcnv0 C j^an>| cv vglgf gm²v o wcvlc. jqi { 3; 34/dgp U rxx>pk²dcp²u Dqu| pk²dcp o^at 397 o ci {ct p²r n³p{x³v t o n³4³Äv u v ³4u| g/ o n³4³Äv o gtv c hixcm cn³teucm c| wu^an{jcl>m tgp f u| gt gvgp eugt²n²mc| qixcuo^ap{cp{ci qv0

Mrgdngdgti o gi hki {ngv. jqi { c pci {qdd v³o gi gntg c o gi hrgn o »f qp ^htv nkugdd n³p{xgnpgm o²n³gdd c jcv³uwm o kp v cn³t c per k uclvpcn0 G| gngv v³4du| ³4 gr³ixcu³m u u| gmgo kgi v³rlgugp o gi / go²u| v³Än0 MÄ³p³u³gp pci { jcv³uwm xcp c nergp^atkwo qmpcn0 C| gi {u| gt go dgt vi {cpku c per ngn²tg. c| Äpprgntg xqpcv³u| »ri c nergp^atkwo dcp jgn{gu cfvqnev v³ri n co k dk³cm^av c rgi pci {qdd o²t²v³ndep h³ri qm| c0 Go n³fw o go qtcpf wo /vgtxg| gv²dgp xcn³u³i / i cn r³ngmcpk vpw^ap{qm c³ri l^ap uÄi gwg. jqi { c Lw³k³p/gi {gu³gv c| kf gi gpdgp²n o ci {ctu³i pgo| gk i qpfq|^au³pcm gu| n³4 gk n³4³Äv c per³tv gu tcpi Ä hki {grgo dgp t²u| gu³v³Än0 C n³4²trngv m o^at 3; 2:/ dcp o gi kpf w³cm u c| qppcn c rgi pci {qdd ukngtgn dk³wcn0 Mrgdngdgti lqi i cn jcp i uÄn| qv. jqi { c u| rxx>plek o ci {ctu³i u^ao^atc nkcfqw per³t jcv³uc o kpf gp x^atenq|^auv hgn³Än Än# C| gm²xdgp 37.222. c o^auqf kndep 42.222. c jcto cf kndep 45.222 r²ri^ap{tc xqrv u| Än²i 0 C u²vqu| v³utc qn{cp v³n³rgvu. o kpf gp Äx² gn³i c| » u| gtxg| gvgv r³v³u| v³wgm jqi { gl c per³t xcn>dcp o kpf gp Äx² grlwqw. cj qx^a u^ap³n0 C tqo^aplek o ci {ctqm u^ao^atc ku cfcm nk MÄ³p per³tv. fg c| gtgf o²p{gmo gi ugo n³4 gr³fw²mc u| rxx>plekcnv0

C| go r³nk³wcn Mrgdngdgti c o^at hn{co cxdcp r³x cnel³v Ä. u²rgugdd c³ri qntc n³4^aple hgm³vpl0 C u| rxx>plek cnel³ vx^add hn{p²m fg ³4u| gner euqj c» rppg. rgi c³ri dd dk³q{qu o²t²v³n³i. c tqo^aplek dwnxk³ck²u dqu| plck per³vtcm n³tf²u²xg³0 Pgo rppg e²n| gt gi {u²i gu per³tv u| gtngu| v³pk o gtv c mÄ³p rgi gu xku| qp{qm nen qnxgv³pÄn u^ao qipk ngn0 J c c| gi²u| per³t 70 8 ^hxtg tÄ pc. cdd>n n³4³u rgi gvp 50 6 ^hk²u mÄ³p rgi gu t²u| rgi gvp 30 4 ^hk0 äC| ki c| o ci {ct hclu| gtgv³v²dtgu| v ekmgngv. tgo gn³»kpm gi {/gi { ³4³Än| geu n³4³Än²p{²v. pgo| gk o Änwpm l³p{nt^ad>n xgw r^at²rgv tcl| qv²u v³4²v³pk t²u| rgv. p²j^ap{ u| ²r kqf cm k gr³du| ²r³uv c dwnq/

xlɔck tqo^aplck²u dqu|plck o ci {ct gi {ct^apv jcu|qppcn qrkuj cŋ
 Gi {²dnʔpv c|qpdcp c vctvŋqo ŋi {gp o^au²u o^au⁰ C dwnjxlɔck
 o ci {ctqndcp rŋo grxgpgp²n c hclujgtvgv c Pci {o ci {ctqu^ai dc
 xcŋ xku|cx^ai »f^au⁰ Gi v vcr lɔvɔucp^arqrpk ŋgm t^ao wɛwɛ ctc.
 jqi { o knʔpv vʔtjgpgm xku|c ŋi cŋ^add gi {gugm c dqrŋqi wŋu tgo²p²/
 xgrŋo —i {ku pci { dcl. jqi { c p {qrexpcu²xgm eu^api »/ŋmgugf²ug
 cpp {kɛ ŋŋuj cf w# Kuo gtvgpk ŋjgv u^ao wntc c U|gpv N^au|ŋ/V^atuwɛv
 vx^add^a c tghqto^awu gi {j^a| vʔ4gnx²ugkv c m^aŋiʔ4fk o ci {ctqm iq/
 fqi^auc vt²p⁰ xC tqo^aplck o ci {ctqmpcm cŋkm t²u|dgp krctquqm
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 vtglu|ŋf²u Awʔ4 k c| wɔddkŋv rŋfki h ŋi c tqo^ap eugŋ^af vʔ4x²p {/
 t n c j qpqu^aik nks^apf qŋ^auk²u Aw^arx²nʔ4x²p {t n ŋgm^ancpf »cp
 hŋxkŋi qu^acpk o gtv c| kf^axi » tgpfgm²ugm pgo kuo gt²ug vʔ²p/
 vgrp dclv qnu| pgnkŋ⁰ C dqu|plck o ci {ctu^aiqv kuo²v c o ci c ucl^aqu
 jkcv^au^atc ŋgm t^agu⁰o²ŋvpl⁰ Kcl k mŋgdgudgti k ʔ³ŋgv jqi { c Dqu|/
 pl²dcp^aŋqo^auq| » o ci {ct nɛvq^am u^ao^atc o²i o gi hŋgn nɛvqpc/
 fcŋmhŋx²vŋ^atg ku i qpf qŋ#

Hcp^a|k^alc c|qpdcp vx^add u^ai wŋ u c m^aŋiʔ4fk o ci {ctqm w^ap
 i qpf qn c|qntc c dŋiʔ4fkŋt^ag ku. cŋkm c| kf gi gp lŋŋi pgo|gku²ik
 gi {j^a|cm ŋgtvgkɔ dŋŋ^an ŋʔp {vgrpgm²ŋpk u²r rgp gl²tv m^aŋiʔ4ŋi gu
 x²fgrgo tg xcp u| ŋm^ai ŋm^ac c i ʔ4ʔ4 nɛvqŋku²u i ʔ4ʔ4 ŋŋŋxk o c/
 i {ctqntc⁰ Gi gndg c vʔ⁰gi gndg dŋg cnetlc xlɔpk c o ci {ct nkwti k
 x^ai {^av ô gnu uqtdcp u|k^av^ap o gi hŋgn pcr^av^atc m^aŋiʔ4p⁰ Cffki ku.
 co^aŋ gl ŋgtgu|v^aŋk^agv ŋgu u co^aŋ c vtXu|gt vtglu|v^au cnef^an^ackv
 ŋ ŋjgv i { |pk c o^at gŋgtl^afv pcr^av^atc m^aŋiʔ4p⁰ cnet o gi hŋgn
 ekŋŋŋgv ŋc^avpl⁰ G ekŋŋŋp^agm o²i c i qpf qŋv gpg²v ku ŋŋi { |k#
 H ŋi ctt »n cnetlc x²tgkv hŋxkŋi qu^acpk jqi {cp xkugm^al gpgm^a0-
 p²ru^ao^an^an^aup^an⁰ U jc o clf gi {u|gt vŋgu i ||gn o gi k^afvn c p {gŋx/
 jcv^atcnɛk. c pcr^av^at/ŋi {gv ku vx^add ŋjgv hŋŋu|vpl⁰ O k^afp gi {gu
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 o ci {ctu^ai c| gi²u| xqpcŋp hŋ ŋppg xkŋi qu^aŋjcv » c pgo|gku²i²v
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 ŋi^ap nk ŋppg qmɔvjcv » c pgo|gk x²fgr²u gu|ŋi^agk^a Mŋgdgudgti
 gŋi^ar|gŋ^au^adgp c p²r pcr^av^at ŋi { ŋgw xqpc c o ci {ctu^ai pgo|gk
 x²fgr²pgm² {kŋŋi gŋgtl^afv d²u ŋi jcv^auqudd gu|ŋi^ag#

U c n^au dd nŋqto^an^a p^agqpc^aqpcŋi⁰ wu u|grgo²dgp c| kŋŋŋ
 o^at gŋŋt c m^aŋiʔ4c²u c hclujgtvgv o gŋgw jcv^acv^aucp^arqr^alc c
 vʔ⁰gi gm ic|fcu^aik nŋr|²v^a ku⁰ C Lw^ai^ap/vp^aŋ^am vx^addn^ar| gn/
 cf^auckdcp pci { u|gtgrgv l^au|qvc m c ic|fcu^aikxqpcvŋj^au^acn⁰

Tgpf gmg|²u^āntg^amv j^atqo jqtq|jcv» xgv^{fl}/i²r. co gn|gm gi {kn hcnw>n c o^aukndc x^apfqtqncn0 C vpf^{fl}m ulgtxg|²vm o gi c jkgn/ ul³kgvng|gvgngv. m cf^vm x²tgknpgm c lqik vcp^aeuqnev0 |rfp^amcm) c hclctqo hk. vgp²ul^amv. xgv o ci/ ²u gi {²d jcuqpn» cnel>npcm O kpf|g| c Lwk^ap/|gi {gu^āngv qncm c crw hqn⁰ C jkgn/ul³kgvng|gvgm r²gu^{fl}²v gmuqtdep c pcr^vtem rtqr ci^an^am jqi { c u^ān|qu hgn/ ^vgngmgn fqi|q|». c n³4eu³p³ngv uqnu|qt x^atevcpwn hgm qpf» ulgt²u jtx^av r²p|kp^v|gvgm n c| qwcpk o ci {ctqm h^āi i gvgp^{fl}|j gu²m o ci wnev0 T³klf gi { gu|vopf crw 49 Ā ul³kgvng|gv crmw0 U^ao wn 3; 32/dgp c Ft^axc/U^axc n³4³4v gr²tv c 84/v. 3; 34/dgp rgfki c 97/³40 W {cpeum c pcr^vtem Ā^āp vglgf v gn c ul>tx^ap{/o ci {ctqm n³4³4v c o²j²ulng²u ²u c ugn|go jgtp{>/vgp²ul^vu0 X²i Ān c Lwk^ap/|gi {gu^āngv gn o q|f^{fl}qvc c h^ā4f ulgt²uv ku< c dcdlpci qtck ukngtu rctegn^āu dgd|qp{^{fl}qvc. jqi { c l³kgv dgp. jc c xku|qp{qm i {³ngtgugp o gi pgo x^anq|pcm g^vtgp uqnev rgjgvgw xqpc v rg x^atpk0 Mrgdgnudgti gi {km o wpnev^vtuc jgn|gugp^amcr^{fl}qvc o gi. jqi { c| gi {gu^āngv ěc^vtu/ qtu^āi qndep²n o ci {ctu^ai qv o kpf gp k^ap{dep ulgtxgugp cnetv o gi gt u^{fl}gpk c hcljctedep hgn²tv|pk t²u²tg o ci cudd mw^āv d^kvu^{fl}cpk²u c| co Āi {ku rwul wn» jtx^av ²u ulgt^d p²r ggo gmgm x^{fl}qw jcte^av ^{fl}{ gtgf o²p {gugdd² vgppl0 I qpf qunqf pk n^{fl}x^apv gi {²d/ n²pv ctt>n ku. jqi { o gi hrgn o ci {ct krctqu^vqpeqv jgn|g|gw gn c| cp{cqtul^ai/ dep. c|cn c e²mcn jqi { kv o gvgt²i^āngv crcr qucp nkcpwxc o clf xgtugp {n^rrgugp xku|co gplpgm ul Ān h^ā4f l^āntg0 Cttc ku xqiv i qpf lc. jqi { c o ci {ct ngtgungf ggo pgm c Lwk^ap/|gi {gu^āngv o gi hrgn rtq/ rci cpf^aveuk^arlqp0

O²i pci {qdd i qpf lc xqiv c xg|gv/n^rr|²utg0 C m^āh^ā4f k o ci {ctqm ul^ao^atc c vpf^{fl}m o gn^r o ci {ct qtxquqnev »u i {>| {ulgt²ul gngv cnetv o wpn^ādc^an^{fl}cpk0 Vgto²ul gvgugp o kpf|g| eum ³4|^vpf^{fl}cm ugi ^{fl}u²i²/ xgn o gi gvgw0 3; 34/dgp o^at ; o ci {ct ³4|^vpf^{fl}cu vpw c r²euk n³4²r/ kunq^āndcp0 M²u dd |c| cnel> vx^add^vi wn0 U Ām²i xqiv o gi hrgn kpvtg^awuqntc ku0 O gi tgp^{fl}v c| c i qpf qu^ai. co gm|gn c| kpvtg^aw uqm jgn²v ngtguk ô i qpf qrcvo gpg^vv lgi { |gvkl n p {qo qp n³kgv/ jgvl^ān0 Xg|gv/i qpf qrcv< c f²ng ulcnev o ci {ctqm vj gw²i gu i {gt/ o gngld n dcm^āpk jkcv^vupm ul^ao^atc gn o wpn^āuqnev ngm pgxgrpl0 J c vpw^ap {k kfgl^ām crw gnu>tev ngu|pgm gij gn|g|xg. cmuqt c xg|g/ v m gn w r²dgi gu|og v^āp pgo jcv rg rgn^ām o²n²ki0 ěC| gu|og eum cmuqt ³4j gv vugv jc c h^ām cppcm^amcpf» dgjcv^vuc crw pgxgmgf/ x²p hgn c| dgpp^ām c jkcv^vu²t|²u²x² ²u w^ācv^x^a hgn fkn0 Dwf c/ rgugv pgo vtvlc cmcm cupcm ěc pgo|gvk²t|²u gt ugdd^atco^apcm

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Mrgdgn^dgti o k^lgp cne^l2^v n²u dd ku c fl^pco k^wu d x^Ä2^u lgn/ rgo g|vg0 C Lw^k2^p/gi {gu^Ärgv ku jco ctqucp v^Än²r^vg. rgi cⁿdd gi {gu rqp^vqup. gtgf gk e²mkv |²u²0 ^ll { cⁿm^w nk o k^vgi { rctgti qn²pv c o qj co gf^ap dqup^am i {gto gngm o ci {ctqu^laⁱk pgxng^v2^u2^{pgm} cne^l2^{lc}0 N³w^m jqi { Mrgdgn^dgti pgo i qpf qrv Dqu|pk²dcp o ci {ct v^gtlgu|ng^f2^{ut}g0 C|v c|qpdep pci {qp hqpvupcm v^tv^wc. jqi { c o qpct/ ej^kpcm g|gp c t²u²p o gpv n v⁴dd ²u o gpv n gr^xgpgdd tqⁿqup|gp^xv v^tv^riⁿu^lq^l0 U o gi h^ki {gn^g. jqi { c dqup^am n^uto^ap { ³4u|v²pf ^llc^lcn c |^ai^ta^{dk} ²u d²euk h k^uqⁿiⁿu^l v^pw» dqup^am h^lcm o k^lgp v^Ä gu o ci {ct/ i { n³4^gwⁿ u|qmc^m j c|^al^wndc xku|c^v2^{tp}l0 Gi {k^f dgp ctte i qpf qrv. jqi { v^rfp U|ctclx»dcp nrg²pg n^Ä4² lqi cne^f2^ol^v r²vu^lg^lpk0 M²u dd o²i ku e²rtcx|g v ddp²m v^rnc. jc o gpv n v⁴dd o qj co gf^ap h^kÄ o ci {ct h³4^f3⁴ p {g^tk nk²r|²u²0 C n²tf²u o gi qf^auc pgo ku xq^v qn^lcp gi {u|gt. o k^v gu r k^lcp^vut^c i qpf qrp^k rjⁱgv²g0 Gn u|³4 Dw^fcr^gut^g v³4³4^lg^w2^m ng⁰ Fg uqm dcl xq^v c| ²v^gl²u^Ärgn c h^l/xk^ug^ru^g0 T^ac^au^wn o²i v^lclck r^gw^m gi { v^Äl» j qtx^av gi {gu^Ärgv²gn0 Gmq^t o gt^Äv hgn c f gdtgeg²pk o gi qf^au v^gtxg0 Fgdtgeg²ptg Mrgdgn^dgti v⁴dd

qnd>n i qpf qnd Veri p gnu uqtdcp c|²tv ogtv c o²i hgn n|²utc x^at»
 gi {gvgo gv vku|vc rcr kquncr pcm vgnkpvwg. co ktg o clf t^a rgi gv fpk c
 o ci {ctufi f²rk² u ngrgvk jkxcv^axcn³au|ghAi wfqo^ap{^aicm rgi/
 o ci cucdd hqnqp xcn» o xgr²u²pgm rtqi tco o¹a⁰ O clf c o ci c jgn²p
 r²pk hqi lwn o k|gp o guu|go gp vgtxgk xqncm Mrgdgnudgti pgm ô
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 o gi qn^au gi {²dn²pv c| gnu pgj²|u²igm rgn²f²ug w²p dgx^an⁰ Gi {g/
 n tg o ci^a p^a|cnp^an jgn|g²m gn c dqup{^am klcnev⁰ M²4 An²m v²ddgp
 c j^adqt² w²p ku j^an²ucp go r²ngl vgm xku|c f²k mqt²m²p{gkntg⁰
 J c c x²i|gv c n|²tgv hqn|cv²v n²gv² pgo x^ailc. dk qp{^atc uqm²t²/
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 ku o ctfv⁰ D H²m ucl^avu e²hc ngw xqpc. jqi { ègi {hgn n c o ci {ctufi.
 o^auhgn n c+ Dqu|pk²dcp² u J gtegi qxlp^adcp² n o qj co gf^apqm n²4² w²
²au|gn²4²vg²ugnv r²vu|vgp u c|qnev^ar qic² u n|hglruu|gi⁰ Wi {cp/
 eucmf qri q|qwc n²u dd r²vu|vgp dqup{^amlpvt^awuqmv²k²p ku⁰

O^at gl c| cne²k cpp{^akc n²p{gupgm dk qp{w^a jqi { n²u dd *3; 38/
 dcp+ c Lwk²p|gi {gu²gv ng ku o qpfqw t>rc. knv rgi t^ad²|vc c O ci {ct
 MwnAn²4² rqpvc/ *c n²u ddk Vw^apk V^atuc²i tc⁰ O²i n²p{gugdd xqiv
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 gl c i gu|wu o wcvlc vcfp c rgi u|go r²ngvugddgp. jqx^a hgn f²4² w² Mrg/
 dgnudgti n²4² dgp c Lwk²p|gi {gu²gv# C o gi d²|jcw» cfvqnev g rqpvc
 xqpcv²u⁰ »rci Mrgdgnudgti o ci c lgi {g|vg hgn 3; 34/dgp n²v go r²ntcv
 vgtxgl g²dgp⁰ C| gi {km c dqu|pk² o^aukm c j gtegi qxlpc² nevqknw²uqntc
 xqpcv²u⁰ kn⁰

Gr²4^a t>dcp wf pwpm ngm jqi { c Lwk²p|gi {gu²gv dgp fqi q| »
 o wnev²tucm t²x²p Mrgdgnudgti c rgi rqpvcddcp v²l²nu⁰ »fpk wfqw
 o kpf gp o ci {ct²tfgm o q|cpct>n⁰ | tgv²Ar²uglv ctte jcu|p^anc hgn
 jqi { u|²Am²i gug²p c| knv²ngu v²p{gl mp²nn²4² dgr²r lgp⁰

Kv ku gl v²4²pv⁰ C dqu|pk² nevqknw²uqnm n²v r^atvc u|cnef vcn⁰
 C| gi {km r^atv Ucfngt²tugm o gngw hqi rnv^an²uv cnk c nevqre²ku wu
 Ai {²v² au|gner euqnc c j qtx^av pcelqpcrk⁰ u wucn c o^aukm r^atv c o²i
 v²4² m k²nd n Dqu|pk²dcp o ctfv hgtgpetgp²Agm o gngw hqi rnv^an²uv
 cnknv n Ucfngt c|v n²k^apv. jqi { xqpwlcpcm xku|c egn²knlc u cf²m
^av c| gi {j^a|k Ai {gm k^ap{²v²uv^ancr²dcp c| gi {j^a| nqto^ap{|^auv
 c xk²ik rcrufi pcn⁰ C o ci {ct²tfgm qw j²À>fqw o gi. jqi { co²
 Ucfngt rcr lck cmem kci c vterk⁰ wu j²k²gk xqncm o ci {cti { r²4²gvv
 j kfgwgm u v c vgo rmo qnev ku c uk^at r qrk^an²u r tqh²p r lceck^a
 cxcv²m o²i r gfi c j kxcvqnev² u kun²n²ev gnr pci {u^ao À jqt/

x^av dgx^a pfqtqiv jgn(gu^ru²xgn cffki c hgtgpegugmv n tgo²pk rñjgv^gw.
 jqi{ c t²ik dqu|pkck nevqknwqntc v^ocu|nqfxc. ²r rgp gmgpñg|
 k^ap{dcp hglvpgm oclf nk o n⁴2u0 C tgo²p{v cñ^vo cu|vqc c|
 c n⁴Äro²p{ ku. jqi{ n⁴ÄÄm v⁴ddgp o ci{ct h⁴af³p p{gtv^m nkñr²/
 uÄngv. ¶|{ c o quctk²u dcp|cnwck hgtgpegu rÄur³n⁴m ku Oci{ct/
 qtul^ai qp vpwncn0 Mrgdgnudgti glgp c rqpvp nñk^aplc c n⁴tf²uv o gi/
 tci cf pk0 Okgn c hgtgpegu rtxkpek^am pci{qp ul gi²p{gm u ¶|{ c rcr/
 p³xgp²ngknv0 C o kpul vtgp³m n⁴2^utg dlq^atc o kpf gp o ci{ct
 rÄur³m x^ancm|p²m gi{/n⁴v lgn⁴w hgn²vñ²tg# Hqpqupcm vtwc^a c|v
 ku. jqi{ T»o^adc gn⁴vj cw h rcr lcpm c dqu|pkck hgtgpegugmpgm
 gñ⁴evk^v o qi c^v vvp{Äwcpn0

C lrgm ulgtlv c| cmqtck o kpul vtgp³m *Nwn⁴eu N^au|n»+ Hk|g/
 ngo dg ku xgv^g Mrgdgnudgti gn vtlgul^vu²0 Gttg vx^add hqñvcw cnelk/
 l^av o quv o^at J gtegi qxkpc k^ap{^adcp0 C| gn n⁴u|¶v r²ugm o gi^vvg/
 r²tg rñ⁴vf^g c dwfck hgtgpegu j^a|h p³n⁴w. o cic ku v⁴ti{cñ c o quctk
 rÄur³mgn u o gi gi{gl gw xgv^g cddep. jqi{ pgo eum rcr qnev. jcpgo
 xkñⁱlcnev ku mÄf gpgm oclf o ci{ct knqñ⁴n⁴dc0 C| cnelk^v gl cmñqo/
 o cn ku l>t²ul v c| cpp{ktc dgx^aiv Lwñ^ap/gi{guÄgv Äl^ap cñctc rñdq/
 p{qñ⁴ckp0

G|gm w³p pgo rñul o gi rñr . jc c| gi{guÄgv dgxqpwn c mÄr qñk^k/
 n⁴dc0 rñi cñ⁴ddku Mrgdgnudgti vt²xgkdp0 3;35/dcp lcx^adcp hqñkm c
 Dcm⁴p/j^adqtÄ co knqt Mrgdgnudgti c j^adqtÄ dgñgl²u²tg i qpf qñc
 o^atku hñj⁴klc c o kpul vtgp³m hki ¶|gr²v c|qntc c rñjgv^u2ⁱgn²g. co g/
 n⁴gm Cñ^apk^adcp p{¶j cvpcn0 G| c n⁴tf²u ulgtlv^g gi{^ancñ⁴p pgo^am
 qñ⁴cp o guul^g v nÄp^m o kpv gu rkn⁴pcvc rñ⁴u|cp²n0 Cñ^apk^av c|qp/
 dcp pgo eum nño o gte^krk^ap ngm nñ⁴cul^apwpm jcpgo h rñi nwn/
 vÄ^av ngm pñk p{Ävcpwn0 Kgx^ai» gn⁴qpf qñ⁴uckv gn⁴twñ^am hñr⁴gi{/
 |²ugl0 äC| Ä cñ^ap^amc^opc^m2^u v⁴tucf cñ⁴o pc^m0 ¶|lc ô ul Äm²ig rñul
 jkcvc⁴qñqntc. qtxquqntc. v^aqntc. o²tp³n⁴ntg vud0 C| Ä n⁴2^r/
 ul^vn⁴ r⁴g^ki c| k^apv c pgo|gv k^apv hñ⁴lc vtgp^kucl^av p²r²pgm tqñp/
 ul^gx²v. cjqn o ci c p⁴xgm⁴gv²u vpwñ0 Oci{ctqtul^ai n⁴2^r/. hñm/
 2^u ul cnknqñ⁴ktc nngp^g vñ^av jql^k c| cñ^ap hÄnev kñ C i³4³4/nng⁴k
 rñ⁴uñ^ai o kpf gp xcn»ul ¶|p⁴u²i gn c ul qo ul²fqu I³4³4 qtul^ai k^ap^a/
 dcp qtlgp^vñ⁴fkn0 Fg rt>d^av rñjgv^g vppk c xci{qpqu o qj co gf^aqñ^a
 ncn cñk Fgdtgep⁴dg ngtÄj v²pgm²u c nevqknwqmmen cñk⁴gv R²eugv
 rñjgv^g gñ⁴gn⁴pl0 C Lwñ^ap/gi{guÄgv n⁴u|gp^am c o wññ⁴tc# C| 3ñ/
 v⁴pf ¶|cuqnev c nñp|wñ⁴wqm²u c rcr⁴i x^anñ⁴cj^vcv^a nñ0 äJc o^at
 n⁴p{vngp^gm xci{wpm ô h|k jql|^a ô n⁴m²i gu pci{jcvc^ok rñkñ⁴v
 euk^apk rñi cñ⁴dd pg rñi{Äp^m c⁴ppcm rcuul ¶|x⁴t²ul gugk c vtj gm gi{ul gt

j qtf q| »k j cpgo ki {gn| | Āpm c| cfqw jgn| | gvd n c ngj gv ū² i j| gn| nřrguv
 jcu| pqv ku j Āpk co k dk qp{qu gn nřu| ū² u. gt hgu| ū² u² u^a rf q| cvqm
 p² m Ān ngj gv vgp0 Wcn ctte ô u g| ku² v ki c| k mřgd nudgti k i qpf qrv
 ô j qi { c ZX0 u^a | cf dcp Unepf gt d² i wqn» i { | gm gk c v³ /⁴ m h³ /⁴ w
 o ci { ct ugi ū² i i gn ctewc u xcn» ū² i i cn c v³ /⁴ v p ggo h³ /⁴ r f² u g r p p g.
 j c c v³ /⁴ m wcrqo c n hgn| c dcf w» Cnd^a p^k p^c m c| gnu m w w^a r ku
 ugi ū² i gv ku O ci { ctqtu^a i p{ Ā v p^a 0

J c x² i ki vgn p Āpm c| qp c j cvcm cu o v p n² p. co gn{ gv Mřgdgk
 dgti c Lw^k p/ gi { gu Āgv u| qn^a r v² dcp n h g l v g w. t^a o w c y c w p m gi {
 xcn» dcp f³ p v h p v q u^a i Ā o q| | c p c t c 0 C Lw^k p/ gi { gu Āgv k^a p{ ū² ū² /
 dcp c nřu ddk m w w Ā r q r k k m u p c m l» h q t o^a p o k p f g p l g m g i | g v u x q p^a u c
 o gi p{ k^a p w 0 C v r g u| g t x g| g w k u n q n² m p g o e u c m v p{ c p c m j c p g o ô
 c nřu dd n k g r l g u g f p g q p c e k q p c r k o w u u l g m g o² d g p ô g n u g i ū² k m c
 u² r g u g d d t² v g i g m i c| f c u² i k t² x² p{ gu Ā ū² v ku0 J^a p{ u| q t h q i l c o c l f
 h g l v i g y p k c| k w u| g t| g w v e r c u| v e r v q m c r r^a p. j q i { c m w w Ā t c j c v c m q o
 ô i c| f c u² i k j c v c m q o k u # U o k o k p f g p n e r e u q n» f k m o² i c p² r k u n q n² m
 j q l < p² r o x g r² u k nř p{ x v² t e m p e r v² t e m k o c nř p{ x g m x g l g v n ř r² u
 c n» d d² u h g u d d h q n q p. k p v g t^a w u q m³ u| v³ p f ĩ c m h³ /⁴ t g h q t o. v e r e /
 r ū² u. u v x² i Ā n o² i g i { g v g o /² u w f q o^a p{ r q r k k m e k u 0 Mřgdg nudgti p² n
 o^a t g m q t k u o k p f g p o k p f g p p g n³ u| g h Ā i u o k p f g p^a o c i { c t Ā i { g v
 u| q n^a r c. c| k u. c o k n q t c d q u| p l c k h g t g p e t g p f l g m w² p r » ū² ū² t » n c n e t
 i q p f q u n q f p k x c i { c o k n q t C n d^a p k Ā² v g m k² i k q u l v² n c p g x g r² ū² p
 v³ /⁴ k c h g l² v 0 f v h i ». o k p f g t g i q p f q n» u| g t x g| o v p n² l^a x c n x c r o k
 q n{ c p v u k n g t Ā v c m q y p k c. c o k c o c i { c t r g f c i » i c k v³ /⁴ g m x² u g m v³ /⁴ v /
 p g v² d g p c| g i { k m r g i t c i { q i » d d r e r. k u n q r e r q r k k e k g t g f o² p{ g k p m v g t² p
 c| g i { k m r g i u l g d d v e r l g u f i o² p{ o c t c f 0 K c|. j q i { o g i n g m g w² t p l g
 c x k i i j^a d q t Ā w² p c| c p p{ k i q p f f c n c m q y q w k u n q n² m v² p n t g v² v g r² v.
 c| q n² u q m g n t g n² v u e n n k x^a n q i c v q w v c p g t m u² v u l » t^a ū² v 0 C Lw^k p /
 k u n q n² m t c k u r g u Ā v q w c| ě k w l² i x g t² ū. c o g n{ c o c i { c t ū^a i g i² u l v g t /
 o² ū² v v² p n t g v g w 0 C| g u u q t d c p Mřgdg nudgti v n n k r c n ĩ q w u| g t x g| g v.
 c| q p d c p x^a n q l q w h q t o^a d c p v x^a d d² n u c| c o c i c u d c v³ /⁴ u l g m g o
 k u. c o g n{ c p p c m k f g l² p r ĩ v g j q l v e. x^a n q l c v e p g p g t i k² x c n c| c n e k »
 r g d q p{ q r f² u c u q t^a p u l g t| g w d ū² i g u v e r c u| v e r v q m e n h q i q w c|³ u l g /
 q o r f u w^a p j q l^a. j q i { ô o q u v o^a t c e u q p n e q t u^a i d c p ô l » x c n
 p e i { q d d c t^a p{ q n d c p c o v p n² v u l ū² » u r g m g u g f² u e n h q n{ v e u c 0

C n t o g p p { k t g k i { g n g | g w k u Mřgdg nudgti c Lw^k p/ gi { gu Āgv k v g x² /
 n g p{ ū² i² x g n c j^a w² t d g p o c t c f p k c| q t u^a i n ĩ³ x² r g o² p{ g o² i k u n g l /
 f g w h g n k i { g r p k c| ě k f g i g p p g x i t » h c i 0 C p{ k^a p q u ū^a i g n w x c n »
 u l g t g r ĩ ū v n u g o j Ā » f j c v q w v e r l g u g p x k u u c 0 G i { k m v k u l v g x q i v r r 0
 j q i { c| g i { gu Āgv² x k n ĩ³ i { r ĩ u g l p d g u l^a o q n » n e v c f l q p 0 G l g m c d g u l² /

f gm c| gnu m co gn gm v rg c p{kr^a pqu^ai gn w gnj cpi| qwcm o²n»
 hgnv p²uv ngnngwgm vctcm wmen²u hqto^a lwmnen gi {ct^ap⁰ C nqtu| cm
 ëf wì o ci {ctlck n³4 Æn c| gi {km rgi lqdd. c xcvgnrgm Xcti j c I {wrc.
 c o ci {ctu^a i l³¾ uqtu^av kngv dqtAu uglvgn gk gmp²tg g dgu^a o qn^anev
 tgp f gup hgnukmp» tgo²p{ngf² ugnj cmi cwc.

C Lwl^a p/gi {gu^argv gl xcn» tci cu| nqf^a u^av o wvdc c| c n³4 Æ/ o²F { . j qi { qwepk vku^a v² c o loku^a vgtgp³4m²it n xcn» v^axq|^auc w^ap ku o gi vctvqc. 3; 32 gngl²p vi {cpku Mrgdgnudgti x^atcvcpwn o^au o wpcn/ n³4dg. c n³4 ki c| icv^auk d[¶]»u^ai j q| o gpv^a v⁰ | rgtcl| k cf cvck ¾4u/ g/ hji rñ» p{krvnu| cv^adcp g o q| cpcv»n c n³4gngv| ngv o qpf l c < ëC J²f gtx^at{/nëd lpgv kf l²p c| v cl^a pñwc Vku| c. j ci {lco qw c o loku| / v^atkwo qv hji rñm| | co o^aukt^ap{A rtqd^ao^amen ku⁰ Gn gpvgo d[¶]»/ pcm c n³4 ki c| icv^auk d[¶]»u^ai j q| u qw xqnc o. co ¶ Vku| c o^auqf u| qt ku nëd lpgvgv cñn[¶]q w⁰ Gi {km t²ik det^alc u| gtpv Mrgdgnudgti c|²tv ku u| ¶xgugp x^amcm| qw c| Æ o wpcn³4tg. o gtv rqpvcddcp o gi cñctv kuo gtpk x^atj cv» hgrcf cvk t²x²p v²vrgu v³4x²p{gkngv² u n³4 ki c| icv^a/ uwpcm rgi crt»dd t²u| rvgk ku⁰ Gn n hji xc lgi {gvgkpgm pci {qdd t²u| g d[¶]»k vku^a v²pgm i {cñqt^au^a xcn h^ai ¾4u| g⁰ Vcpw^auk o »f u| gt²pgm o gi hgn gn gp c i {cñqt^av^adcp hqpvucmpcm ¶²tngl v³4x²p{gngv gzeit/ r^anc. xci { t²u| gkndgp gugvgi ngo^auqnc⁰ Cr t»r^anqu ¾4u| g^an[¶]uv qukp^an o ci^a pcm rñ⁰ c x^ao Æ {gnt r⁰ Gi { o^aukm lgi {g v³4o gi g cln³4` u^aik r »cf»ntc. kng^vngntg. j gn{r²p| gntg. c| ^anc o w n ki²p{dg pgo xgw Æ cf»ntc. c n³4²tf gm kp²/ o²p{gm r²vg[¶]u^atg² u hgpvct^au^atc. h^agvgpf l^atw^anqntc²u f[¶]lcntc xqpcvnu| ku⁰ Pci { u| qti cñqo o cñ n^axqpcvnc c| 3; ; 8 < ZZ X⁰ v⁰ h rgi gppgm 520 u| cñu^av c n³4/ ki c| icv^auk d[¶]»u^ai kng^vngnu²i²t r⁰ f ncpf »dd hgrcf cvc c n³4 qm^av^a/ Æ {k² u u| qek^a rku n³4 ki c| icv^au n³4²dg x^ai» Æ {fctcdqm tgh^ar^auc xqn⁰ Uqnev hji rñm| qw o²i i ctepek^a rku²u c hko gk xqpcvnu|^au Æ {gm ngn ku⁰ J co ctqucp dgx^aru| vq^am c j cv^aun³4k d[¶]»u^ai dc. co kv nk v p/ vgv d[¶] cñqo lgr^apgm vctvq u n²u dd ku u| ¶xgugp go rgi gvgw⁰ Wì {cp/ gmq²tv g c| c nk^apv²u. j qi { c n^an[¶]. xcn»u| ¶ rgi Vku| c K^aw^ap cl^ap^ar^au^atc. o gi d[¶]»c c| wcmq[¶]»j^a| p²j^ap{ hcvrëdd h j gtegi g u^a/ o^atc vctepf » n³4 lqi kgn cf^auqmcr⁰

T^a pno ctfv lgi {gvgk n³4 ¾4v qnkuj cvwm d[¶]»k dgn³4 ¾4p l²/ pgm u c| gum^av^amq² o qpf qw dgu²f²pgm hji cm c| x^ap^av⁰ C| w»ddk/ j q| n²u dd j q| |^algi {g| vg < ëMD0 56²xgu xqnc o. c u| gt²p{u^ai xqn c fgo kpcpv^a= ci i cv^apqm n³4² lwwco⁰ C o loku^a vgtgp³4m²it g cmmqt ugo xqn j clrepf » xku| co gppk co knqt c rqrknek cv qu l²tc o gi x^anq| qw⁰ Gi {km 3; 340 qm»dgt 70²p ngnv d[¶] cñ cu r^axng n³4g/ |²utg lwwc. o gpp{kg xku| qn{qi cv»n j qi { c pcr kr qrkñ^aj q| xcn^a

o kxgn ku nř4 gngdd ngtĀnř3p0 WpfqtĀm^a c rctıro gpk jgeegm ěc lřthk/ o²n»u^ai pcm c| c hqn{vppqu o gi cıř^auc. c| c řıto c²u jcpf c/dcpf cı. co gn{t n c| gmgp|²m pgo wf ngo qpfcpk0 C o wprer^atvq v ku u| ki qĀp ntkk^ařic. fg o²i ku nřp{vgnp vřđdtg vctvcpk c nıqřfıle»p^anĀ ěUqm c r²p|w»x^at. jcu| qprgu go dgt c r^aıtdcp0 Fg vgnkpwg. jqi { c| gmgp|²m co knqt nřto^ap{qp xqıw c pgo |gv nřo qn{ xg|gv²ıřtg vřngıgıp nřr vgnp/ pgm dķ qp{wıw vgnkpwg. jqi { gi {o^au nř4³/4v ku euĀhıucp³/4u| gıguı vgm u gi {o^auv vĀř³m nk c jcvıřo d»n c| v nřm o qpfcpk jqi { gi { nřo qn{ jcvıcpjgvı rıřkknřv xcm». eum nıeukv jki cıfv r^aıtv o²i ku eum vřđdgv²t0 Co knqt c o lřku| vtgıřp³/m²i gp dĀeuĀ qw. dķ vıuıřıvıw jkcvıř vřtuckv jqi { o^au o wprer^ař4²dgp ugo hngıřk gn nřv0 G| c rıxgıg. o cıř/ pgo j^atqo²x o Ākx. vřp{rıgi c| v dķ qp{řılc. jqi { pgo hngıř nřı| gw o gi c| qwcpk fıřı qnt»ı0 Eum c dķ cm cu u| lřvıř²i gmıpnı| gn lıgıv^af u| cıxıcpınc ěMĀnř3pdgp nko qpfjcvıřpıw dıřı qı xci {qm ô hqn{/ vılc. ô jqi { c o lřku| vtgıřp³/m²i d n cıdd»n c euĀh lřı| gıd n nıknřĀnř vgo0 Kv c dřı»u^ai p^an o²i ku eum mĀř3pd go dıtgı xıppı gı {ĀwĀ o lřf gp gıvıg lıgıo gıgdıgı vku vıř²i gıgdıgı0 Rıvı cıqı| vım p^aıo. jqi { dķ qp{qu hgn²vıgı o gıgıw pgo rıppı/g nřf xgo xkuı| co gıpk c o lřku| vtgıřp³/m²i tıg0P go lı gp tıci^anco c dķ vıřı tıc0

C nř4gıvı| go gıgıř²u. c mıwıu| o lřku| vřtkwo k^aııo vknřı tıřı. Mıgdıgıdıgı o nř4²ıř v o^at c pıci { p{kk^apıuıřı gıgp t|²ug cıř^anřı|c0 Gfřkı x^a| qıv r^an{chw^aıř dıcp xci { vřıgıgıp c j^awıtdıg o cıřıv. xci { ô h nıgi c lıw^ap/gı {guĀřk Āı {xg|gv /kı cı| cıwıřı t²x²p ô eum lřřı řıřıgw c p{kk^apıuıřı gıř0 Cnım c| qıdıcp nř4 gıgdıd n ku o gıřı m cıřı hgnĀn n o lřv Vku| c Kıx^ap. cıřı cıwıřı»n o lřv rı0 mĀnř3p³ıgı c o lřku| vt/ gıřp³/m²i jg| vıvı| » Uıvı vıřk Jkcvı nıv p u| cıgo dıtgk cıknıgı n u| qıqu dıř^avı mıřıeıvıdıcp fıřı qı qıw. c nıgi pıci {qđdıv x^atıř v nıř0 Kv go nřı| gıĀm o gi. jqi { Mıgdıgıdıgı o lřf x²i kı. fg mĀnř3p³ıgı r^an{c/ hıw^aıř pıcm gđdıp c| gıu u| cııeı^adıcp. c nıgi pıci {qđdı vı| vı nılg D gı {/ dıgı jcu| qıř²nıgı| lg xqıv c uıvı vıřı pıcn0 Ctı cıqıvıvıı»ııı ku xqıcm³/ıgıvı jqi {cp nıgıgı c jkcvıv o gi tıgıto^apı0 lıgıo | o»f qp o^at cıwıřı mĀř3p wf qo^ap{qu qı vıřı hıřı nřıřı vıřı uĀıı gıv. co gı lı n h nıgi c|³ıu| gı cıqıřıřı» uıvı vıřı v o xıgı xıqırc< c o cıı {ct cıvıqı o gıřı j^awıřıřı vı qı c cıııvı nřıřıvı c mĀnř3f k cıvıvıvı0 G vgnkpıv/ dıgı gı {gıřı vıgı nıv p uıvı vıřı dıř^avı cıncĀ Xıııı c I {wıřı cı n Dıřı c{ N^aı| nıxı n²u Mıx^aı Cıřııııı0 O kı p c o lřku| vtgıřp³/m²i t n vıřı| qıw. gı| gı c dıř^avı kı ku o lřf gp lıv nřıřı pıcm pınk fg o²n lř lıřııo / o cı nıřı m cıřı kı Āı {nř4²pıgı gıřı xıwıřı v0 Xıııı c I {wıřı u| qo qıřıřı / i cı nı xıgı vıřı|^auc jřı²v cııı»n c jıgn{t n cıqı nı cıp o gi dıgeuĀıı gıvıgı o wıřı uıřı vı hıřı vı nı pgo | gıřı pı m²tı gıřı dıgı u cıqı nı uıı c uıgı nı pgo

hqi lc jgn^{2v} r»vqpk0 ëMÄi²pdgp ku ô ¶lc ngxgn²dgp ô tgo²p{vgrgpÄn
p²|go c l^{3/4} x0 Pgo d¶qo c pgo|gv l»|cpu^ai^adcp. o ci wpm j¶xlwm
nk c x²i|gvgv u xcnup tqjcpwpm c xgu²n(dg. gmgu²i gkpm pci { t^{3/4}
o²tg0 Dwfc{ N^au|n» ku uclp^am|kn jqi { c| Äi {n^{3/4}v. co gn(dgp cpp{k
u²rgv²u pci {qv cmuqv. Mrgdgnudgti gnjci {vc0 è: p c|qpdcp ô hqn/
vcvc ô d¶xc/d¶qo. jqi { c| Äi {n^{3/4} xku|cu¶ o clf V²i gf. o gi eddcp
ku jqi { c vg vgx²ngp{ u|gmgo gf o kpf gpÄw²u o kpf gp^am^audcp qfc wf
l²tm|pk t²i k u|gtgm gu²jgl. c o ci {ct hcl lcx^av o wpm^an» kf g^arlck/
jq|0 Mqx^aw Crlqu ku itcw^an fg gi {Äwcn cw»n l²n jqi { c| Äi Äi {/
n^{3/4}dgp Mrgdgnudgti c pgo|gvk Äi {gv pgo u|qni^aijvcvc qn(cp n^{3/4}xgv
rgpÄn o kv c|gn w0 G|gnp²n u|gdd ëo n^{3/4}uk dk qp{¶x^ap{qne²
Mrgdgnudgti cn²to kn(gp pci { Äw»n xci { wcm»n cki nerjcvqw
xqpc#

KO

C Lwix^ap/gi {gu[~]Argv d[~]Aeu[~]Alc0 ô Rqriknek vcrⁱri cv[~]uqm c|^a mco vknⁱtk n[~]pgxg|²u qmekv kngv ngi0 ô Vku|c Kwx^ap d[~]k[~]cm c0 ô Mrgdngdgti vx^addk go gmgf²ug< o kplu| vgtgp³4m²i k^a mco vknⁱt ngul0 ô Vku|c Kwx^ap lgn^o|²ug Mrgdngdgti t r0 ô Mqnr|ux^atk n[~]r[~]xkugn u²i=c| gnu r[~]tqi tco o dgu|²f0 ô C| gnu r[~]qriknek v[~]o cf^auqm Mrgdngdgti gmgp0 ô C u|²ngn{u²i m[~]mw[~]t^anku²u i c| fcu[~]ik hng^o gr[~]u²tg xqpcv/ nq|» vgtxgn0 ô C| Qtu|^ai qu J cf ki qpf q|» J kxcvn o gi u| gtxg|²ug0 ô J cf k/ i qpf q|» k vgtxgm²u o gi xcn[~]uw[~]uqn0 ô C n[~]ppucp[~]vp^ar qn{k wf qo^ap{qu k[~]p[~]v| gv o gi u| gtxg|²ug0 ô V³4[~]v[~]pgm k v[~]tuw[~]vk gr[~]3[~]4m²i< dgn[~]4u|³pv dgu|²f0 ô C dgu|²f qtu|^ai qu xku| j cpi lc0 ô Vwf qo^ap{r[~]qriknek o ci cu kun[~]uc< Mrgdngdgti vcr[~]tc^an[~]f[~]lc c v[~]tuw[~]qv u r[~]ngmv³pv c pgj²| jgn{| gvdgp r[~]x o ci {ct wf q/ o^ap{qu² r[~]ngd[~]g0 ô V³4[~]v[~]pgm k v[~]tuw[~]vk o w[~]nc[~]r[~]tqi tco k[~]p0 ô C D²euk Oci {ct/ V³4[~]v[~]pgk k[~]p[~]v| gv gr[~]pf wf uc0 ô Rqriknek i qpf qrcvqm c tqo^ap²u f²nu| r[~]x r[~]tdi[~]fo^at[~]n c dwnctguk d²ngn[~]4²u w[~]p0 ô Mrgdngdgti²ngv c h[~]ttcf[~]cm cm crx0 ô Gnu r[~]qriknek r[~]r²ugm c n[~]o o w[~]pk o wu dwn[~]uc w[~]p< c è[~]n[~]4[~]l[~]r wcu[~] r[~]qriknu pgj²| jgn{| gv⁰ ô Mrgdngdgti²u c r[~]gi kko k[~]o wu0 ô Dgn[~]4i {o kplu| vgt/ u²i g< pgj²| u²i gm²u i qpf qm[~] ngf xgv[~]pu²i0 ô f vxguk c xcn[~]u/ ²u n[~]4[~]qmc[~]v/ [~]4i {k o kplu| v[~]tkwo xg| gv[~]u²v< gr[~]lw c jgn{| tg. cj qn m[~]Ar[~]gv[~]u²v dg[~]4[~]nj gv[~]0 ô Dgn[~]4u|³pv lg u gppgm[~]xku| j cpi lc0

Mrgdngdgti 3; 36= lcpw[~]t[~]l^adcp gnu uqtdcp Vku|c Kwx^ap d[~]k[~]cm^a/ d>n n[~]4[~]qmc[~]v u[~]4i {k cf o kplu| v[~]tk[~] mco vknⁱtt^a p[~]gxg| v[~]gvw n[~]0 Gi {km ucvku| v[~]km[~]u det^avc. Dw[~]c{ N[~]u|n». o^at c j[~]f[~] gnu h[~]ndwmc/ p^aucnqt v[~]ncv tci cf u c dg[~]v[~]ng[~]u[~]Ar[~] tgo²p{u²i³4³o²xgn n[~]4u|³pv k è[~]pgj²| À^am[~]u[~]peni gr[~]tqi n[~]r[~]uc cmem^axcr0 è[~]V^axq[~]t>n ugo c²tv v[~]tvqo pgj²| pgm ô [~]4lc ô o k[~]v[~]j c c Vg pci {qddtc j kxcqv n[~]r[~]gu/ u²i gk[~] o gi pg d[~]f[~]p^am jcpgo c²tv o gtv gu| o²k[~]gv gi { o gi pgo²tv. kf gi gp xk[~]i dc xku| gf dg. j qn ki gp t²i k jci {qo^ap{qnm[~]n²u gt u gngp^atc^orcvqnm[~]n ngm o gi n[~]4[~]f gpgf0 Fg cpp^an lqdd. jqi { gl c m[~]4/ f ggo x²itg o gi ng| f fkm o²i r[~]gf ki [~]4i { jqi { Vg k[~]pf[~]qf o gi0 Pgo| gv k n[~]4[~]t²ugnd[~]gp c| w[~]ddk kf dgp [~]4i {ku cpp{k qmwpm xqv gi {tg u[~]4[~]v[~]gd[~]dp r[~]vp[~] o quv li c|^ap gi²u| gp h[~]g[~]rk[~]cp{q|. jqi { c r[~]gi h[~]qpv/ u[~]cd r[~]qu| vqm gi {kn[~]ip V²i gf r[~]ij[~]cw[~]pm[~]# | rrg gi { Dw[~]c{ N[~]u|n>n gl gm pgo [~]4gu u| xcn[~]# n[~]4[~]xgv[~]gp n[~]4[~]gr[~]d n h[~]ki {g[~]nj gw[~] c Lwix^ap/ kun[~]uf k vx²ngp{u²i gv²u c p{gr[~]xj cv[~]tk cn[~]ek» r[~]tqi tco o l[~]pcm n[~]kdq/

vcnq|^a u^a x0 Vwfvc. jqi { c| Āl^a mco vknft. jc c n³⁴ Āro² p{gm fqi q| pk
gpi gf km o kg ngu n³ r gu#

Gi {kf gl rgi ngo qpfqw c Lwrk^a p/gi {guĀngvdgp xkugiv vku w² i² t n0
O gi jcv» c| c j^a m² u| u| gtgvv. co gm{gn c| gi {guĀngv/p{Ālxvc^a r^a /
uqndcp t² u| gu o ci {ctqm c v^a xq| »v n³⁴ Ārk^a gw² n0 C| Gu² ngp o gi /
lgrpp U rex»pkck O ci {ct —t^a i 3; 360 lcp0 330k u^a o c dĀeuĀ vlc
pci {qp hki {ngro tgo² n» ekmgm co kd n c| ku nkft Ān jqi { Mrgdgnudgti
cffi o gpp{ktg c j^a w² tdgp wfwqw o ctfpk^a ěG| c p² x eum o quv
ngtĀw c p{kx^a pqu^a i gr. cdd»n c| cm^a i qo d»n jqi { c nk^a n³⁴ /
qmcv^a uĀi {k^a mco vknft^a p^a gxgl v^a nk0 C u| rex»pkck o ci {ctu^a i ku v^a i p
o quv jcnlc gn u³⁴ g uqtqm Āl^a p gl v c p^a gxv r^a g^a k^a i g p² x xlugl g
xqiv c Lwrk^a p/gi {guĀngvpm gi {km o gi v^a tgo vlg² u c p^a p^a cm v^a | gu| v^a p/
f p ngtgu vĀn Āi {xgl gv ki c| i c wlc0 0 Gddgp c v^a r^a ngf xk^a i dcp.
x^a u^a tk | cl dcp xc» dcp pgo wflwm o kv euq^a r^a lwpm dgppg lqddcp<
x² i v^a r^a gp u| gt² p{u² i² v xci { euq^a u o w^a n^a d^a u^a v hcpvknw r^a mgug/
f² u² v xci { u| gtgv² v c| gr^a gu| gpf o ci {ctu^a i k^a p vĀi M^a go grk c
ekm v³⁴ jgv^a gp jk² v c o ci {ctu^a i l³ k l² dgp0 O k^a pf gp i q^a pf q^a rvc.
o k^a pf gp² t² u^a g c pci { e² r^a u| q^a i^a n^a c< k^a n^a q^a k t² x² p h^a rgo grk c u² v
u| »tv. c| k^a gi gp v^a pi gt dgp o^a t/ o^a t gm gt Ān o ci {ctu^a i q0 ěEu^a nku
k^a gp hcl u| gtgv^a w. k^a gp u| gt xgl gt xgn c fkr^a qo^a ekck w^a fo^a p{
o k^a pf gp gu^a n³⁴ xgn nk^a n» v^a j gv² i i gr00 r^a j gv^a w n^a q^a r^a q^a r^a gu^a n³⁴ /
|³ m^a gn c o ck gtgf o² p{v gr² t^a k0 Go r^a i gv^a r² r^a v^a c^a p u| w^a i gu^a v^a k^a gt² v
ku. co gn{pgm pgo r^a j gv^a w gn^a p^a k0 H^a r^a gv f³⁴ v c i q^a pf q^a rvc. jqi {
Mrgdgnudgti p^a g² t^a g c^a r^a v^a p{v i { l^a v^a p^a gm co gn{pgm n^a o c^a k^a d»n
o k^a pf gp² x dgp gi {/ gi { d^a v^a i Lwrk^a p/v^a p^a v r^a j gv u^a i² n^a g^a l^a k0 C i { l/
v² u jcv^a cu gt xgn h^a n{v= r^a n0 c o c^a tqn^a {k u| gi² p{u^a t u^a u| ctclgx>k
o ci {ctqm p² j^a p{ p^a c^a w v³⁴ dd u^a | n^a q^a t^a v j q| v^a m³⁴ u| g0 U³⁴ v³⁴ p/
n³⁴ v^a gm c r^a x^a r^a gm c u| rex»pkck o ci {ctqm r^a r^a l^a p^a cm u| gt^a nu^a v u² i² dg.
co gn{gm Mrgdgnudgti gi gv qutqo n» jk² v. o k^a pf gp^a kv c u^a l^a v r² r^a /
l^a xcn o w^a n^a i^a tc ugt^a p^a v Āi {dw^a i cm^a v c| Āi {gm e² n^a w^a cv^a qu. d^a k^a v^a u/
ngl xgl g² u² v go r^a i gv^a n0 W^a c^a n^a w^a p^a m o^a t^a. jqi { Lwrk^a p/gi {guĀngv
u| g^a r^a r^a ug gn t^a x^a g^a v^a w^a t^a p² n^a n³ u d^a k m^a w^a t^a co gpv o w^a n^a l^a p^a c^a n0
C dĀeuĀ » Āi {xgl gv ki c| i c w^a v o² n^a c» u| c^a cm uq^a m| qt go r^a ng| v^a v
p^a gm c x² i r^a i gn^a xq| qw Mrgdgnudgti² t^a f go glv³⁴ u| gh^a i r^a n» o gi^a n^a r^a v^a /
v² uq^a n^a c0 Mrgdgnudgti o^a t^a cm^a q^a t w^a {c^a p^a | xq^a r^a. c^a n^a k² n³ u dd r^a w^a #
Eu^a mc o w^a n^a i^a t^a u c h^a r^a f^a cv^a t^a p{ckx^a n^a q| v^a n0

Gr³⁴ v^a gm v r^a dĀeuĀ pk c o ci {ct jcl>uqm ku0 m xq^a n^a cm c|^a t^a x^a c
o ci {ctqm n³⁴ v^a w ku c r^a i^a t^a x^a d^a d^a cm co v^a | Mrgdgnudgti hki {gm g t^a l^a w^a
pgo k^a p{w^a n0 U² u| »t> f^a q^a w^a i w^a n^a dcp. u| k^a p^a v^a p^a qo^a f² r^a v^a Āndgp r^a i /
k^a n^a i dd nk xq^a n^a cm v² xg c o ci {cti { r³⁴ n^a gt m p{qo^a u^a p^a cm² u eu^a d^a v^a /

v³ uclpcn0 Mrgdgnudgti o ci {ctu^a i o gpv o xg c| qpdep o²i x^a pfqt/
 Ælwnq³ ku gr²tv³ ngv0 O quv gl c fgi grj ci {qwcdd t²vgi³ gr³av j^a r³v
 o qpfcpk c v²rk kunqr³ n³tv. c pcr³ tcn³ tv. c| ³avgv³ x^a pfqt n³ p{x/
 n³ f^a n³ tv(00)

C nlp³gxgl² uugn o gi kpf wncm c vcr³ ni cv³ uqm ku< o kn{gp gt m go gr/
 v² m Mrgdgnudgti gv o²i pgi {xgp ²xgu nqt c gn w o ci cu vku³ v² dgA
 C| gi {km rgi gngt lgf v²dd jgvkr³ wi {cp o^a t cmqt o gi t³vc t>rc. jqi {
 hpcvknwuc c n³4 qmc³ v u pci { jkcv³ u³ pcni u c| v ku gm qpfvc. ô
 cok o ci {ct^a | cypcm vcr³ p gr³i rj³ gvgw xqpc ô jqi { c n³4 qmc³ v/
 u| gtxgl o vnr³ v o^a t c o³ Andcp ku ²rr cpp{k u| gtgvgwn o kpv jql³ |^a/
 ²tv² uugn ²u gtgfgv² i i gn x² i gl v³. o kpf gl c| qpdep rqrkknckci o²i ugo
 xqr³ ngr³ i t³ v o ci {ct^a | cv0 C nlp³gxgl² u wi {cpku dk qp{qu o vnr^a t³vk
 n³4³ ndgp pci { f w| qi^a uv x^a nq³ w nk< pgo u| t³kgupp n³ v³ m êkf gi gppgm³
 *c| c| pgo rqrkknwupcm c n³4^a pcvqpc³ m vgw³ ^a m³ udc xcm³ jgn{gl²/
 u² v0 lqddcp u| gtgvgm xqpc ên³4³ AnAm xcm³ v0 Vcr³ ni cv³ m o k rj³ gvgw
 c| êki c| ki qn0 J cter>uccd rldgt^a rku n³4³ ndgp ctt>n x² ngm wf pk jqi {
 Mrgdgnudgti gv. c h r cr qm n³4² dgp ku ngr xgrv ên³4³ pti tgi cplu³ v³ ngrtk/
 n³ rku ^a tco r³ vqm xgvg² m rct³ c m³ w w u| o kplu³ v³ tkwo dcp0 Mrgdgn/
 dgti o quv gn u³ 3/4. fg pgo wqr^a t c n³ p{vgrp xqr³ e^a hqpk c n³4³ pti t/
 i cpluc xqr³ t c e² nq| ic> i {cp³ v³ v u0 Cmqt wi {cpku. c dqr³ qi
 d² ng xk³ i dcp. c| kn{gul³ rgi i {cp³ v³ u pgo ku xqr³ xc³ o k pci {qp
 ^a tcm c vcr³ p#

O^a u o ci {ct^a | cvq v nngw ngtgupk u c| gi {km u| gp|^a ek>j clj^a u| >
 perkr hgn ku v³ rnc c êj kgrui kphqto^a ek>v0 Gu| gtpv Mrgdgnudgti gv
 c² tv go gn² m nk jgn² t n jqi { rgo qpf cu^a m Lyr^a p/gi {gu³ v³ vku³ v²/
 t n co gn{gv v³ An³ i qucp l>n n³ vq w gr0 C| gi {gu³ v³ pgm pgo eucm Ai {/
 xgl gv ki c| ic>lc xqr³ jcpgo c o kpf gpguc ô c rnm³0 C jgtqknw
 n³4³ grui³ i vgrgu³ v² u o ci {ct u| go r qvd>n uqj c pgo uglv³ w gtgf o²/
 p{ngv jql qw0 êC nup³ e r e k Mrgdgnudgti it>h³ xqr< hpcvknw jct/
 equc xqr³ c it>h cpcm c| gul o² pgm jqi { c j qtx^a vtu^a i k o ci {ctu^a i
 ²xt n² xtg v³ 3/4 gdd ²u gi {tg gngp³ m>dd hcrpz rgi {gp c j qtx^a v
 i { n³4³ u h³4 f l² pì0 G| gm w³ p pcr³ p^a n xk³ i qucdd. cok v³4 v³ p<
 Vku³ c rcmwo qv cnetv n³4³ p k c j qtx^a v mnen u c rcmwo ^a t c| xqr³
 jqi { c o ci {ct nqto^a p{ u| Apvug dg c Mrgdgnudgti vgwgt² j| gl
 h| f gt vrgugdd m³ w w^a rku c n e k>v0 Vku³ c n³ go gng c| gi {gu³ v³
 rnm³ v0 G| gm w³ p c| gff ki k o vnc o clf u² r gp gn| AnAn o gt v
 Mrgdgnudgti êo quvo^a t pgo rgu| r>| p^a l c c o ci {ct v³4 gmx² ugnpgm³ 0

Cn³ to kn{gp r gpgv^a pu krcv^a o²i o quv ku. ² xw³ gf gm w³ p. c|
 ghclv r rgv{nc/r vdr³ klu vnc. cn³ to gpp{ktg ukr³ p{ jcteo qfqt ku c|.
 co gn{ Vku^a v jqn k nku rcmwo² tv jclcrpf> t³ k k³ v³ xrcv^a pcr k rqrk

vknwupcm gr^ai cm c|pk o²i ku kf²|vgo. o gtv o wvclc Mrgdgnudgti
 go gm²f²u²v c n³4 x²ngo²p{ u|go²dgp0 C| dk|qp{qu. ô gttg o^at gn/
 | rgi o wcvnq|cm lgrgm ô jqi{ c jqt^xa²qm u|²kgugp rcm²ncm
 xqpc c Lw²p/gi {gu²ngv d t²tg0 Fg ugo o k ugo ki c|qrlc c hgpv x^afc0
 O gi o ctefj cwpm c| gi {gv²ep xcⁿu|²p o ci {ct^a|cv^anc Mrgdgn/
 dgti gv cffki k o wpi²lc gtg²o²p{gkpgm cr^rl^ap v²p{r²i Vku c K^xa²p
 nk²Ap²gv dk cm c go gm² Al^a n^au^adc0 Gtt n c hgn²v²gp dk cm o t>n
 o²i ngu cm²o wpm²du²l²pk0

J u²Am grlwq²w ctte c jgn{tg. cjqn n²u dd o clf m²rf gv²u²v
 dvg²ngu²kl0 Gi {gn tg c|qpdcp o²i pgo²tn²glgw gn c| kf glg0 J co ctq/
 ucp ô nkpgxg²ug w²p l²n²xtg ô nk²4v c xk²i j^adqt^au u²{ pgo ku
 r²g²gv² cm²o c pci {qdd ct^ap{A² r²v o wpi²tc0 k²pn²dd eum c l³4
 gn n²u²{²u²p fqi q|kn0 ²{ r²o^at gddgp c| kf dgp nk²qri q|c
 o w²pn²v² tuckcn ô n³4 v²Am gi { uc²ku² v²nu²cn ô c|v c pci { kun²qrc/
²r²v r²tqi tco o qv co gn{pgm c euq²pn² qtu^ai tc gu t²u²v o clf
 n²u dd x^anq|qw n³4 Am²p{gm n³4³4v o gi xcⁿu|²lc0 U o gi ng|fk
 o wpi²l^av c| gi {gvgo u|gtxg|²u vgt²p. co gpp{kdgp c fgd²gegpk² u c
 r q|uq²p{k Al gi {gvgo gm i qpf²l^av c o k²ku² v²tkwo dep l>t²u²v x^anc²nc0
 Cm²o c p{²v ctte ku. jqi{ c| gm m²rf k o ci {ct wf²qo^ap{qu k²v²/
 |gv²v c n²upuc²v²r qn²kv. o gi u|gtxg|g0 O k²pf g|gn² n n²u dd o²i
 u> rgu0 Gp²ti k²l^av c|qpdcp h rgi c tqm²epv²i { n³4³4v rg< o clf
 r²vpk h²i lwm o k²uq²fc jvc²o cu o wpi²v x²i|gw glgp c u^ao^atc ku 1
 o gt dgp Al²clvc o n³4²ukvgt²ngv²gp0

i rrgp c tqm²epv²i {dg hgm²gvw l²tfcl^auc xqiv gnu uqtdcp c|
 qnc c²ppcm jqi{ m²ku jk²cvk r^an{chw²u^adcp ct^ap{r²i jco ct
 ku²v x^anq|^au^amv dg0 3;39/dgp Vku c K^xa²p o ci c o gn² xgu²k c
 o k²ku² vgt²gp³4m²i tg^a m²o vkn²tpcn0 O gi k²v gr²pf w²cm c v²ri²nc²v²/
 uqnc o k xqiv c| qnA C| gi {kn nqo dlp^aek² u|gtk²v Mrgdgnudgti w²cl²qp/
 n²r rrgp h²h²gr² d²nuq²w< o k²v uko c. h²ti g. vj gv²i gu u co gm²w ed²cn²i j/
 lgp ki u|qti cm A go dgt r²cu²cpn²k²v o gn²no k²ku² vgt rgw. u v o^at j^av
 v²tdg u|qt²q²vc Lep²qx²lej D²r²v. vj^av cl^apr²cvqu²dd xqiv gn²xq²l²cluk
 xc²o k gn p{³4gddp²gm r²v u> jgn{tg0 Mrgdgnudgti nk²tv c jcte gn n
 edcp c dk²qu wf²cdcp. jqi{ c| ³4³4m²i Ai {ku c| ³4² rgu0 Gi {²d/
 n²rv Mrgdgnudgti en²ce²tn²pf li u|qn²w c| gu²v²kn²xcn c wf²qo^a/
 p{qm²en² o^at co gpp{ktg c| go dgt ³4gi. r²p|gu w²pv²l^axcn u|qn²w.
 cnk ²{ku. Ai {ku t^aji c|lc o k²pf gp²v²0 Gi { o^aukm ek²m ku o gi go r²ng|km
 c x^anq|^au j^avgt²t n< gu|gtk²v Mrgdgnudgti n³4 ng²xgn²i g rppg c|
 qn0 J k²dc# vj gv²i gu go dgt. l> u> p²qm j²dg²gp^am² rrgp c²p{ktc
 tqn²pu²gp²xg|km c n²upi tgi^aek²m²en o k²v c rkd²g^aru gu²o²mgn c|
 wf²xctk n³4³4dgp ku ng²xgn. fg dct^avk xku|qp{v vctv hpp c fgo q/

ni^aek^axen ku0 Gi { u|w|tc 2rrgp grⁱi ängfxgu²i i0 Xqiv qn{cp ncr ku. co gn{kn gncif^anc c| ki c|k qnuv< Vku|c Kix^ap Mrgdgndgti gv cnk lcx^adcp u|gtxgl v^g c tqmepv²u jcfk^atxc/Ä {gnv. u|qtucp o ci c o gmgw enctvc vctvpl0 U c| c vx^addk o gi qnuif^au ku ki c|. jqi { Vku|c dpppg c l3x go dgt²vif^awc0

Cddep c u|gtgpeu²u jgn|gvdgp xci {wpm jqi { gl emenjo o cn c nqtqpcv^aÄ Vku|c Kix^ap ku o gi u|»ren u o gi gt uf^akk c rgi w«dd kuo gtv^gvw vci^ari cv^au0 Vku|c 3;390 o^ate0 340²p p²o gvp{grx r^gxgrv ¶iv c nkt^an^apcm co gn{dgp c| Ä { r^gdqp{qtif^av^a pcm o gi i {qtuf^av^auc²tf gn^adgp gn|gvu gpi gf²n^av n^at. jqi { Mrgdgndgti gv Lgu|gpul m^a U^apfqt o gi ÄÄv^a mco vkn^atk jgn²tg gn vgtlgul vj guug0 | tf gngu o q|cpcv. jqi { Lgu|gpul m^a cf o lplu|vcv^a mco vkn^at xqn< Mrgdgn/dgti gv c|qpdep Vku|c c^arrl^adcp x²xg rqrk^anek^a mco vkn^at^apcm u^apvc0 Vku|c h rgi c jcfki qpfq|^au²tf gn^adgp vctvc u|Äm²i gu/pgm c nkp^gxg|²uv. co gn{ u|gtkv^g dk vqu^alc gppgm c hqp^aqu o w^anc/n^a4pgm u c jq|^aner euq^a»²tf gngmpgm nkt^ai^auc^ancp gn^av^au^a0 C r kncp^a{k u|Äm²i r^gv o gmgw c|qpdep o guu|gdo gp e²rqntc ku wcn< äC|qpn^aÄn ô ¶lc ô gppgm c| gi²u|gp h^arv p fgt²m go dgt^apgm n^ar guugi gkv gi {. rqrk^anek^aci ku hqp^aqu o n^a4²uk vgtÄrgv^a nk rgi gv cnp^a|pk u v n^ar xlu^agn j^a|k o cpf^awo qv x^ancij cv. gppgm n^a4g^angl/v²dgp n^a4xg^av^a n^arc euq^avc lwjcv c rctico gp^k 2rgvgn co k 2^tv^angi gn kun^arc rgu| cjjq|. jqi { n^au dd xgl gv^an^audcp emen c|w^au²n0 Gp²n v^ald l>v o^at ciki rgi gvp^g xcrcnk n o qpfcp⁰ U o²i jq|^a gi { Vku|c Kix^ap g^akuo gt²u²t n xcp u|»# C o lplu|vgtgp³m gi {2dn^apv uÄi u x^arcu^av n^at. o gtv u|gtgp² c| kf n^a4dgp o gi ÄÄv nqm|ux^atk o cpf^awo qvMrgdgndgti p^agmh^appvctvpl0

C nkp^gxg|²u o gi v^a4v^apv u jco ctucp w^apc Mrgdgndgti gp{gtv c nqm|ux^atk o cpf^awo qv ku0 Gi|gn c x^atqucn o^at gn| rgi xqncm dk qp{qu n^arc euq^avc⁰ O²i 3;380 hgt0 320²p o l^apv n^awu^a mco vkn^at. gi {km qw vctqv gn cf^au^adcp t²u|rgvug^a kuo gtv^g c Tqncp^aÄ {k J kxcv^a o n^a4²u^av u g jkxcv^apcm c x^atqucn n^arc euq^avcu v^atxgk⁰ Gn cf^au^ad»n nk^aftÄn jqi { Mqm|ux^attc w«ngl gn i {»i {lp^av^agv^a vgt/xgl gw0 Gi {2dn^apv nk^aglv^g. jqi { pgo eucm i {»i {¶» lp^av^agv^a. jcpgo o jgn{gnv kun^aif^anev o w^ancv^agr gngv. o w^ancn^a4xg^av^angv ku ngm u|gtxglpk o²i r^gfk^a c v^atucfcmo ugi ¶v o w^anl^apcm dgxqp^a/u^axcr⁰ Rtqi tco o dgu²f²v 3;390^art0 30²p o qpfvc gr0 Gmqt o^at c rqrk^anek^a 2rgv gr^a xqpc^adcp^a m< o l^apfgp u|cx^av. o l^apfgp i gu|w^av o²trgi tg v^aw^an0 Pci { h^arv p²uv ngngw. jqi { c r^atqi tco o dgu²f ärrk^anc^ao gpv^ai xqn< Mrgdgndgti c jcfki qpfq|» lp^av^a/o²p{gm u|c/rqt^av^a pcm Ä gi {gvo k v^apu²ngm h^arv n^a4v^a pcm Ä p²r kun^aif^am²u

kpvgp^a wuqm 2r[¶]u²pgm ul[˜]Am²i gu²i²t n dgu²rv= u[˜]ti gw^g c pgo |gk/ u²i k kunq^fm jcvj c»uccd gmgp t|²u²v c| krct²u o gl ic|fcu^fi tghqto / l^av o wpm^fuqvj qpqm n²vgu[¶]u²v ucd0 C| cmnqt k hwt^euc rqrksknek²rgvtg lmggo | . jqi { c dgu²fgv c rcrqm^ancf^fdep grkuo gt²uugn hqi cf²m eucm²rrgp c ulqek^fifgo qnt^evc o wpm^fu^fi jkxcv^equ qti^apwo c pgi gl o²p{gl v^g. jqi { c o wpm^er tqi tco o qv cf» Mrgdgnudgti ënqtvgu/ ¶²tgvgnvⁱ vgw. cjgn^fgw jqi { c ô x^arcu[¶]»lqi t»n dgu²rv xqpc0 C n²4 x²rgo²p{ pci {qdd t²u²v c| qpdc^p c rqrksk^an²u»n o gpvgu dgu²f^ancf^fdep ngmgo gugg²tkpv^gw0

C nqm| ux^atk dgu²fdgp ku hndwncp c n²u ddk mwn[˜]Arqrksknw gi {/gi { ngf xgrv gu²o²lg0 P {krvnu| km r^f0 c|^amco k²u hrgng| gk qmc²v u xku qp{^at»n ku0 ëUaj cugo wfw^o o gi²tv^gpk jqi { ul[¶]po ci {ct xkf²ngm l» o ci {ct kunq^fkv o k²tv^amco qu[¶]qwwm gn o knqt Gt²n² xgi {guclm[˜] n²4 u²i gldgp c|^amco hppvct» o ci {ctu^fi c| kf gi gp vcp/ p{grx kunq^fdcl^au ecwf kwo k ki^al^ap ngtgu[˜] n xqrv n²p{vgrp per per w^ap^a wqpw[¶]ki 0 M²u dd. c x^anq| qw xku qp{qm n²4 3⁴v p²o k o »fqu[¶]u^en w{cpgl v c ulgo tgi^ap{^auv o clf ku²vngp hrij q| c c t²i gddk o ci {ct kunq^rqrkskne gmgp0 L» ul qn^arcv^qev vgwgm c| gt²n²k o ci {ctu^fi ul[¶]x²pgm o gi p{gt²ug e²n^ad»n c p{grxj cv²tn²tf²utg vgw flku²m²v e²n^auck= rgtul^g eucm cpp{kv o qpfqw. co gpp{kv cmnqt rj²gvw0 O^at go rgi gw²m t»r. jqi { ëgi²ul ngm²v dgr²xku| k c n²4 ul qn^ai^arc²dci u c r^wul²vc p^gx²tg gu²dg lwqw c| go dgtgmpgm c ëpgo |gk 2r[¶]o wpm^ei hqi cm²0 Ctt»n r^gfkⁱ o kpf^gpnk o gi xcp i { | fxg. jqi { ëc l³4 go dgtg#

Rgtul^g pgo j²p{q| vcm c²o cf^auqm ugo. co gn²gm o clf Mrgdgn/ dgti gv gi²ul n²4 r^an^al^ap x²i ki n[¶]l²tkn0 Gmqt o²i eucm c d²ngv t²u cm»dd qu²v n²ckv l^atv²0 Kio²v gn ngt[˜] n c i {kmqpc^m ul^apv x^af< nupi tgi cpluc### R^atj[¶]kgk l»pcm n²w²m h rgi c r^tqv²pu x^arcu[¶] w/ rqn^atqntc xcn» vgn²pv^ggn c x^afcv i {qtucp o gi^eh²pk0 O²ic c Tghqto^awu Ugo r^g x^am²nu| qw c| ki c| u^fi x²f²gm²tg. j²cpⁱu[˜]n{q| / x^ap. jqi { dk²qu wfw²o^auc ulgt²pv Mrgdgnudgti pgo vcl²c c O^atk/ nupi tgi^aek²pc^m u ë¶ { plpeu nk²xg c²ppcm c| gi {qf²cn[˜]u^fi pcm co gn² gl² ulgt²pv c nupi tgi^aek²uq²nc^m pgo gn p{3⁴ugp lmggo | wcl²q/ u^fi w²0 Gi {²dn²pv v²ti {kci qucp o gi^am²rc[¶]lc. jqi { c n²rxkugn / lgn²4v v²p{r²i xcn²uqu nev²rknu0 Fg gl ulgt²pv gn p{²u²t²v²m= gr²itg n²4 ulgt²r²utg pgo ngm xcn²kv qmx²gv²pn c| cvj²gk o wupcm mx²rk/ n²ipk# W{cpgl c hqn²»k²ev ô dk²qp{^atc pgo o kpf^ggn |o²p{²u qm p²m[˜] n ô j²cpⁱu[˜]n{q| qwep n²go grk jqi { Mrgdgnudgti wul²vc o c/ i {ctu^fi dcp p w hgn u gi {²dn²pv ku c o ci {ctu^fi Ai²pgm c Lw²k^ap/ gi {gu²rgvdgp. vx^add^a c tqo^aplck o ku²l²xcn²u c| co g²tk²nk nk^ap/

fqtqncm i qpfql^au^axen nreuerxvdc p o²tjgvwgp u|qni^arcvnev vgw0
 Kuuq^rn^tn>n h⁴f tghqto t>n euk^an vgxngv ô fg pgo rⁱx^atncw#
 ëGppgm c| k^ga^rku ngm go dgtppm o kpf gp u|cxc ô tgerk³u# O kpf gp
 j^kdc0 C u|cdcfm o xgugm dwfcr gvk pcr kcr lc r^o pgo xgw w^fq/
 o^auv ctt>n jqi { Mrgdmgdti pgo nqpi tgi cpk^{nc} u pgi g| o²p{g| k
 jqi { Vku|c cmuqc jcvem cv d^qqw ègi { jgto chqf k^c 2^t|²u^amco /
 vkn^tttc. cnkpgm nqpi tgi^aek^ou xqnc p{^hv vkn^o0 Mqmq| ux^atv gi {2d/
 n⁷pvgi {j cpi Arci x^arcu| vq^wmo gi <gnep^lgr⁴mg ugo cncf v0

C nqmq| ux^atk n⁷rxkugn k o c^pf^awo o²i u|qtqucddtc h|vg
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 u^apv c f³pv eucv²tpgn0 |tf gm f²u²pgm 2^tdtpvct^vu^fq| jq|^a/
 l^atwv c| q^rj dg^v4²u. c o gpgm⁷u. c j^adqt^Àu r^vu|^vuqm co gn{gm
 ku²v g|v c t²u|v u^Àvq^wm c n^gi gt ugddgp0 Rlj gp²uv pgo ku^ogt ci {c
 o^at c j^adqt^À crw nk^fqⁱq|c c u|²ngn{u²i m^ww^aku 2^u ic|fcuⁱk
 hrgo g^ru²pgm vgx²v0 O kpf n⁷v x^a|rcvq lgi {|gv^g tk²v m o gi u^a/
 o w^{nt}c0 Crr l^adc p x²xg c n^gi u|qtqucddc p 3⁴u|ghq^p>f pcm vgxgkdp
 c m^ww^aku. ic|fcuⁱk u|qek²ku²u²p²rgi²u²i Æ {kr tqd^ro^a n0

C m^ww^aku cnel^o n⁷4rqp^va^pcm Octqux^au^atjgn^v u|go gng nk0
 G|v c x^atquv ô gi {2dn⁷pv c u|²ngn{u²i n^gi pci {qdd x^atqu^v ô o^at
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 p{wi cxc gu x^ato gi {2m o ci {ct u|>tx^ap{ck x²fgr²pgm xg|²tnet^av
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 i q^au^ap^an Mrgdmgdti o k^ogp rqp^vucp ngo²t o kpf gp gi {gu cfcvq.
 co k c p²rgu²i u|crqtq^fu^atc. 3⁴u|gv²v^rtg. ic|fcuⁱk 2^{rg}v²tg. c n⁷4/
 r^gng^f2^{ut}g v^d0 xqpcv^qkn0 .. t³o gn^a mcr^qlc o gi. jqi { c x^atqu o^atku
 gt ugp k^rctk k^ap{A^c uqm c| k^rctqucp^qe *: 94 h⁷thk 95 p + u c| gi {2d/
 n⁷pv ku h^glgw n⁷4qmc^vudc pci { jgn{gv h^qi ren gn c ic|fcuⁱk u|cm^f
 qmc^vu0 J cpi u^Àq|c. jqi { g|gp c ngf xg| w^{cl}q^c c p²r^lku^hw^wa/
 rku k^v|o²p{gm gi²u| uqtc ngppg r⁷v^uh^ggv. co gn{gm gi {h^gn n n⁷4u³/
 p³4gp v^oqi cv^am gi {o^auv. o^au^hgn n u|gtxgugp nk^gi²u|^vgp²m c o g| /
 u²i k v^qx^add^a c O g| u²i gv 3⁴g| u|>tx^ap{qⁿq^p o n⁷4 m⁷4p³4
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 kun^qrk k^vgtp^awu 422 i {gto gm t²u²tg. 40 g|gn nreuerxvdc p jcv
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 h⁷o k^rctk u|cnkun^qr k^vgtp^awuc ku ngppg. 60 p²i { u|cmcp^q>u 3⁴p^am
 vcp^qpekun^qr. 70 i {>i {r g^fci> i k^k k^v|gv gnu uqtdc p u²ngn{h⁴f k xem
 2^u ukngv²o c i {gto gngm u^ao^atc 72^ai {cu k^vgtp^awu^{ci}0 C| k^rctqu
 vcp^qpekun^qr nk²v^rtg^xgn c v⁴dk k^v|o²p{v o kpf c Lw^kp/gi {g/
 u^Àrgtg d^qp^a. èco gn{ gi {gu^fk o ci^adc p c|^amco k v^gngu o gi d^qjcw/

u^ai qv c v̄ tucfcm k k^ov^o | o²p{ pci {qdd o q| i²nq^o{u^ai^axci 0 Rqpvcup
nkf qn| q| | c c| cp{ci k hgf g| gv n^otf²u^ov^o C| gi²u| gv p²r lgu mwn^o/
vgrpgm u^aplc. co gn{ n^or qpvc rppg c| Gtf²n{ ngrgk t²u²dgp
o n^or 3/4u| gu grgo k kun^or pem^o g| gm u^an^ofcp^am c| k^ovgt^awuqncm
c o gi hrgn i {gto gncp{ci q^o0 ē^o{ c n^or qp^o 2rrgp qw ugi^o j| gvpg.
cj qn c u| Ām^oi c r^oi pci {qdd 2u c u²n^ogn^ou^oi n^oqo qn{ lgrgk n^ov^a.
j qi { pgo eucm h^a| kuqmen o gpl^oĀm jcpgo Oci {ctqtu^ai o gi vgu k
c ngrgk tu^oi p²r²²tv c| v. co ktg c o gi r>d^ancv^ou pgj²| kf glg w^op
u| Ām^oi g r^oi gw^o C v^ox^addkncp Euf^om| gtg^atc. Ugr uku| gpi {3/4i {tg
2u M^o| f k^au^o t^oj gn{tg i {gto gn^ox²f gm k k^ov^o | o²p{gn^ov u^ap^o Euf^om
u| gtg^atc glg n^of^oĀn o²i ô c dgtgenk jcv^otk^ovgt^awu o k^ov^ol^atc ô
euf^opi »/k^ovgt^awuv v^otxgl. cddcp c tgo²p{dgp. j qi { c| q^or j qm r/
i { | 2ug w^op c euf^opi »n^otf²u o clf pgo r^ogu| cpp{ktc ēp^ork o g vci gtgi.
o k^ov xqm^o C h^oi cteuk u| »tx^ap{/k^ovgt^awu v^ov | p² dg gi {gn tg c
j cvcm cu mwn^oa r^ou r tqi tco o q^o0

C i c| fcu^oi k r tqi tco o pgo ngx²udd² 2tf gm^o0 M^oĀ^o3/4p^o3/4gp hq/
vqpcm v^ocv^a c u²n^ogn^o h^of k^octqu^ou^ov. o gtv ēc| Qn/x^o3/4i {pgm
o g| i c| fcu^oi k rci o xgn^o gv t²u| g o gi r^oi gv ugp hgn xcp fctcdq^okc
u^o { c h^of o xgn^o c u| crqtqf » p²r gu^oi pgm gr^oi u^oi gu o gi 2^on^ogv^ouv
p{Āvcpk jxc/vx^add pgo wf^o0 C| k^octk n^or | 2u n^or qp^ov^awn c xcu^oĀk
i »er qp^ov ku cm^oq » Dtcu^ov u^aplc. co gn{ xku| qp{rci qu o ci {ct v^od/
u²i²xgn 2u hgn f k^oct^axcn c| gn hgn^ovgrngv n^or gu r^ogu p{Āvcp^o0 Hgl/
r^ogu| vpk c^ontlc c| qvcpk u| cm^omcv^ouv. k^ovgt^awuqncv u| gtvp^og v^oggo/
v^opk c vcpqeqm u^ao^atc^o0 O g| i c| fcu^oi k u| go rqp^ov »n u| go gv xgv c hq/
i cteuk o²p^ogd^ovtmc. co gn{pgm o ci {ctqm n^or 3/4v xcn » rctegn^o |^au^oxcn
u| gtxg^ogp nk r^oi gvpg gi²u| v^opk c| qno gp^ok o ci {ctu^oi q^o0 Pci { i c| f/
u^oi k r^oi gv u^oi gnv n^ov c h^of Āi { o gi hrgn hgn^ou| v^ou²dgp< i qpf qn r^o0
c| ^anc^ok cm^oo c| qvcm l »r^ovk cr^or l^apcm hgn^ocu| p^or^ou^otc ku^o ēk^ov
ngt^oĀpk ngnpg^o ô h| k j q|^a ô j qi { xcr^oo gn{ 2rgw^or vgrp. dwn
h^of x^anc^ocv u| cp^ar^ouc go²u| g hgn c tgp^ogm^o2utg ^am » r²p| v. xci {
j qi { xk^oi h^of cr^or v^ou^opcm pci {q^on 2u c| gr^otj gv e²n^op v^oĀ^o3/4
v^otxg n^orcu^om hgn jcpgo c o xgn^o o ci {ct n^or 2r qu| v^on^o u| gt²p{
cp{ci k gu| n^or gl^o gl^o o²tv gi {u| gt . fg v^ou^ogu. vku^o c 2u qre^o » p{ct^or^ouk
r^oi gv u^oi gv ngnpg^o p{Āvcpk c fwp^apv^ork o ci {ctu^oi ^ancn gr^otcu| qv
u^ov lgtqtu^ai kh^of mo »f^ol^atc^o0

M^o4 dgp ^ancp^of »cp f qn| qv c| Qtu^ai qu J cf ki qpf q| » J kxcvn
n^or^ou^o p. co gn{pgm 2^or^otg Vku^o c ^an^of^oqvc u co gn{pgm ukngt^ogu vx^add/
hgn^ou| v^oug n^ogf x²²tv o gpv ^av c o k^oku| vtgnp^o3/4m^oi tg^o O²i 3; 37/dgp
o gi cr^omw^o c| c d^ok qu^oi. co gn{d n c| Ā j kxcvn n^oh^oto^a n^of qv^o0 C|
cr^or qv c| 3; 37< ZX0 v^o0 tcmc r^o0 co gn{km n^oo qpf qvc. j qi { c tqm

ncp^w x^anv rgi²p{u²i k^amqo^ap{Àcnev. co gpp{kdgp tgo²p{ xcp cttc.
 j qi { ngtgugv^r rguu²i Àngv gi²u|gp xci { t²u|dgp xku| cp{gtj gkm
 w»ng| gr²udgp. i {cnaqr^vk qm^ev^udcp ngm t²u|gu^fgpk⁰ Wi {cp| c
 v⁴x²p{ i qpf qunqf qw c o x²i vci qntc u|qtw»nt»n ku⁰ Cnk gugvgi
 pgo xqrv j clrcpf» o ci^av c| qtxquk u|cmcp^aeuwⁿ o gi^ancr^fqvw
 w»ng| gr²upgm cñ^axgvpk xci { pgo xqrv j clrcpf» vx^addcwpwpk
 krgv rgi o x²i vci qv j cu|p^arp^k c| gr^kgu|v^wg ki²p{²v c tqmcp^v
 p{wi f^flj q| . xci { c| gi {²d hto^adcp xcn» gr²v^uuj q| 0

Gn rgi gv i qpf qpk j qi { c j qu| cpvc» j^adqtÀ n⁴kgvng| v²dgp
 o leuqf c j cvm cu kp^v| o²p{ nk^rr^fu²v v^wg u|Àm²i guu² gl c| gri qp/
 fq^ru⁰ Mrgdgdgti o^at c Lw^kp/gi {gu^Àrgvdgp dgd^kqp{^fqvc. j qi {
 u|gtxgl pk gu tepi Àcp wf⁰ Oquv gl c pci { i qpf l²u|v c| x^anc^kc
 pgj gl gf gw⁰ Cf cvqm xcp^pcm t^a. j qi { Vku|c K^wx^ap u|kp^vg xcn^up d^fq^w
 r qp^vu^ri^adcp²u^À {u|gtg^vg²dgp⁰P go ku euc^rv^ung| qwd^kcm^adcp⁰

C| cmu^qtk u|cn²tv qtxqu/o w^pnev^utucm gi {kng o²i j quu| À²xgm/
 ngn c j^adqtÀ dghgl|²ug w²p ku euq^amq| xc go r²ngl km o gi Mrgdgdgti
 pci {u|cd^au^À gri qpf q^ru^{ck}»n c nk^xkg^pgm c| gi²u| crrct^awu o gi/
 xcn»u^fu²pcm v⁴n²rgvuu²i²t r⁰ C hgr^ccvqm o gi rgi gv ugp u|²vⁱc| vcn⁰
 Xqncm u|qtquedd²v²rgo dgp xgw w»ng| gn kp^v|gv^m gl gnj gl euc^vr/
 m| vcm c dgd^rg^vgi gm u|^ao^atc c ur ge^kr^{ku} n²tj^a|cm u|cp^wtkwo qn⁰
 Hgn ngn^w aⁿf^cpk c o gi hgrⁿ o x²i vci /i^atcnv. o gi ngn^w
 u|gtxgl pk c tqmcp^vku^ur²nev. o w^pnen²4 xg^vngv. vgr^rg^vngv. o j gn^g/
 ngv c i {»i {^flj cv^vep^qm n²tj^a|^av u^d0 C| gi²u| o w^pnⁱv c l²tcf j cv^v/
 rcp Mrgdgdgti k^ap{^fqvc⁰ Gt^gf o²p{gk o kp^fg^{pn}k u|kp^vg euq^ar^v
 x^fx^vm n⁰ W»rci lqi cn^ancr^fq^wm o gi. èj qi {²rgv^an^al^apcm
 n²u ddk²xgkdgp. i qpf q^rcv^ogp^vg²dgp. ²txgr²u²dgp. j cu^qpr^vckdcp o gi/
 v^ri²lwm²rgv g n^utu|cnⁱpcmo c^tcf cp^f» j cv²u²u⁰

Cttc pl^oeu ugo m^qo r gv^pek²pm ugo vt^Àpm j qi { g euq^ar^vqu
 o p^gm o kp^fgp t²u|rg²v r qp^vqueddcp ku^ogtvuu^Àn⁰ Eucm p²j^ap{
 v^kknw o q|cp^vqv go gn^Àpm n⁰ Kⁱgp r⁰ Mrgdgdgti r^atcw^png^fg/
 o²p{gl n^rr guu²i g⁰ K^v pgo xqrv ègn k^v. ucd^up. o kp^v. co gn^gv ng
 rgi g^vw xqpc o^au^rp⁰ Ngi h²4gdd v⁴v²pgk cpc^vi k^c xqrv. co gn^gd n
 nk rgi g^vw q^rkcup^k c n²tf²u o gi q^ri^au²pcm n²4gr² xqrv⁰ K^vck n²4³v
 t^apm o c^tcf vcm c x^aek U|cd^f N{egwo dcp c| q^wcpk j cf k^qmcp^v
 vgr^rt n 3; 39 n²4 gr²p v^tvq^w dgu²f²j gl n²u^À lgi {|gv^k co gn^gm
 o²n² dgr k^mcp^vuv gpi gf p^gm i qpf q^rvc^kd^c. Mrgdgdgti wi {cp^{ku}.
 j^fkgp o kp^fg^{pn}tk gr^kg^j gl. c v²tuc^fcm cv ku dgr^g n^fx^apv xqpp^k c
 j cf ki q^pf qⁱ u²vⁱc| » o w^pnⁱl^adc u gl²tv u|^fxgugp x^ancⁿc ku^ogtv^v
 gn cf^au^qm v^tv²u² Gi {km k^ggp gn cf^au²t»n c n^ung|ux^atk»n o^au
 xqpc^vu^q|^audcp o^at o gi go r²ngl v^Àpn⁰ Rcp^ul n^uf km j qi { c o ci {ct

nî4 x²rgo²p{v. ô uclpqu ô o²i pgo²tfgm k grîi² c nî4 gi²u|u²ik²u
 u|qek²r qrkknk0 Dg|gi²tfgm k rñ0 c hrgngl gk nîtf²u# Cnk eum hw»nci
 ku t²u|v xgw c rqrkknk²²rgvdgp. vrcu|vcj cwc. jqi { xppcm d¼q/
 p{qu ênîtf²ugm. c rgi v¼ddu¼¼ h¼¼¼¼g o gff À0 p0 rtqdrîo²am co g/
 ngnpgm o²t c rvu|vc go nî²ug ku c jkxcv²uqu dclngxt ndgp nmgogv/
 u²ik kpi gtngv x²nv nî0 ëG|gm Ài { jvcpm o kpv c nîx². fqj²p{. xci {
 o qthkwo 0 C dclqp eum Ài { rgi gvg i {³ngtguvp ugi ¶gpk jc c ucl»
 gi gnv n c rqrkknk o qthkpv²m»n o gi xqpp² c p{k²²pqu²i qv. c
 nî4³pu²i r gfk i²tfgm f²u²0 C| èrtqdrîo²am»n Ài {ugo l³p nk
 ugo ok l»= gl|gn u|go dgp c nî4 gi²u|u²i Ài {k²u u|qek²r qrkknk²²tfgm
 n f²ud n vgwngv. kp²|o²p{gnv. u|gtxgl gvgngv rgi gvg rgr²²tqpk0
 Eum c|v tgo²rk jqi { c j²dqta gl c pci { r gfc i»i wu. o clf t²pgxgk
 u v t²nîp{u|gt¶k c pgo|gvg c| kn{gp k²p{À²²tfgm f²utg. o kpv
 cjqi {cp rñ0 c ZXK0²u ZXK0 u|0dcp ku c uqm j²dqta c u²n{qu go/
 dgtxgu|v²i gm o gi vgtgo vgw²m rgi cñ dd ng|fgvrgi gu hqto²dcp. c
 p²ri qpfq|²uv co gn{pgm cmmqt c rgi h dd u|go rqpvc xqv c p²rgu²i
 r²u|²o²²pcm go gr²ug0 O²i Xcwdep. c pci { htcpek x²t²r¶v ku hqi rñ/
 nq|qw g nîtf²uugrñ K0 Hki {gu. O²tk Vgt²|lc. K0 L>|ugh u|kp²p pci {
 hki {gm gv u|gpvngm c rtqdrîo²pcn0 C hgrfcvqm c|qpdcp o c gi²u|gp
 o²uqm T²i gddgp c tqmepcnev kpxcik wu|meu²²tp{²ndc i { l¼¼²m
 ¼u|g. xci { nqr²wpk gpi gf²n0 C| À jcfki qpfq|²u gn u|¼ o kpf gpv
 o gi vgu| c rgi gv rgi v¼nîrgvgudd i {»i {w²u²²tfgn²dgp. c|w²p kum/
 r²nev cncr¶v co gn{gm u|kpv²²u|tgx²vgr²n cncwpcm²v o jgn{gmî.
 c o jgn{ nî4²n²r²n o clf c u|²r ngtw²²tqu. c o v²nc gtgf o²p{glv
 o gi tgpfgk o clf c jcfugtgi²u c|²mco uvd0 I qpfqumqf pk nî²²p
 vto²u|gvgvp c|¼ xgi {gm n²u²²tx²nt»n ku0 Eum c|qp rcpcl nqf km
 jqi { o kpf gp o gu|gddtgp²| kp²|gvncr¶²²upcm rgn²²fj gvgvgr
 i²vcv xgv c pci {qddu|cd²u²²r¶ngl²u rgi gvgvgrpu²i g0 C tgpfnî²Ark
 pgi²|u²i gm nî4¼v o²i ku u|kpv euqf cu|²o dc o gi { o gpp{k o kpf gpv
 ukng²n Mrgdgn dgti pgm r²vtgi q|pk. nî4 v²m À. jvcwm cu m²tj²²cnev
 ²u|cpc»tkwo qncv0

M²u dd. gi {km uqr²pk rtqi tco o dgu|²²f²dgp. lqi qu d²u|ngu²i i gn
 go r²m|km o gi x²i|gw o wpnl²²t»n0 K²|go glv c t²u|rgvgv o gtv gi {
 o²ukm vrcmw lngo xqp²uc fgo dqtqf km nk dgn rg< c jqt¼ qpvngr²gu²u.
 c o gu|gdd l³k dg vgnkp²u0 ëPgo xqv j²v. ô o qpf lc ô jqi { m²r²²f k
 u|cngo dgtgm pg l²²vc m xqpc vcpw²²p{q|pk kp²|o²p{glvngv00
 pci {²t|²uugn v¼¼¼¼g gn rmgogv jqi { c j²dqta²²rgvdgp o ctfv²²rfq/
 |cvc²²tfgn²dgp fqii q|jcwco 00 c jcfki qpfq|²u vgtxu|gt nk²i ¶²/
 u²xcn²²ncr²pqu²²²vgr²xgn cnetwo c o ci {ct p²rl»r²v²i {gv u|gtxgvgp
 hghgu|v²pk0 C jcfk²²xc Ài {gv pci {u|cd²u²²i {gto gn x²f rgo o²²cnet/

vo nku²rgu¹gplg G| c|# Mrgdgnudgti uqjc ugo wfwqweucm c rknpcv/
pcmfqriqlpk eucm kfgkinnpqu cmu¹uqnev r²rgu¹gpl0 O²i c| ko rtqxl/
|^an¹u^an ku. jc t^an¹p{u|gt. An. c l³k v. o kpfki c o ci {ctu^ai l³k l²v
vtvqwe u| go gn w0

U c jcto cf km mrgdgnudgti k xqp^au< x²i vrgp u| qti cm c. jcnvwp
vcpw¹nqj{u^ai c# C o mgwg fqriql} u| cngo dgtgm pgo i { | vgm c| qp
euq^amq| pk jqi {cp ucl^a v¹ij cwc gn gi { cfo kplu| vcv¹k u| gtxgl qn{cp
i {qtucp. qn{cp cnr qucp c vx^a ddk hqpvu wfwpxcnv. n¹4³4¹m pgo
wqn} uqtdcp o²i c| qtxqucnv ku# fvcfo c u| v gi { km xqv o wpc/
v¹tu^apcm gi { km lrgu qtxqurqhgau| qtwnpcm cnk gl v c vx²ngp{u^ai gv
n¹4³xvrgp n¹4³grd n hi { gnj gw< eT³kf j} pcrqm cnw v¹u¹v¹dcp xqv
c| qtxquk ugi²fgu n¹4³m o x²i vci qm u^a| l²rg hcl¹l^apcm r¹p{gi²xgn
o ci c i qpf qumqf km c o gi hrgn cp{ci dgu|gt|²u²t n hi { grk c nk^aru|/
vqw nqputwn t³m o wpi¹l^av(00) kf g^am v¹o cfpem hgl²dgp(00) Oguytk
n¹|| gn^an¹lc dg c uqnt^ap{A n¹4³ki c| i cv¹u¹0 0 Ngm¹fk c| cp{ci dcp.
u| cngo dgt dgp. vrcu| vrcv dcp xcn} j²p{ pgj²| u^ai gk0 0 0 Gnp¹v¹k c
n¹p{gu u^an¹r^auqnev c ncvpcu^ai i c(00) gi { A¹{ctcd gnp¹v¹|²uk kfglg
^avci rgu^am j²v pcr t0 O kpf gdd n rqpvcup t^akuo gt. An# O kpf gp
t²u| rgvv o gi vpw co k c| A¹{ r¹p{gi²pgm o gi tci cf^au^aj q| u| An²i gu.
gt ugp^am c o kpf gppcr k xcn^au^ai vrc¹p. fg co mgw gri qpf q¹uck
o ci cucp u^atp{cpem u| kvg o kpf gp i^av¹u p²m¹An u| cdcf qp(0) 0
Cgs vgo ci pwl p o kpo ku gvo czko ku#

Wi {cpgdg c|²rgu¹cnv dc gukm gi { o^aukm pci {ct^ap{A vrgu¹/
o²p{g. c V³4²pgm k V^atuwrv All^au| gtxgl²ug0 Vwclfqpn¹r r gp cppcm
c o^au¹n²x¹gfpgm v³4²pg²v. co gn{gv g v¹tuwrv²r¹p v³4¹4¹m n¹4³p
o wpi¹dcp nmgpg x^a| qpk co gn{j| hgnj cu| p^arcpf} rppg c o^at
n¹4²vgw cp{ci qp n¹k¹An gi { gu v³4²pgw¹u¹ckpmen¹ h¹rgi M¹tn¹k
f tr^affcn+ hqn¹vcvqwxrg¹ug ku0 Kv eucm c| gnp¹v¹uv¹kuo gtv¹An
u kpi¹dd c n¹u ddk wfw¹o^ap{/r qrknuw hgn f²u²pgm c| gi { km f³pv
lrgpv u^ai u| cnv^av r t> d^arlwm rgi hqpvucdd xqp^auckdcp o gi tci cf pl0
Cj qi {cp c Lw¹k p/gi {gu¹rgv o wpc o kvgi { gn tg xg¹vgw c n¹u ddk
kun¹r²r¹v²u pgo| gpxgn v c V³4²pgm k V^atuwrv All^au| gtxgl²ug
xku| qpvn¹4³xvrgp. Anc wfw¹o^ap{/r qrknuw gn n¹u| Argv xqn0

V³4²pgw¹u¹ckpm hi { gm²v Mrgdgnudgti tg v¹p gnu uqtdcp c|
c n¹4³An²p{ k^ap{v¹qvc. jqi { n¹4³qmcv^au^ai {k^amco vkn¹t nqt^adcp
uqm gi {²d i qpf lc n¹4³4¹kv f v²u hi { gm gv u| cn¹qvc c nqpuvcp¹r qn¹k
o ci {ct wfw¹o^ap{qu kv¹| gv o kvcu|gt o gi u| gtxgl²u²t² ku0 C| v eucm
ngxgupp wfw¹m t>rc ô jku| gp o wpi¹l^apcm gtf o²p{glv hrgi c pci {
u³4²w¹d¹ru u h¹gvm tglv¹gw²m ô jqi { kl¹A nqt c }>v o gpp{k kf v
u| gpv¹v³4²pgk q¹kuo^ap{qncm u v o²n¹gdtdg jcvq}. mwc}

lgngi vcpw^ap{qmpcn0 C|v o^at v̄/ddgp 2u|tgxgi gw²m jqi { o kpf gp
 cf fki k o wpi^la dcp. u|gtxg|²u²dgp c vgtxgm nk^lqi q|^auc gn w c pgo/
 |gk o Æncv d³pi²u|vg^av vcpw^ai qn^lt0 Gi {gu dkl cm cuck vcr^lp wf/
 vcm t>nc. jqi { v̄4v̄pgv̄k co d^lek^lkv o²i pgo vgo gwg gn< ctte
 u|^ao^lq^w jqi { |cmvq^w n̄4r^an^alc x²i²p grlw c o gi hgrgn qvko/jq|
 u k^lÄnqt^k ^am clp^{cm} rgi cñ^ldd gi { t²u²v g|gp c v²tg^p ku o gi xcn>u^lMc0
 Cpp^an pci {qdd o gi rgr gv²u xq^{rw} c u|²rgudd n̄4 u|cñ^ltf gngm²i
 u|^ao^atc c| c v̄Ä gu dwi>u^li. co gm|gn c| gnu wfqo^ap{qu kp²|gv
 o gi cmqv^lu^ljq| jq|^alqi qw0 C| gi {km kng²ngu u|cmgo dgt n̄u dd
 o gi ^lvc. o gpp{ktg o gi rgr vg c j q|^a2tv ngv c| gn|gvgu fkrqo^aekc
 v̄ti {cñ^luqm p{wi qf v rgdq{q^lu^luc. c| kp²|gv u|gtxg|²u²dgp xcn>
 n̄4Ängm^lv²u. c e²m^lv|²u l̄rtg²vj gvgv^p o gi jcv̄tq|^auc. c| cp{ci k
 hgn²vgrnt n xcn> i qpf qunq^au. c v̄tucf cmgo²tf gm f²u²pgm hgr^ld/
 tgu|²u²tg k^ap{w> rtqrci c^lpc0 Cnkm gn| o wpi^lu^ai^av n̄4 grgddt n
 kuo gt²m c|qm t^akuo gtj gwgm c t²ik Mrgdgndgti t^g0 Fg o²i c dgxcvq/
 vcm ku ngrgo gup o gi rgr f²g^ancr^lq^w^am o gi. jqi { k^lguo kv c o ci {ct
 wfqo^ap{qu²rgv gi {km kp²|o²p{²pgm o gi u|gtxg|²ug vt²p cñi
 tgo²n̄j gwgn0 è23{cp gi {²pk²i n̄4xqpcrk dqpvcnq|vcm nk cmqt
 gn w^lpm cñk kuo gtk c o ci {ct v̄4v̄pgrgo rtqdr̄^akv vku^lv̄dcp xcp
 c mwc> o wpc^l pgo|gk²u pgo|gn̄4k lgrpv u²i²xgn²u c|cn ku.
 jqi { gtgf o²p{gu o wpi^lv eucm c mwc> o wpc^l o kpf gptg nkgtl^lg
 o gi u|gtxg|²u²xgn rj^lgv gr̄tpk u x²i Æn cñk cñt ku. wf ku qn|cp u|gt/
 xg|gvngv r̄v^lgpk o gn|gm t²x²p c nk|³av e²nqm gr̄t²ug rgi cñ^ldd
 ku xcn>u^lp 0

Co knqt 3; 380 fgego dgt²dgp c jgtegi jcm k xcu^lÄk ncvu|t>hc
 vci kmwcp nkq^lqvc Vj cm>e| { Nclqu²rgv²v i qpf qunq^lpk ngrgw c
 V³4v̄pgrm k V^atuwcv gr³/m²i²pgm dg³/v̄²u²t r0 C nqpuvcp^lkp^ar qn^lk
 kp²|gvgn ncr euqrvcu v̄ti {cñ^luqm hqn|co^ap xgl gv v̄4v̄pgw>uclpm
 qn|cp gi {²pk²i gv kuo gtvgm o gi Mrgdgndgti dgp. jqi { c|qppen t^ai qp/
 f qncn0 Mrgdgndgti c nk^lAv^lgv o gi d^lu³/4³o o gngrhi cf v0

J qi { c x^arcu^lv̄u o gpp{ktg u|gtgpeu²u xq^{rw} o gi o wcv o^at c|
 gnu gr³/nk o gi p{kw> dgu²f dgp cfqw rti tco o. gppgm qtu^ai qu
 xku|j cpi lc. fgh rgi c| w^lpc n̄4gvng| ukngtmj quu| Äuqt0

C| 3; 390 ^art0 480^ap vctvq^w dgn̄4^l3pv u|kpvg o^at vgrlgup c
 n̄u ddk Mrgdgndgti gv v̄tlc gr̄pn0 C jquu|Ä j^adqtÄ o²i gi {tg vctv
 c nk^lv̄uqm gi {tg u³/4²vgddgm Mrgdgndgti c|qpdcp d^lkn0 C| c|
 qr vko k o wu. co gn| pgo|gv²pgm uqt^axcn ncr euqrvc^ldp n̄u dd. c
 rgi u|qo qtÄdd jgn|gvdgp ugo kpi qw o gi dgppg. o²i v̄4gvng. d^at
 rmg rgi o²n²p vcr^lp gm^lu|Äv c rgi tqu|cddtc ku0 Gppgm gm²tg
 p{wi qf vcp. u|kpvg fgt up² c l³/k dg. ogtv c o ci {ct v̄4v̄pgrgo d n

c|v vcpwnc. jqi { c o gi r t > d^ancv^auqm u v nevcul t > l^am uqmul qt
 v^apgo²p{gu hgn f²u. euqf^au hngpf^au n^akp^aw^ar qpvck^a crenwncm
^av0 G| c o gi p{wi v^aw vpw^ai/rgxq^au cpp^an hgn p dd. ogtv c
 o qptejlc o²i^amv u Oci {ctqtul^ai l^af²p gi {gv^agpg^angpu²i gu nevqpc
 ugo xqn0 Vgj^av pgo xli cul vcpk cnetv ô gttg o²i pgo xqiv ul^aAm^ai ô
 jcpgo o^at gmq^at c o ci c o²n{gp^a v²t|gv.v⁴v²pgog d n ngu| tv ki c|/
 u^ai^avj kf gwg0

C v⁴v²pgk v^axrcvcm c jcmi c w^ai gr^a xgv^aug w^ap t^av²t c
 rtqi tco o tc. co gn{ c v^atuc^ai²ng^av²pgm o kpf gp r^ap{gi gu r qv^atc
 nkgtlgu ngf kn c wf^au w^apr^av^aut c. c o gi hgn wf qo^ap{qu^an^auqm
 ul gtxgl²u²pgm ul^aAm^ai gu^ai²tg. c hqt^aunkf x^ap{qmpcm²u c| gl gmg^an
 nreucrvqu mwc^a o w^an^apcm hqv^au^ai^atc. c pgo|gv^agpgn hgnf c^atc
 ku cmem cu xqpl^add hgn qni q|^auqm lgrpv u²i²tg uvd0 Ogi go r^angl km
 c pci { gn f³nt n c Hgl²t I {³4i {³4m Mer tkpckem Jgxgpgu^akgm Mvqpc
 Kw^apqm r^atcvcp o w^an^au^ai^at^an u g|gmg^an c pci { r²rf^amnen e^ahqlc
 c|v c| e³pd^ackm w^anev o qt|uq^a x^afcm^au^au. o k^avj c o ci {ct hcl
 pgo rppg cmem cu nkct^a. n^akgvng|gv^au gt hgu^aug0 C t²ik
 o w^anev^afx o c ku²n eucm ul gtxgl²u²u xgl g^au fqi c. jqi { gtf o²/
 p{gntg lwuq⁰ p g Mrgdgudgti xct^a|uki²lg< c ul gtxgl²u^a Ogi i { | /
 f²ug ul gtpv c o qf gtp nqtul cm > t^auk o²tg^agv eucm ul gtxgl gvmgn
 ngj v^ah^apk0 Co kg nqt^addcp gr^ai xqiv ngm²u vj gv^ai gu go dgt gm
 gi {²pk x^amem^auc. cdd^an o c o^at ki gp uqnev eucm ul gtxgl gvm r^av
 jvpcm gn ukngt gup⁰ M^au dd c|cn x^afqn^am jqi { o k^agpv eci {qp
 cnetv ul gtxgl pl^au crer^adep x²xg pgo cfv o gi c| gi {²pk gt hgu^au/
 pgm c o ci^av0 C rgi pci {qdd v^axgf²u^a J c xernk cmqt . c| gi {²pk
 gt hgu^au. c r^anev^acp ul qti crqo j ug xqiv eucm ki c|^ap v^avdcp
 c| e⁰kp^aklf wwo kpg^acdk^a hqv^au^ai^axcr0 Fg xku|qv cff ki k o n^av²u²/
 d n c|v ku wf^a. jqi { c| gi {²pk gt hgu^au ul^ao^atc c| guvgm v^aqo^a »
 t²u²dgp eucm c o gi hgn ul gtxgl o w^anev^agtgo vj gk o gi c ngf xgl
 hgn^av^angv0 Pci { o gi²t^au^agn dgu²n c wf^a»v^ag^agr^aut n co gn{gv pgo
 ul cdcf e^ac| A^angk²ngv. c dghmg^av^au dk v^au^ai^apcm ul go r qv^ad^an p²| pl⁰
 O^at cmqt hqv^au^acm v^aqwc ô g|v n^au dd o²i cpp{ku|qt j cpi /
 u^aq|c# ô jqi { c vj gv^ai gu go dgt gngv kf gl²dgp o gi hgn^a m^auj q|
 ngm lwvcpk ogtv< e^ac| c pgo|gv o gn{ pgo n^ar gu vj gv^ai gu hclpcm
 nkgn f²u²v dk v^au^acpk²u ngv c pgnk o gi hgn jgn{tg^an^acpk c| c
 n^av²ru|gt u²i ng²p gnqtxcf0 Pci { ul gtrgv ul^ap c m^av^afk k^akv^agv^am
 pgn0 Gi {gn tg eucm T> o^axen²u M^apuvcp^ar qn{cn ul^ao qn fg o^at
 ul^aAm^ai gupgm v^atlc gi {dgeuk k^av^agv ul gtxgl²u²v ku0 Gn tgxgk^atp{²n^av
 c n^au ddk³u|v^apf^aclnel». co knqt j cpi u^aq|c. jqi { c|³u|v^apf/
 f^aclmi^av^au²d nc|^amco pcmku nkngmxgppk c o ci c t²u²v0

Ngxgrgl²u²pgm o gi t|³4v t²u|g ku o wclc. o gmnqt c jcv³uv vgw
 gl c dgu|²f o kpf gphgr² c| qtu|^aidcp0 C j¹rkrk xku|j cpi qm n³4²Än
 n³4²w²i vgrgpÄn c rgi hqpvqucdd xqrv T^anquk Igp o gi go r²ngl²ug c Dwf c/
 rguk J¹rkr 3;390^art0 490^v u|^ao^adcp0 T^anqukv o ci^axcn tci cfw c
 v³4²pgvk t²u|< ë| p o²i pgo jcmqwo ô² flc ô c o ci {ct dktqfcmqo
 v³4²pgvg gi {gu l¹ku|kpcm gi {dgnereuqnf} hgn f²u²v flk²j²ldcp Äi {
 qf cxgpk Äi {u|»^anc^ap gi {^atmw h²g²t rcrktqtc. o kpv c jqi { o c
 Mrgdgnudgti Mwp» eulpa nc00 O kpvj c c| gm Äv gl gt gu|v²pf p ngtgu|/
 vÄn tgrÄn i²r gp xkwg xqpc jcn¹cw²kv. jqi { c fleu u²i i gn u| gpxg/
 f²u²gn dgo r¹u²cn² u cmq²v²u²cn vgrgu kf m n³4²pgm lgrgi|gvgu nqpvÄ/
 lckv o cf^at²v xrvd»n o wcuu dg gn vÄpn0 J cuqpn» o²n² jcv³uv vgw
 c l³k dgp² t²u|< m¹kmw. fg o²i ku dk cmq²»# | m²p{ xqrv hglvi g/
 v²ugk jcn¹cvpk u n³4²dgp gr²m²g²pk0 ëG| c mÄp³4u. o ci {ct go dgt
 p{gr²pgm nku² pgj²| pgx it»h¹ ô co kpv T^anquk o ci^av n³4²glk ô
 gi {kng c rgi hqpcv²u²u²dd o ci {ctqnpem gi {km rgi u|gdd r²rf^alc ô
 u|gtkpv ô c o ci {ctuf¹ j cvcm cu xqp|»²u^avcn¹» gtgl²pgn#

C n³4²ddk gr³4nk dgu|²f gm ku o kpf ki l»h¹to^ap Äppgru|^ao dc
 o gpv²u o²n²u²i gupp jcvqwm c n³4²x²rgo²p{tg0 Mrgdgnudgti xg²v²ug
²tpk ngl fgw0 Mg|f²m o gi²tv²pk mÄp³4ugp o^at c nev²u|v»hc dgn³4
 xgvngl²ug w²p. jqi { c wf²qo^ap{ o kv lgrgpv c pgo|gv²rg²dgp0 Hgn/
 hki {gn²m c mww^aru nzwur qp²»n u|»n gr²m²g²u²tg< pgo u|cdcf
 lctcu|v²mco^a xku|chgn fpk u gl|gn nqen¹tc vppk c lqi v²pnv. jqi {
 Gw»rc n³4²gr²p pgo|gk r²gv hqn¹v²u²wpn0 C j cpi gi {gn tg o²i
 i {gpi²dd. fg o^at pgo c rvu|v²dcp nk²n²# C| gu²xgm gr³4nk o gi/
 p{k²k lgrgpv²m c dgxg|g²v²uv c j j q| c o q²to gp²ru ci k²ek²j q|. co gn|gv
 o clf c mwwu|o kpv|gt c o ci {ct mww^ac hppo c²f^au²pcm
²tf gn²dgp j quu| Ä²xgnp^av n³4²gl0

Rgtu|g cnefv mÄp³4u. h²teuc. rqrk²nek cmw|v²mw dg^an¹qwa²i/
 »n vqt|¹q²w xku|j cpi ku o kpf l^atv c| gu o gi p{k²» dgu|²f cmcm^ax²cf0
 C nev²q²ku²qm cmqtk xg|gv r²l^apcm gi {²dn²pv lgrgu rvd²ku²lc.
 cnk mÄp³4dgp n³4²dd ku^an²j cv²qu v²o cf»lc o c²cfv Mrgdgnudgti
 mwwÄr qrk²n¹l^apcm c| gi²u| rtqi tco o d»n eucm c|v c| gi {/n³4²
 o qpf cvq jcmq² o gi. co gn²gn²gp c| Ä gr³4n^an¹u² hqi r²nc c o ci {ct
 n³4²rgv vÄ qw rqrk²aⁿ j cln²pf»u²i^axcn u|go dgp0 Glv c i qpf q²cvq
 kuo gtlÄnk Mrgdgnudgti o^at c J cf ki qpf q|» J k²cvn rtqi tco o/
 l^apcm x^aek kuo g²v²ug cmcm^ad»n ku gn²ng. jqi { c o ci {ct n³4²wf²v²
 dcp ô uclpqu ô vÄ|q²cp pci { c rqrk²nek u|gtgr²u lgrgpv u²i g.
 j q²qv k²n¹dd c n³4²i c| fcu²ik u|qek²ru. wf²qo^ap{qu u²d0 cmq²v²qm
 n³4²pj cv^am c o ci v²u^ao^atc c p{k²ap²u²i qv^anc²dcp c|
 Äi {glo gw0 Qn|cp v²gn gl. co gn|j gl pgo rgw xqpc pgj²| c u|gn²o

go dgt²pgm eucvencuj|pk0 C ekmf|» c|qpdcp Ài { rfwc. jqi { Mrgdgn/
dgti. c o wpcr^atk rqrkkmw. wrcf qpnr^rgp c o ci {ct hÀi i gvnp²ik
x^ai {cv u|gtgp² grncvpl# G| o^at go dgt^h4⁴wk i {cpm^xa# èQ3{cp
rqrkkn^v ngn eulp^apk co gn| hrgurgi gu^r vgu^k c rgi lqdd o ci {ct gt m
hrgo²u|v f²u²0 C| w³p l³gv Mrgdgn^dgti nwn^{Ar}qrkkn^lc0 C m^ka p/
uⁱ nku^r v^Àqvcp ukngt^{Av} u o^aun^rpv. o^kpv c lrgu rwdrek^v i qp/
fqc0 C rgi lqdd o ci {ct gt n^gm c| qu^va^m dghn^au gmgp x^kqw
n⁴lqi k jcteqndcp xcn» hrgo²u|v f²u²v x²i^Àn ku c v^kcpqpk d²ng
u|Àpvwg o gi u c|w³p l³gv Mrgdgn^dgti nwn^{Ar}qrkkn^lc0 C| »jclqm
p²j c pci {qp h^weu^r p v^glgu^{Ar}pgn#

Mrgdgn^dgti ³4rgvu²i g. v^ri r²npj {u^ri c. dwi cm c. l^rtcf j cv^v/
ncp r^gpf Àrgv. k^ga r^ko w^vc²u xcn^ui²t²ng t³klf k^f crw xcn^ui²qu
eu^fa^v o xgn^v c v³tuw^v ²ng^vdgp0 D^ow^vqucp ²tvw jql¹a. jqi { c
ukngtgu o wpcⁿ gn hgn²vrgkv o gi vtgo w^g0 Gi {km pci { gtglg c| xqm.
jqi { c nk^v |³4v e²nm ²tfgn^rdgp o gi w^vvc o qli^vcpk c v³tucfcmo
^arfq|cm^ru|u^ri²0 Ncu^vcpn^kpv gppgm c o h^lpcm xcn^ui²qu x^kw^v|c
rgu⁰ C V³4^vpgm k V^atuw^v o ci^apquqm cfqo^ap{ckd»n²u i { l^vu À¹p
ku ct^ap{nci jcvcm cu. c| cmn^rtk xku|qp{qm n⁴3⁴v m^À4³4^gp vku v^gvtg/
o²n» v n^rv i { l⁰ C h^qpvqucdd cfqo^ap{qnt»n o ci c Mrgdgn^dgti u^a/
o qn dg c p{k^apqu^ri gn w pgo ku v^{cn}eti^vxc c|v c v⁴4gnx²u^v jqi {
g r²rf^anev tci^anq|»m^l vgi {g0 Gi {km k^ggp À^ui²ekm^rdgp pgo o^kpf gp
e²u^a p²m^Àn wcn c n⁴2^rnu^{tk} H^ggp|g r²rf^al^{tc}. cj qn gi { k^f dgp eucm
qn{cp x²i t^gpfgrgv xqv ²tx²p{gu. co gn| c f>o ²r⁴u²pgm hqn^vu^r/
t>n ugo hrgfng|gw o gi 0 ÈPg jwp{l^c ng o ci {ct go dgt ³4³m^anqo tc c
o ci c u|go²v pg vgi {gp h^rtg vku vgu ngtgug^vd n u^ao qwgx ³4u|gi gv
cp²m^Àn jqi { o gi pg go r^{ng}l p²m c o ci {ct o xgn f²u u|gt²u²pgm
o c o²i dk qp{v^{cp} gtgf o²p{. fg dgeu^{Ar}gvu o wⁿl^at>n⁰ C| cfq/
o^ap{qntc c| À^ui²qm^anc^rdcp h^rtki {gm^gm u v⁴4d lgn o w^{vc}. jqi {
Mrgdgn^dgti w^fqo^ap{o^gpv gu^o2k n⁴4^Àn ng|fgw h^qttpk c n⁴x²rg/
o²p{0 C| c i qpf q^v co gn^v n^ru dd Mrgdgn^dgti ènw^{Ar}h³4³p{i g^gp/
xgl²uugn rt>d^an c rgi u²rgudd n⁴4³4^{ng}p p²ru|gt u^gpk o^at c j^adqtÀ
x²i²p. fg m^À4³4^gp c| ³4u|gqo r^u w³p jco ctqucp gm^gfk o ci cutc/
^kgn r^an⁴chw^ru⁰

C u³4^rw^rd^ru h^Àgvndgp gi {tg u|crqtqfpcm c| À^la u|gtxg²u
o wⁿl^atc xqpcvnu|». c| cne^k gi {gu t²u|ngvkv n⁴4^rt lgi {l gv^gm r^gx²n/
h^qicm c| x^ap{qm vt^xgm w^{vc}u^qm uvd0 G| gm l>t²u|g o^at c j^adqtÀ
w³pk k^f ntg gu^{km} co kn^qt c| gtgf o²p{gm p^{cr}t>n⁰p^{cr}te tgo²p{v^gl/
ugddgp d^qpcvnu|vc^m n⁰ O gi t^kvg r^r0 c U²ejgp{k Xc^{pf}gtdk^v I r^vf{u/
jg| ⁴v n^rt²u n⁴4³4^gp r^gx²n h^qicm c| x^ap{^av o^kpf ngw c f^lk^qo^aek^k
o x²u|gv tgo gm^g0 Gm q^{pf}lc c^ffkⁱk i { l^vug gtgf o²p{²v. ô gdd n

nkfgtĀn jqi { o²i J qncpfk dcp ku ulgt| gw r²p| v ô gm qpflc. jqi { cp ngtĀngm gn U²ejgp{k Kix^ap kecck o gnmqtc glgnpgm c hqpquf^awm o kdg ngtĀpg c nkc^auwn0 M²tk c it»hp v. jqi { o quv nkx²vngugp pg c ulgpxgf vguvpgm *gn| rgi vi {cpku jcfk²txcj^a| cv ulgtxglgw^a. jc/ pgo c uqtxcf» ulgmgp pgi p{Āvuqp ugi ų²i gv0 Wcn ettc ku. jqi { c n³4m²i gnj| c U²ejgp{k/wqnm^a *Vgrgnk Cileg. M²tqn{k J cppc+ ulkp/ v²p jqi|^a l^atwncn0 fnci^adcp hgmwcv o kpfgp rgi gv u²i gv o gi/ o qi| cv o kpfgp ugi ų²utg cmemo cu gt v0 M²u dd lqi| cn^a mcr ų²j cvc o gi. jqi { c o ci {ct wfqo^ap| ulgtxgk n³4 Ān c V³4v²pgm k V^atuwcv xqiv c| gm. co gn| c| 34ul gqo r²u n²dwc^vd»n hgr²dtgf v²u o wpn²j q| hqi qw0 Grguw²i Āpm o²n²rqp^va p. 3; 440 pqxgo dgt²dgp t^ao wcv jcvwv ettc. jqi { èo kpfgp ul^ao qwgx o ci {ct jk²qt²kmw rgi g vrg xcp fq²iqi| c²0 C xgv²u²t dgp xcp. c n³4{xgm n²ul Āpgm c| cmtwkv p{qo fc Ā go dgp. c nkc^auj q| ul Ām²i gur r c ų² dktv²wpndc²i 0

Wi {cpeucm c o ci c ul^ao^atc n²ul Āw lgi |{ gv²kdgp i qpf quep i { lk c m²Ā²4f k r²x²n²tcntc xqpcv²ul » cf cvqnev0 M²Ā²4p tqxcv²p {k< vppkxc²m c o ci {ct v³4v²pgk mwc^vu² tf gm² dgp0 Dgcf x^ap {qnev ulgtngul v. dk²qwa²i qnev crcn²ų². ulcd^an| cvqnev^a n²ų² 34ul g0 C| wsd/ dlcm n³4 Ān h²i {gm gv² tf go gn c O ci {ctqtul^ai Ānqt k v³4v²pgv²tg xqpcv²ul » flk r²o^a ek² lqt^auqm nkc^au^a pcm ulcd^an| cvc. co gn²gv o ci c ucl^avngl rgi ų²v r²0 M²qo qn| ulcno wpc² gl< dgeu²Ārv²tg x^arp²m d^at/ o gn²km r²x²n²tk ulcngo dgt²pgn² O ci c ų²vc o gi c n³4kgvngl. pci {qp t²ul r²gvu wcu²ų² u< V^al²ng/w» c d²euk o ci {ct v³4v²pgm k g²zr²gf ų²k» xg/gv k²u x²i lek ul^ao^atc0 O²i ettc ku i qpf lc xcp. jqi { c D²eudgp fq²i q| » v³4v²p²ul gm²ul qd^a kpcmdgd²Āqtq²ul^a u^atc n³4e²u³4p/d²Āqtvul gtgl | gp#

C o wpc²rtqi tco wn 34ul g^an²ų² uc gn²twlc. jqi {cp n²r| gn² gn Mrgdgn²dgti c v³4v²pgk mwc^vu² uqtuf³4v o gi Āj qf^au^a v0 O gi i | / f²ug xqiv jqi { c v²tucfcm²o n³4 3⁴{²pgm gi {km qnc c| cffki k mwc^vu² pcm dk²qp{qu gi {qf²cn²u^ai c0 V³4v²pgw²ų>ucl²pm vi {cpku h rgi c n³4²r/ nqtv nwc^vm u^a nci^adcp c ulcni³4 x²r²go²p{ c t²i kld nqtqm hgr²qni q/ |^a u^av v²kn²pvwg c rgi hqpqucdd hgr²cvpcn0 Mrgdgn²dgti gl| gn ul go/ dgp c| Ā. u v rgi Ācddn²qt k v³4v²pgro h dd rtqd²i²o^a kpc²m hgr²qni q/ |^a u^adcp r²vq²v pci {qdd rgi gv u²i gv0 Hqpqupc²m vctvq²v. jqi { hqt^au/ ulgt²p kuo gtl²Ām o gi r²fo c pgo | gv²k²i k n²tf²u v³4v²pgv²v0 G| gn²fk²Ān pci {qdd o²t²v²ndgp gt u²ų²gp k n²k^apv c i c| fcu^ai v³4v²pgk² tf gm/ f²u²0 O k²pvgi { jcmi cw²nci qu o gi^a mcr qf^au r²gvu²Āw c O ci {ct Vwf qo^a/ p{qu Cncf²o k²xcn co gn² ulgtkp² o wpc²o gi qu²v²u²cn c| Cncf²o k² vx^addtc ku pci |^adcp o gi o ctf c n³4²r nqt²p^an c V³4v²pgm k V^at/ uwv²xku qpvh rgi c| Ānqt xk²u^a r²v²xcnhqi rcm²ul kn0

Xku² cgo r²ngl j gv²Āpm t^a. jqi { c| klĀ Mrgdgn²dgti v³4v²pgk² tf gm²

n f²u²pgm lcx^av c pgo|gku²ik nřtf²u o Ænc nř⁴vg ng0 C o wpnřv
 cmqt cddeci|vc0 Vcřp c|²tv ku. o gtv c o gi hgn gn vcpw^ap{qm
 j k p|q|v m u v c| cp{ci hqpvu t²u|gk ô j ku gp Mrgdgnđgti c u|cdcf/
 u²i j cte ²u mgi |g|²u nqt^av ku hgn cncvc fqri q|pk ô gi {gn tg o²i l»n
 gñ^atv r^x2n³tenđcp r k j gpvgn0 C rtqi tco o nkrcmw^au^av c| cmqt
²t|gw j k p|qm ku hqto^an³n0 C| ³u|gqo n²u o gi p{kqvc c r^x2n³tc/
 nev< c j k p|qm r»u^apcm pgo xqiv o^at m³řp³ugdd cnc^an{c0 Gi {km
 xgl gv /i qpf qrcv c| xqiv j qi { wf qo^ap{qu ²txngv ngtgu²p Vtkcpq
 gngp0 G|v c e²nv u|qi^an³m c j qtx^av u|gtd. »v pgo|gku²ik nřtf²ut n
 o gi lgrgpv t²u|rgvu o wpnřn0 Gi { o^aukm pci {ct^ap{Å x^amcn|^au xqiv
 U²ej gp{k Kvx^ap kqfcm k j ci {c^vnřpcm nkcf^auc0 Hqto ckc i nřv
 uqtq|cv kpfw^agk 30 Oci {ctqtu^ai Æcddnqt k v⁴v²pgv²pgm hqt^auck
 40 Oci {ctqtu^ai v⁴řmqt k hqt^auck0 Vqx^addk pci { x^amcn|^au xqiv
 c Oci {ct V³v²pgw^aqo^ap{ M|křp{xg0 C rtqi tco o ngtgu v^a
 xkřřtg xcn^au^aiqu o wpcnř⁴ř⁴u²i cncmw co gn{pgm vci lck uqt^a/
 đcp qpqv^amc j cvm cu nř⁴gvngv0

Pgo u|pv o gi j cpi q|vcpk j qi { c| Æ j gn|gvdgp Oci {ct/
 qtu^ai v⁴v²pgv²lpcm gi²u|gp m³řp³ngi gu pgo|gk hgnf c nř⁴ l wqv0
 ěO gi o wcvpk pgo|gk o wwpndcp. pgo|gk i²pkw|wpndcp c| ³ř³m
²t^vngngv. gppgm t²x²p p³řgpk c| ³pdk cm cv. c| ³řo gi dgeu^ař uv.
 hki {gm g|vcpk c pgo|gk j k^antc. hlgul vcpk c pgo|gk gt²p{gngv.
 ucl^av²t^vnřpgmw^ac^vtc²dtgu|vpkc o ci {ct<g|c u|gpvhgnf cv0 #

C o wpcnř tqi tco o nkxkřř xgn ner euqrcvđcp Mrgdgnđgti hqn/
 vvc c|v c u|gtxg| o wpnřv co gn{pgm gm gtgf o²p{g o²i nř⁴qmc/
 v^au²i{k^anco vknřtu^ai c kf g²p c nřpvcpv^ar qn{k wf qo^ap{qu k^v/
 |gv hgnřnř²uc xqiv0 C d²euk r^x2n³tenđcp hgnř cm q|qw o²tj gvvgp
 hqpvu^ai Æ cp{ci hgmwcv^auc ²u hgnř qn|q^auc e²n^ad»n qnxgv^ařn u| m
 u²i gupgm nřv u|qw xcrcv k k^v|gv|ř²nřpgm hgnřnř²uc0 Cmqt o²i pgo
 řj gvgw^ancpf» lgnř wf qo^ap{qu k^v|gtg i qpf qpk0 Mrgdgnđgti
 c xqiv i^atfrcm^vđcp u|gt|gw p²j^ap{ u|qd^av. g|gngv xcrcj qi {cp dg/
 d^ařqtq|vvc u|qw j gn|g|vg c o ci {ct mvc»nev0 ř| kpfw^agn Æ^atc
 c nřu dd o gi u|gtxg|gw D²euk Oci {ct V³v²pgk k^v|gv²u Eqngi kwo
 J wpi ctlewo 0 Gi {km r^xgřř dgp. co gn{gv gddgp c| Æ {dgp c rncvc
 nevpc k rctcpeupnřpcm ř^av wcn ctc. j qi { o křgp pci { u|gtgrg xqiv
 Dgu²gp{gkpgm²u vguv t^vtuckpcm c o ci {ct u|gn²o k²řv o gi Alj qf^au^a/
 đcp0 ěFg Dgu²gp{gkpgm²u vguv t^vtuckpcm go řnřp nřk^an³u|gnř⁴v dgp/
 p^ařngv c| ku j qi { c o ci {ct nevpc²u v⁴v²pgv²» gi {ct^apv c j c|c/
 u|gtgvgv²t²u²d n o gt^ak c| gt v²u nřm²ugf²uv j kcv^au^apcm vřnřu^a/
 v²u²j g|0

Eucm x^a|nevpc. nři h dd xqp^auckđcp rt>d^anco c pci {ct^ap{Å

ul gtxgl 2u k^ap{¶» o wpi^av kuo gtvgpk co gn{ À 2ngv 3p3w gi {km
 rgi²tf go gugdd wfqo^ap{qu v²tuc^ai wpi^a0 C o k ul go rqpwpnd»n
 r g f k i c l c h p v q u . ô co k p v g l v M r g d g n d g t i o 2 n c w k n 3 4 ã n k u o a t
 v 3 d d g p j c p i u 3 n { q v m ô j q i { n 3 u d d k w f q o a p { r q r k k n e k v g x 2 n g p { /
 u 2 i 2 p g m 2 u g n i q p f q i u c l p c m e u f i a k g n u l 3 4 g l c m e r q o o c n d q p v e n q l v e m
 n i 0 G r p 3 4 n k o n 3 4 2 u g x c n d e p e n k e u p { ¶ g w o a u c . x c n u i q u g n n 3 r g i
 n 3 u d d k p c i { c t a p { Æ w f q o a p { r q r k k n e k v g x 2 n g p { u 2 i 2 p g n 0 G i { k m o 2 n
 v c w l c c d k d i c k o w u 3 t o c i q v g o r g i g k c o g n { n 3 u d d j c v c m o c j c l v 3 /
 u q n e v j q l q w 0 U c l k u c n 3 u d d k M r g d g n d g t i t g g o n 3 n g l v g v j q i { c r g i /
 p g j g l g d d x k u l q p { q m n 3 4 3 4 w v 3 p g o 2 p { g u i { q t u c i i c n d k v p u i i c n
 u l k p v g d q u l q n i p { q u Æ i { g u u 2 i i g n g n v t g o v g w o l p f c l v . c o k c o w p /
 n i j q l u l Æ u 2 i g u x q n 0 U c m e m c p { ¶ i v e t t c . j q i { h g n d e u Æ i j g v g v p
 v e r c u l v e r v q n e v i { l u 3 p < n 3 w c n 3 4 x g v g p n 3 4 g n d n c o c i { c t w f q /
 o a p { q u a i p c m u l k p v g r k l u g j g v g v p Æ n p { q o c u l w j g n l g v 3 v f g n 3 w c
 c l v k u o k t g n 3 r g u c n i t c r g i n 3 u 2 i d g g l v d d n 3 4 Æ o 2 p { g m n 3 4 3 4 w k u c
 d k c r q o n g n 2 u 2 u c t g a r k u e 2 m k v | 2 u 0 P c i { q d d j c w n 3 4 t j g n 2 p o l p f /
 g l v o c l f n k v p g p 2 t v 2 n g u f i 0

G l | g n p c i { l a d c p d g k u h g l g v 3 m c v i c d d 2 t v g r o d g p x g w v e p w n /
 2 x g m t 3 k l f t g h q i q w k u o g t v g 2 u 2 0 C v t i { c n v k f u l c n d c p M r g d g n d g t i
 v k l x k u g n . o c l f d ¶ . n 3 u d d o a t a m c o v k n i t 0 F g u q j c u g o x q n v k u l v
 x k u g n c d d c p c l 2 t v g r o d g p . j q i { c j c v e r q o p c m x c m g u l n 3 4 g n g w x q p c 0
 M 3 u d d g i { k m l d c t a v c . D g e n g t r q t q u l o l p k u l v t . e g w » r e k h q t o a w o Æ
 a m c o l 3 t h k A p c m i l g n g o g l v g < c v k l x k u g n M r g d g n d g t i . o a t c n k u v k l v
 x k u g n k u . a m c o l 3 t h k A k h q t o a w o Æ d Æ t q n t e c x q n 0 G i 2 u l ¶ c v e r q p
 x g l g v u l g t g r j g l l w q w u t j g n 2 p a v 3 n g v g c r g i p c i { q d d o c i { c t
 u q t u r t q d i r o a n e v 0 O a t r a n { c h w a u c n g l f g v 2 p c l | c n i { 3 4 3 4 v g o c i a v .
 j q i { c p w f p c c r g i p c i { q d d d c l q n p u g i ¶ g p l 0 C u l g m g o g t g l g . o 2 t j g /
 v g v g p u l q t i c m c . p c i { w f a u c u h r g i c l c d g n u v | . c o k h q n { v p 2 i g w
 d g p p g . u l k p v g a v 3 4 v g c n q t n v q n e v < c h e v n M r g d g n d g t i o a t q w k u
 c m q v p k o g t v 2 u w f q w c j q n o a u q m v i p e u m c f o l p k u l v a n e m x q p c 0
 J c o w p n i u a i a p x 2 i k i v n k p v 3 p m d a o w k c a m e r ¶ j c l w m o g i . j q i {
 u l k p v g c n g l f g w n c n k r p e x g p u 2 x g n v n h q i x c h d d x q p a u c k d c p n i d q p /
 v e n q l k m c m g d g n d g t i k m w n A l i 3 4 p { . u v o a t c p g a p c e k p c r k o w u k u 0
 G r i q p f q i u c k d p g r g l p v g u q m x q n v o 2 i c l 3 4 u l v 3 4 u o g i u g l v u = n 3 u d d
 o l p f k i w f e v q u c d d e p 2 t | k c o c i c k i c l a v 0 G r g l p v g h A g v k d g p u l k p v g
 o c i a v i i { k o g i 0 G r i 3 p o c l f c l k f . c o k n q t i q p f q r e c k n i c l | c p c m c
 h A g v g n d n u n k h q t o a n a m v e r c u l v e r v q m » n k u c n i v o c u l w c . c p c i {
 3 4 u l g q o n 3 u w a p c h e r g o g m g f 2 u g i { k m r g i h q p v q u e d d x g l 2 t u l » r o a v . c l
 c m q t k o c i { c t n 3 v t c p e u q m g i { k n 3 0 C r e r x g v i q p f q r e c o a t o g i /
 g n l r g i j » f ¶ j ¶ x g m g v u l g t g l 0 C o g i x c n u w i u u f i n i a p o a t n i k c l | q n » f /

pcm c| gru nwcw/|p^v|gv^m 3/4| v³/p^f¶cm wf>u o wpnēu|gtxg|gv^m
gi {gn tg o²i c ngl fgv u|gt²p{u²i²xgr⁰ Fg o^at dgpp[~]Am xcp cpcm c
dk qp{qu dkd^rckco wu^ato ci pemgd¶j cxcvcp gtglg⁰

3; 39 hqn{co^ap Vku|c c x^arcu|w|lqi k n²tf²u o kcw rgo qpfqw<
xgrg gi {Aw v³xq|qw Mrgdgndgti ku⁰ M⁴2^{ng}k jgn|g²tg xqpcvnu| »rci
lgngō|. jqi { d²euk j¶gm c^rrl^ap uqncp j qo q tgi kw/n²pv x^at^vm
xku|c⁰ C| rgw xqpc c u|gtgr g. jqi { Gu|vtj^a|| O »tle x^amcmu|^au^a/
pcm o gi j k[~]Aw^uuc gug^vp c v²ti {c^rfuqnev hqn{vcuuc. Qn{cpqm ku cncf/
vcm c^rkm dgppg x²n²m r²vpk Vku c n²4 xgvrgp w>f¹ v⁰ C| gm c nqo dk/
p^aek>m c^rrxcvcpqncm dk qp{wncn⁰ Mrgdgndgti c hq^ttcfc^m cm dg/
hglg|v²ki c rqrkknck²ngvdgp pgo l^aw|qw lgrgpv ugdd u|gtgr gv. Igi {/
|gvk c|qpdc^p gr²tw¹a^m jqi { c o ci {ct r²v²tqdr⁰a^{nev} vx^addtc ku c
r²i²r²pngdd hki {grgo o gn n¶i²tv⁰ Gi {km hgrgi ||²ug r¹o^at c dwnctguk
d²ng w³p ngrgvng|gw< gddgp 3/4u|ghqi r²rlc c jgn|gvj g| o²tv²p c
tqo^ap²u f²nu| r²x r tqdr⁰a^t »nxcn» gni qpf q^ruck⁰

C tqo^ap n²tf²ut n c| c p²|gv². jqi { c|v o quv ct^ap{rci n²pp{
rgu| o gi q^rfc^pk rgi c^rdd ku n²pp{gdd. o kv xcmj c⁰ C dwnctguk d²ng.
d^ato gpp{ktg o²tu²ngw ku dk qp{qu r²gv u²i gm u^ao^atc p{kv wcv⁰
Eucm c| h¹l Mrgdgndgti p²gm c| u|kv²g 89/gu o gi i | f²u rqrkknw/
pcm jqi { Cw|v²lc o²i glgn²tv c eugn²n{ gn p{3/4²tv ku kki {ngf km
t^apn⁰ Ok cpcn²gl²p gn tv[~]Am jqi { Cw|v²lc rghqi r²rlc Fcm^aek^v.
co gn|j g| w<lf qn²r r gp ugo ok n²4g pgo xqn⁰ U j c c j^adqt[~]À w³p
r¹o c fgt²m vtqrkcm vgt[~]Angv pci {qddqf p²m ok pppgm eucm 3/4[~]À²pm ô
k²i {u²i gu [~]À²ndg ugo lwpc#

M[~]À²p³4gp 3/4[~]À² c d²ngu|gt| f²u co c rqp^va²pcm co gn| u|gtkv²
Tqo^apk pgo cncf^an{q| c o gi o ci {ct u^ato c|^au[~]À^a nco rqi^atc⁰pcm
nk^apf q^ru²u² Mrgdgndgti c|qpcn c o q^rfxck eu²pi »ntc i qpf qn²u
u[~]À²i gv k jqi { c r²gv u²i gv o gp v n gn dd vwtg x^an^uw⁰ Fg r²g n²m
xppk c t²i gddk u|gtpeu²vgr[~]À² ukn²g[~]À² eu²pi »vgr²¶²ugm vcpwn²i c²k⁰
C h²p²vcudd grkngv c n²4gv²pf gr^at^au r²p{gi²v c|qpcn r²rlc q²tc
ku xgv⁰ C|v ku ngf xgl p²m r²vlc. jqi { c d²ngn²4²u dk qu¶q²wc c dwnē/
tguk o ci {ct vcpk^v|gv^m |cxctw²rp o n²4²u²v⁰ C| qwcpk o ci {ct
kunq^rm w²i c^pku pgo eucm r wu|v³p nwnw^arku u|go rqp^vd>n h²p²vcum
j cpgo tqo^apk² i c|fcu²i k v²thqi r²rlc uwp^m vgnlv²vg²dgp ku⁰ T^ao wcv.
ok lgrgpv²pgm r¹o g u|go rqp^vd>n c p²o gv²i p²gm c xk²i qp u|gtv²u|>v
p²o gv i c|fcu²i k nq²pk²n⁰ ëC Tqo^apk²dcp hgpp^am» p²r gu o ci {ct
nq²pk²nev ok ku hgrj cu|p^arj cv>»m c u^atp{ckv dqp²q²cv» o ci {ct
m[~]À²ngtgun²g²ngō²tf gn²dgp u c| gj j g| u|[~]À²i gu go dgtgngv gnu uqt/
dcp c tqo^apk² o ci {ctu²i d>n x^arcu|v²cv^apm nk rgtu|g vcp¶/p²gxgn/
o wpnc ugi ¶u²i²xgr¹ U[~]À²i gv k jqi { c| qwcpk grgo k kunq^rnev o gp/

v n gn dd gi²u ʃuʃm nk rqi^atk²u hnu ngtgungf grō k kunqf mēn co g/ n(gm c o ci {ct x^amrcvqnpem o gi hrgn p{grxw^fa^uÀ²u c jgn|gvgv vʃnʔ rvgvgp kuo gt cmcm c|qwcnevpgxgnj gvp²pgn0

Māʔp hi {gm gv u|gpvg c nʔ4 rngf²ur qrkkn¹pcn0 f ncn¹dcp lgi {/ |gvgkpm ki gp lgrgp²ngp{ t²u|g hqi rcmu|km c xcu^{Av} 2u jcl»|^au nʔtf²/ ugkxgr0 C| kf gx^ai» cf cvqnev hqn|vq p i{ lʔ4wgo Xg|gv /i qpf qrcv< c Hngvg/vgpi gt hgr^ʔ k^ap{w» hqi cm cv O ci {ctqtu^ai qp^av ngn xg|gvpk C o ci {ct xcuwcnēv o kpf gp n^ʔp{gi gu rqpvp ʔ4u|g cnetlc nʔ4pk c tqo^ap xqpcrmmr0

Cddcp pgo pci {qp dʃ km jqi { c d²ngu|gt| f²upgm c| ktgf gpc rgu|gtgr^ʔtg xqpcwq|» o gi^amcr qf^auck c i{cniqtrvdc p vʃn^ʔi qucp uqnev²tlpgn0 Kv pci {qp uqm ngj gv c nkd^Àx>0 ©fx^ʔupgm vctvp^a. jc c o ci {ct tgp^f tu²i ʔ4u|go nʔ4j gvp²m c dwnctguk nʔ4gu²i i gr0 Pci {qp uclp^adc. u v u²i {gprvgupgm vctvc c|v c nʔ4 ʔp{v. lʃuww^ʔi qv. 2²tf gmgrpu²i gv. co gm(gn c nʔ4 x²rgo²p{ gl gngv c nʔtf²ugngv p²|k0 Gddgp gi {²dnʔ pvc x^arcu w|qi kēpctm| kn^ʔ n^ʔvc h d p^ʔ4upgn0

Uqmēn pci {qdd ci i qfcm cmmēn p²| Mrgdgnudgti c f²nu|n^ʔx rtdq/ rʔo c hgr^ʔ0 Vli { 2²t|k jqi { gl c nʔtf²u o quv vʔ4d xgu|gf grō gv tglv o ci^a/ dcp. o kpv 3: 6: »c d^ato knqt0 C uqnev ucp{cti cvqw u|rcx>pkck o ci {ct/ u^ʔi tc i qpfqn c Lwk^ʔp/ gi {gu^ʔngv x²f grō gl gwlgk²g0 | rgnʔtf²upgm vctvc. jqi { u|cdf wwpm ngi {gp j q||^alwn0 G|kf dgp wi {cpku vxtgm i qo qn{qi vcm c o qpctej^ʔp dgn^ʔ hgr nʃcpf» f²nu|n^ʔx nʔ4 ʔu^ʔit n0 ēDqt|cu| w k>pk^ʔlc rppg c uqtupcm jc c i{ |grō gu O ci {ctqtu^ai qv »t^ʔuk^a r^ʔq| cvkpcm lwcm^avn gi { nkrēmw» f²nu|n^ʔx^amco lʔn^ʔgr^ʔnp² gi {gvgp vgi grctv^awr^ʔ Oclf j q||^ah|k c o gi tgp^fʃv o qpf cvq< ēC o ci {ct nēvpc gi { dqn{qi cdd²u j vcm cuedd O ci {ctqtu^ai²tv x²t|gw²u grugw rgn^ʔdgp c i{ |grō hrgo gn²t|²u²xgn0 G|gm c jcnq/ vcm dqt|cm cu vgo tgj^ʔx^auv hqi pcm vctvpk jc c o ci {ct rqrknc c x^arcu w|qi t^ʔ4 gu|o²l²v n d²pww ci i{cn r^atxku^an{qm hgtv l²dg o g/ t^ʔArk. o²i j c|^apmvgt^ʔrk²r u²i²vugo w^fp^a hpppctvcpk0

C M^ʔtn{ k|htctfcmo crw gu o gi tgp^fʃv²m²p{g xqiv Vku|c Kw^ap o gi i{knqf uc0 N^ʔwm o kn{gp pci {tc dgeu^ʔng Vku|c Mrgdgn/ dgti nʔrgu²i gk0 C pci {tcdgeu^ʔr²u²u u|gtvgv nʔ4eup^ʔ4u xqnc Mrg/ dgnudgti o kpf x²i ki Vku^av vgnpvgw gi {kn ngi pci {qdd l>vx l²pgm²u gi {dgp rqrkncck o guvt²pgn0 G| pgo cpp{kv lgrgpv o kpv c o kpf ki gi {g²tvvgm xqpc0 Mrgdgnudgti r n0 gi {^ancn^ʔp pgo qu|vqc Vku|c p²|gvgk c lʔ4f nʔtf²ut n xci { c pgo|gku²i k rqrknc i{cniqtrvck ng|g/ rgu²t n0 Fg o gi dgeu^ʔng dppg c| ki c| o ci {ctv c vcr ki lgrgo gu. v^ʔp/ vqt^ʔij cvwcp lʔthk0 Vcn^ʔp gr^ʔi rgu| cpp{kv o qpf cpqo o²i. jqi { gi {kn guqddk dgu²f²dgp. co gm(gv Vku|c f gdtgegpk u|qdt^apcm rgrgr ng|²ugnqt

vctvq w U²ej gp {kj gl jcuqprfj qw < ëEuqf^a r wqu kpwfj e k xcn o kpf /
ngwgp o gi uglw m c u^{3/4} v l^{3/4} v m¹ f gpgm c nqo qt x² i | gv gn gp ² u
co knqt c o ci { ct denuqtu gt ugddpgm dk qp { w n o kp v m ² r g v¹ m x c /
i kmw x² i gv ² t 0 Vku c j c r¹ n m qt Mrgdgn dgti co c n g x² u |^a o Æ t² i k
l > d c^a v n^{3/4} v² vctvq l qw cnkm o gtv m c j c m w ² u ^{3/4} xgi { g o g n g w o c /
t c f p l 0 C | ^{3/4} xgi { n f x^a p u^a i^a t c Mrgdgn dgti gi { k n g x q n v c | q n p c m c n k m
c n k f ^{3/4} p v⁴ w v^{3/4} i { g v n q r q t u > d c j g n { g l v² n 0 Vku c go r² n² v o k p f x² i k i
n gi { g r g w n² u j^a i^a x c n^a r q n c 0

C | qm > dgtk hqtfc m q t > n n² u dd ku v^{3/4} d d ¶ dgp Kguw l w c p p { k r v
n q | q w 0 ë 2 3 { c p hqtfc m^a t q m l w q w c m p^a n w p m g n v² t d g. c n k m p g m p g o
x q n v o g i c n g m g t g l Æ m c v g j w u² i Æ m² u c | g p g t i k l w m c p c i { g u g o² p { g /
n g v j c n g m g t u | c n q u c p k u o g i x c n u¹ ¶ hqtfc m q o x g l g v² t g 0 C l >
j c | c h p c m n² u² i d g g l v x q n v r² v p k o k n² r r g p x g t i f k m c | q t u^a i v g j v
u² i v g r p^a hqtfc m^a t q m n g |² p² u j q i { c p | Æ m g n c p c i { i c t t e n o g i /
k p f ¶ j q w o q | i c m q o 0 G p p g m x q n v n^{3/4} i^{3/4} p j g v c n q o o w p k o w u. c n q o /
o w p k o w u p c m c | k f g i g p o g i u^a n^a u 0

M¹ u d d k x k u | c g o r² n g |² u g k d g p o g i g o n f k j q i { o^a t 3; 3: 0 p q x g o /
d g t j c x^a d c p v^{3/4} d g p h g m g t g u² m D g v j r g p K u x^a p v c | | c n c n² t² u g n
^a m q p g i { v k u | v² p p g o | g k c n r q p r² v g u Æ n r q i k k n e k u | g t x g | n g f² u
² i² t g 0 3; 3; g n g |² p c | q t u^a i o^a t l² r i k i d q u g x k | o w u d c p² n < M¹ t q n | k v
c r t q r v² t f k m c v² t c u^a n^a f u e u l p^a n k u | k p w v g i g u g p n^{3/4} Æ k g w² n 0 D g v j r g p
K u x^a p v² p { n g i o g i r t > d^a n c. j q i { c u | q t q p i c v q w r q n^a t u^a i k^a p { ¶
v² u^a v^a x g i { g 0 V^{3/4} d g m g n g i { Æ w ô n^{3/4} v¹ m x q n v M r g d g n d g t i k u ô
À l r^a t v q v n f² t g n c n f¹ c p k < c P g o | g k G i { g u Æ² u e¹ p r q n^a t k r^a t v q 0
C r^a t v c r m w Æ Æ² u. c o g n { g p D g v j r g p r t q i t e o d g u |² f² v g m q p f v c.
3; 3; 0 h g d t w² t 3: 0^a t c g u g v 0 O^a t c | ^{3/4} u | g l^{3/4} k g v g r p x c n > o g i l g r p² u
² r g x g u |² n | v l g r p v g w 0 W² p c j c o c t q u c p o k p f g p j c u q p n > r t > d^a m u |^a u v
g n^{3/4} v^{3/4} c r t q r v² t f k m c v² t c 0 C r q n^a t u^a i x g | g v g o d g t g k x c i { |^a t
c i^a n g t Æ n g m x c i { g m g p n Æ n g n 0 M r g d g n d g t i k v j q p t g l v |^{3/4} v g n 0
O c i c g o n f k j q i { r² p | g u g o x q n v c m Æ² i f t g w c |^a u j q | 0 C r t q r v² t /
f k m c v² t c c r w < ² n # I { w c n^{3/4} p {² n² p. C m^a u { F g p k u g v c p {^a i^a p
t g l v |^{3/4} v g n o k p v p² o g v p g x g n 0 O c i c o q p f v c. j q i { g r e x g p n q o /
o w p k u² v p g o k u r² v q w 0

C hqtfc m c m w³ p Æ d > n o g i k p f w > r q i k k n e k ² r g v d g p M r g d g n /
d g t i p g o v r f n c o g i t^{3/4} v^{3/4} p c j g n {² v 0 C | g u p g o | g i { r² u k x^a r u | /
v² u q p E u g t p q e j l² p q u n g | f g o² p { g |² u² t g. G u | v g t j^a | { O k m > u j g t e g i
v² o q i c v^a u^a x c n U q r t q p n² r x k u g n l g r g w 0 C x^a r u | v² u q n d > n n² v p c i { /
r^a t v n g t Æ v n k o c l f p g o g i { g p n u^a o d c p. u q m n^{3/4} v^{3/4} i r t q i t e o o /
r q p w c n f g c p p^a n v^{3/4} d d g n² t u | g o² n | k v^{3/4} g n x² u u g n < c n g t g u l v² p { /
² u c n k u | c | f c r^a t v 0 J c o c t q u c p d g d k q p { w x. j q i { c p g o | g i { r² u

34u|gv²vrg o gngw p{wi qf v nqto^ap{|^au pgo rgj gw²i gu0 Mrgdgnudgti
 v̄4dgmgn gi {Aw jco ctqucp fku|kf^an= gl c o kpf nfv r^atd>n cncmw
 guqrqt v gi {2dn̄pv v vgnkpvvg xgl²t²pgn0 C fku|kfgugm pci {qdd/
 t²u|v jclxpf>m xqncm gi {guApk c nku|c|fcr^atwcr0 Xcn>dcp n̄u dd
 glgp c| cncrqp l³4w r̄vtg c| gi {u²i gu r^atv. co gn{gv lqi en vgnkp
 jgvApm Dgvj r̄p Kw^ap gnu pci { rqrksknek o x²pgn0 C vgv cñ jql^au/
 dcp Mrgdgnudgti pgm ku pci { t²u|g xqn0 G| c r^atvrcnwi^au vgv rgj gv x²
 c| ^ampf>dd lgn̄gi nqto^ap{|^auv. c lqi tgpj jgn{tg^an̄i^av. c| Æl^a/
 2r^auv. u>xcn c| cpp{k v i Ap{qnē n̄pu|qrk^aek>v̄. co gn{ o²i ku c
 n̄4r qpvk jcv̄nqo o gi gt u³4²v. c h̄ppo ctcf^auv. c| ^amco k 2rgv
 rgj gv u²i²v. c vlcppqk o qf wu xkxgpf k v lgn̄pvvgw0 Gw n ngf xg
 j cñ r̄ki Mrgdgnudgti gddgp c r^atwgtgdgp o ctcf v0

Co kn̄gp uqm 3430 gv jql qw pgnk mwv̄rqrksknek o n̄4²ug.
 co gn{ o quv o^at jco ctqucp pci {qdd ct^ap{qndcp h̄gn fkm nk qñcp
 ngx²u 3430 g rgj gvgw c pcrk rqrkskñ dcp0 Mrgdgnudgti c ucl^av v̄4du 34
 o gi ku²v̄v xcnqo^auc u|gtlv̄p Æ p[^] ãn̄4²rwcw̄ rqrksknu xqnd lU xcp/
 pcm n̄qtu|cñqm co gn{gm c n̄4²rwcv xci { gi {^an̄cñ p pgo. xci {
 eucm pgj glgp v tkn0 Co kn̄qt pgo uqm̄n c mwv̄v̄tec ^aw²v̄v w̄p
 gi {km c Pgo|gk U|^apj^a o uqt^axcn n̄rcuqncv̄u kv̄|ngf²u²v n̄v
 qñcit>n ku jgn{v̄rgp^agv²m p{krcv̄u|c v̄dcp n̄h̄lv̄vgw. jqi { c
 èrqrkskw o qf gt²gi Æ^av. c n̄4²rwcv l^atv u glv h̄qilc o kpf x²i ki
 l^atpk co q̄ gi {^an̄cñ p rqrkskñ v euk^arñ G|v c| wcv c n̄4 o qf^au
 ctcp{pcm p̄xglk c xcn>u^adcp c|qpdcv v̄xkku0 ãM̄v̄p³ugp ok/
 p^an̄pm tgpfn̄k Æ^an̄ j^ar̄u u|gtgr c|. jc xcn̄k u²m u²i gu h̄ñqi^auqnev
 pci { jcv̄tq|quw^ai en u v ciitgu|kx³u en n̄r xkugr00 C o²t²mgv.
 rqrkskñ lc^atv c| gi {2ppgm fg jcu p^an c| qtu^ai pcn00 N^awm
 jqi { rqrksknek r^an^alc ngf fg²p i {cp Æ^a xqnv c| qvj qf qz r̄kdt^aruqm
 gn w< o kpf ki xcn̄o k n̄pi tgi cpkv̄ v̄4 l²pu|ci qv u|ko cv̄ni cv̄m
 tclvc0 M̄u dd. o kpv lcx^aij cv̄v̄cp r̄kdt^aru. c h̄lx²f m i {cp Æ^av
 n̄ngvgw h̄ñ0 I 30 d³u I {w̄c rñ0 gi {^an̄cñ p pgo v̄kn̄qnc. jqi { pgo
 u|gtvk Mrgdgnudgti pgm èug jkf gi. ug o gr̄i. ug j Æ. ug jcn ug | Æ o ctc.
 ug n̄i pkn̄wck Æ i {p̄xgl gw n̄4²r Æ^ai / rqrkskñ l^av0 Fg gn n̄ngv̄ xkugp̄k
 ngo²p{gdd. ki c| u^ai v̄v̄cp v̄o cf^auqnev ku0 O gi i { | f²u²pgm gtgl²v
 o w̄v̄c. jqi { o kpf gp twi cñ cuw^ai c gngp²tg ugo xqnv jclxpf> ujc
 c n̄4²rwcv gj̄ci {pk0 M̄u dd ku go ngi gk jqi { c| gnu. fg o²i c
 o^auqf km pgo|gi { r̄u ku o kn̄gp u|qo qt Æ^a r̄x^ap{v p{ Æ^av̄w. o gpp{k
 u|go²n̄gungf²u. xkj ct. o gff h̄gn̄>n̄r̄u jcp̄i|qw gn dgppg0 Xcn>dcp.
 jc c| cm̄qt̄k pcr̄v̄²u ktqo^ap{qnev qrcuwm c uqm o gpv̄m k Æ i {
 und0 n̄4³4w eucm kw/qw Æ^au n̄n̄ xcn̄o k n̄qo qñ cdd r̄tqdr̄o c0 Uqm
 u|gp̄xgf²n̄v |cm̄v̄w h̄gn c ngi kko k o wu n̄tf²ug ku0 Mrgdgnudgti o²i

xcrf u/ 2u nř4 qmcv uAi {k a mco vknft nqt a dcp grp {gtvg c xcn u i qu
 dgru vknqu wpa euqu a i qv u a ncrf dcp 2 rkg l vg c | wcmuf » j a | ngi { 2 x0
 G | gp c | crr qp c u l 2 n u i gu nri kko km m tqul p 2 xgp xgw m pgnk
 j qi { ô c | cmqt k r qrk k nek v gto k qn i k c u | g t k p v ô ku c n k a n f /
 nřtf 2 uv ênkner euq n m nř4 2 uqtcm q | qw Mrgdgnudgti pgi 2 | jgn | gvdgp
 xqn0 Grluo gtv. j qi { eucif l i a pcm vci lck v k gpi { i gpgt a e k p ngt gu l v n
 o k p v n e w p a m 2 u j kxcvcpqnqm c | wcmuf » j a | cv u | qri a m n0 Fg pgo
 wf qw o a uv vppk o k p v o gi i { | f 2 ug u | g t k p v j c a l c 2 tf gnř pgm
 o gi hrgn gp a nř u hqi rcp k0 M A r i p 3 / 4 g p r g u A v q w c v c n k a n f o a u q f k m
 j c | c v 2 t 2 ug < pci { n e w k u v l f p c m 2 t g l v g l v o a t U q r t p d c p . c j q n
 g l c m e n r o o c n 2 r r g p v t w | n u f q w 0

C | gu Dgř n p / n q t o a p { 3 ; 4 3 0 a r t k k u 3 7 0 2 p v g u | g u n A 0 G d d g p
 Mrgdgnudgti o 2 i pgo hqi r e w j g n g v 0 C o a u q f k m D g ř n p / n q t o a p {
 w i { c p g l g p 2 x f g e g o d g t 7 0 2 p c r e m w n o g i 0 G d d g p M r g d g n u d g t i c d g n /
 A i { o k p k u | v g t k v 3 t e a v x a m e n c 0 N g i h d d h g r f c v c x q n v c | A i x a r u l w /
 l q i k t g p f g r g v o g i c m u q v u c 2 u g p p g m c r r i a p c p g o | g v i { r f u k x a r u l /
 v u q m x g l g v 2 u g 0 O q u v l » j c u l p a v x g w g c | q n p c m c v c p w a a p { q n p c m
 2 u l g i { | g v m p g m c o g n g m k e c v k n ř 4 3 / 4 w c x a r u l w l q i n ř t f 2 u 2 x g n n e r /
 e u q r e d c p k f m h q n { c o a p 3 / 4 u l g i { n g n 0 O k p k u | v g t u 2 i g g i { 2 d n ř p v x l j c t q u
 x q n u p g o u q m 3 / 4 3 0 g v e j g v g w d g p p g 0 G t t g c | k f t g g u g w c * r g i k k o k a r c
 x g l 2 t g m h q i u i c . c | c m u t k 2 x g m g i { k m n g i u A n { q u c d d d g r q r k k n e k
 r t q d r i o a l e 0 W i { c p e u c m d g n A i { o k p k u | v g t u 2 i g c r e w v 4 4 v 2 p v c | G t l u 2 d g v
 x a t q u k M A d g p c | g o r f n g l g v u d q o d c o g t 2 p { n g v 0 C | c | g t 2 n f 2 u j c v /
 t q l q w u i . c o g m { g n c v g w g u g n g v p { q o q l v c w . u q m A c d d g n g p u i g v
 u l g t l g w p g n k c u l 2 n u l q d d q r f e r k n ř 4 3 / 4 n d p 0 H g ř j c v m c l a u a t e j a | /
 m w c v u v v t v q w e m c | | d t g f O c i { c t q m G i { g u A r g v 2 p g m j g n { k u 2 i g k d g p .
 c o k o k w j g x g u p v o c f v m u v h e r t c i c u l q n u p u 2 t v n k h g l g 2 u g m g n
 k n g w 2 n 0 C p { k r v n u l c v c o g n g v c | A i { d g p c | 2 d t g f m n k c f v e m g r /
 p g x g l k v | u k f » d e t a v p c m j 2 v h g ř n e e u k p i c w r q r k k n e k u v 2 d g t p g m c
 r r e n i v r g f k i j g t o c h t q f k c r q r k k n w u p c n 0 M r g d g n u d g t i p g o j c v m k
 g u l n ř 4 3 / 4 m g n u l g t l g w o c i a p c m g r i v 2 v g r w j c p g o c d f l » u i A i a p 0
 C | e u c m v g t o 2 u l g v u . j q i { c o a u k n q r f e r p g t 2 n f 2 v n g x 2 u p g m c r i n ř n 0

Pgo euqf c. j qi { o k g n v c m e r o c p { f l v t a . u l f k g u g p j c i { v c q w
 j g n f 2 v u 3 / 4 3 0 o g n x a m e n c c n ř 4 q m c v u A i { k v 3 t e a v 0 D k c m c u c k p c m
 g r t w n c . v 4 d d u l 3 / 4 k u o 2 v g i g v g . j q i { c d g n A i { o k p k u | v g t u 2 i g v c |
 c m u t k k f n d g p r w u l v p n ř 4 g r g u u 2 i d n x a m e n c u c r i x a t v c . j q i {
 d k q p { q u g n | g v u v g t x g i g v 2 u g n p g m k u o g i h r g n g p g l v c r q r k k n e k
 x l j c t q n p c m u q m e n k p n i d d n k g w t j g n g v h g r a n j c u u c c | g n | g v u
 o w p n i u a i a p c m 2 u j c l m o c k p c m a n e r f d e p g i 2 u l g i { 2 p k u 2 i 2 p g m 2 u
 e 2 m k v | 2 u g l p g m l q d d c p o g i h r g n n ř 4 q m c v u A i { k v 3 t e a x c i 0 C e u g t g

3; 440 lÀpkwu 38/a p v4v2pv0 Mrgdgnudgti ¾Ám. jqi { a vxg jwg c| gn^a txwv o ci {ct mwxÀtc i qpf q|^a u⁰ C xcnf u² u kúnqr xqncm gn^a i qpf q|^a u⁰ dcp c pgo |gk n¾42t|² u hqto^a f u⁰ pcm ngi hqpvcudd gu/ n¾4 gk c mwxÀtr ríkknf vgnkpvwg c| ¾Áu| r ríkkn d¾æu l² pgn0

C x^a p fqt. nlp gm² rnvÁv g f fki nff² t p k r t>d^a nwm gr² tng| gw. fg pgo c x² i e² t j q|. jcp go c j j q| c ngi hqpvcudd o w pncj gn{ j g|. co gn{ gv u^a o^a t c c I qpf xkug² u ct^a p {k² i t¾k k² rvg hq{ co^a p nk/ lgr¾40 C| k^a ki xgl gv Áv vgr xqrv o w p n² xcn l² tcf q|^a ucn w p w² u/ ucn gtgf o² p {g mgn fg u| gi² n| g| xg xqrv ô nÁi¾p¾4gp c| qtu^a i ¾Áu| g/ qo n² uc n¾4gvng| v² d p ô uqm o gi j kÁwv v¾4gm² ugn ku0 P² j^a p { hqpvcudd cmq² v² v c| ¾Áu| ggo n² u xk ctc ¾Áu| gv¾4v0 C Lw² p/ gi {guÁgv j gtqknu gt hgl v² u g l p gm c p p {k gtgf o² p {g xgl g p f dg o gp0 C p {g k/ j c² tcnk» cncr l^a dcp x² xg gn ugo ngl f j g v g w 0 Fg ukngt n² u ukngt vngp² i d n ¾Áu| gi { l¾4w nkpeun² pv o gi o c tcf v co kv Mrgdgn/ dgti o w p n² l^a d>n w p w v r cu| vcn0 U o k p f g v l t k u g p. euÁi i g f² u² u k p c f q|^a u p² mÁn^a n f f q w c p c i { q p ku o gi x^a n q| q w x k u| q p { q m n¾4 ¾4w nk v | j g v Á l e² r m u| q n^a n² d c 0

O gi t g p f v c| c xcmq o^a u. co gn{ dgp pgo uqnmn n² u dd c n¾4 qmcv² uÁi {k v² tec^a w² vgrnqt v⁰ o c f v² t|² u g k v² u i q p f q r v c k v k u o g t v k < O knqt² p c mwxw u| v² t e^a v^a w^a n c n c o . c| v i q p f q n c o < Go dgt v g j w u| q p ¾4² x g v v¾4n¾4v² n n w w^a r k u Ái { g m k p v² u² x g n v² 2 x g c p p c m j q i { c f o k p k u| v c v k^a m c o k n n t r w² n c m w w u| o k p k u| v² t k w o d c p. c| Ái { n¾4 p g m o k p f g p u c t n² v. o k p f g p | g i² v | w i^a v k u o g t g f. v g^a v j q i { p g x^a n c j c v^a f g| v c h g r c f c v q v Á U o k n q t q f c^a m j w c o. o k p v m w w u| / o k p k u| v g t. o k n q t n² w c o c o c i { c t m w x À t c² r Á g v² p c t g r g f² u g n g v. n² w c o c x g u| g f g n o g v. j q i { p g o | g k n e v c u| v t > l² p m w^a p c| c o . co gn{ p g m c n r n¾4 g k v D g u g p { g k v g v g r g. co gn{ g p M c| k p e| {² u v¾4 d k p c i { l c k p m v q x^a d d² r v g w g m x g u² n| g| v g w g x c p. c m n q t² t g| v g o e u c m c p p c m x² i | g u| g t n q o q n { u^a v. o k e u f c u Á n| O c i { c t q t u^a i m w w u| / o k p k u| v g t² p g m r g p p k 0 C h g r n u² i² t | g v r g t | u g n w f c v² v n² u dd k u o² i u q m u| q t g o n g i g k m

C j k c w c n c n r Á o k p k u| v g t g m d g n² Á u| ¾4 p v l Á n d g p o w p n c / r t q i t c t o p q v u| q m c m c f p k 0 G i g m c d g n² Á u| ¾4 p v m c| w r c i q u x k u^a i^a r v o f k u| m² v l² p² n c| g u g v m v Á p { q o » v¾4 d u² i² d g p u k n g t Á v x c i { n g x² u d d² u k n g t Á v t g v t k n e k v r i g u² f o² p { g n p g m u| q m c m d k q p { w p k 0 J c o q u v M r g d g n u d g t i d g n² Á u| ¾4 p v l² p g m n g o g l² v t^a k r g u| v Á m c t t c c j c p i u| g n t² p { t g. co kv g f f k i k o w p n² u^a i^a p c m t g n q p u t w² n² u x c n u| g t / n g| v g w Á p m u t^a u| g t g n Á m c| v c j c p i g t u² v v co kv M r g d g n u d g t i n² u d d k o q p f^a u c k l g r p v g p g m g i² u| g p m Á n² p n g i g u² m² p { d g p n g u| t² u Á p n 0

C u| c x c m p g o n q p i c p c m Á t g u g p < c o g i g n |² u n¾4 g v n g| v g w g m

2teg v4mk o gi ngv ucl^avqu | gpi²uugr0 C rtqi tco o qv pgo ¶i²tgypgm j cpgo vgwpgm²tg| An0

Mrgdgnudgti vrgugup nkhqto^anfqw cjjq|. jqi{ c o ci c mAn/ fg²u²v gr²i gl|g0 O^at pgo eum c| gr²ck crcrqnev fqri q|v nk< uqm j gn|gp ul cxck n34 An gn xkrppcm c r3p{gi gu t²u|ngvgn ku0 N^awm o^at gn| rgi c mwn^at h34 p{/i qpf qrv i {34n²txgt²u²v0 Oquv o^at ul^atdc ul 34mgp0 Pg hrgf lAn jqi{ c o ci {ct jcl^av oc gnu uqtdcp pgo c nctf. j cpgo c mwn^at c vtv²cvc o gi 0 Pgo kuo gt euAn i gf²u0 Cnft/ o kn|gp pgj gl gm ku c xku|qp{qm cnfto gpp{kg fl l ku. cok xgnAm v4v²pv ô fqri q|pk ngn# C t²ik vtxgl ig²ugndgp o²i ul gtr gnv Mqru|ux^at. Rq|uqp|. Mcuuc0 Gj gm c| kcvqm r k j gplpggm fg ok pgo r k j gpj gvAn0 C j qphk An pgo cttcxn>. j qi { c vgwgt vo gi d²p¶uc0

Gt vrgugup j cpi uAn|q| c c wfwqo^ap{rqrk²ne hqvqu^ai^av0 Gj j g| lqi qv ul g| gw c V4v²pgm k V^atuwcv gp34nk ul²n²dgp nkhlgv o / n34²u²xgr0 Pgo ul cdcf qfclwvwpm jqi{ c o ci {ct p²r vcp¶» kf gi gp/ d n kôrqt^viv o xgn f²uv rgi {gp n3p{vrgp hrcckpndcp vglgl vgp k0 Ngi {gp gtgf gv k o ci {ct mwn^at c. rgi {gp o ci {ct wfwqo^ap{qu^ai < eum gl rgi gv c| crrlc. gt hqt^auc. j^aw²flg c v u i {34ngtgu o ci {ct p²r p²gxgr²upgn0 Vfwqo^ap{rqrk²ck vtxglpgm l» t²u|g ku o^at n²u|gp xcp0 O^at cmqt dglrgpvk r r0 c n²u ddk I { lgo²p{/gi {gvo nup/ egr e l^av0 Fg c| qppcn wcn c vto²u|g wfwqo^ap{qm hqvqu^ai^atc ku. j cpi uAn|q| x^ap. j qi { c m k p n m c o gi {gvo. c n34 i c l f u^a i k gi {gvo emAn²p34 i qpf qunq^auc v²ti {^av hqi²m n3rg|pk0 Jc xqrv xcrjc ¶i²tg. co gn|gv o gi v²|xg x^anqvc m dg. cmqt gl c|qm n34 An xc>0 Mrgdgnudgti. c v4v²pgro²u^ancn²dcp c ul gmgwfwqo^ap{qm ul gtm gwg. cnk ujc ugo vknqnc kn|gp k^ap{An emAn²p34 tqnqpu|gp x²v. c vto²u|g wfwqo^ap{qmpcm vcn²p o²i pci {qdd. o kpf gpgugv g ul An²u²i ul gt gp d ngl dd r^atvhi »lc rgu|. o kpv c ul ¶x²j g| cpp{ktc n34 gn^am» ul gmgwfwqo^ap{qmpcn0 Oclf pgo un²tc tclqndcp ul^anpcm c vto²u|g wfwqo^ap{qm hrgk^ai q| cv²u²ve²n » 34ngv k0

O kpv c²tg|vg xqpc. j qi { wfwqo^ap{rqrk²nl^a2tv gi²u| dk q/ p{qucp gi {qf cn^ai i c n x^af qn²m u t34 v3p j cpi uAn|q| v. j qi { c wfwq/ o^ap{r^atvq^ai²u² c p²r k unq² i qpf q|^auc gi {^ancn²p pkeugpgm gmgp^vv dgp gi {o^aucn0 MAn²p dgp ku t>n. cnk c lwn²p/gi {guAn²v d n kpf wv gn²u mwn^au^ancv knft nqt^adcp gnu uqtdcp c p²r k unq^ai m n hqi n n/ nq|qw hgn ugo rgi gv v²vrg|pk j qi { c p²r k unq^ai v gnj cp{ci qj cv^a0 M²u dd o²i cmcm c rgu| l>gi {p²j^ap{ul qt wi {cpgl v gro qpf cpk o gtv l>hqt^ap gi²u| o kplu|vgt²i²v x²i ki n¶i²tv g c x^af. j qi { c o ci cu mwn^at c n g f x²²tv gnj cp{ci qrlc c p²r k unq^ai ncv. ^ancn²dcp c p²r/ o xgr²u0 G|v c| ki c|u^ai vcrp x^afcv pgo wfw²m x²i rgi gnj cni cwcypk

o 2i c|qm c dgu 2n u^a o qu|nrqm ugo. co gn{gm c| cri²4fk pci { p²r/
kunar/2r²v rti tco o dghgl² v²xngi {o^a uo gn² uqtcn| vcn0

U| qnx^a p{qu t²u| xqpcv² km c hgrng| gk d² n²t< gi { ëmwu| i/
o kplu| vtpgm gtt n o gi ngnw go r²ngl plg0 Gi {2pkdd u| t² Am xcp c| qm²
pem c o qpf cvn² pem co gn{gm c mwn²tc 2u c ic|fcu²ik 2tx²p{gu²u²
" u| gh² i²u²t n u| »pcn0 Gppgm c i qpf qrv² pem d xgdd n²hl²v²ug rgu|
o clf c pggpcelqpcrk² pgo | gvgxgn rti tco o pem gi {km rgi r²p{g/
i guggd t²u| g0 G| v c i qpf qrv² v²tf go gu rgu| kf gkmcv²wpm o kpv
cppcm c dk qp{²v² n²v. jqi { Mrgdgn²dgti n²4 gn ugo xqrv cpp{ktc
ë²4rgv² go dgti. tcr u| qf kmu ko r²txk^a vqt. o kpv cj qi {cp uqncp i gm/
fq²n²0 C| ë²4rgv²ni uqm| qt j quu| A² xgm v p²f²u²dgp. uqm gm² n/
ng²2udgp. rgu| tv vrcu| vrcv²ndcp hqi cp²cm 2u 2trgn f²gn0 K² gp uqnev
2trgn² 3²rgv c mwn²tc^a pem o kpv ic|fcu²ik jcv²no pem hgn ci cu| v²uc
ku0 O^a t c Lw²k^a p/ gi {gu²rgv kun²rk 2u vcp² }^a | ck c o ci {ct ic|fcu²ik
2tx²p{gu²u² 2u v²thi n²ru gn tgv²rv^a n²uck xqncn# G| gm w²p o^a t
pgo 2tg| Am h^a | kpcm co k n²4gvng| kn² ëWcm²qf» i qpf qrv² rgi {gp
c p²r kun²rc 2tf gn² dgp n²hl²v²pf vgx² n²p{u² i Ap²ndgp c pgo | gk
gu| o g^a r²q²uc o gnw c|. jqi { o c c o ci {ctu²i rgi pci {qdd rti/
di²o^a lc c r²rf^a vcp o gi 2ij g²v²uk x^a n²i rgn² f²ug00 O k²n u² n² qucdd
rgw c|. 2rgv p{qo qtc. cpp^a n k²n²dd hgn ngn hgi {xgtg| pAp²m c o ci {ct
pgo | gvg c| qm²cn c ic|fcu²ik u| cn²kuo gtgv²ngn o gn² gntg c r²v²tv
xcn» m² f²rgo dgp u| Am² ig xcp0 C ic|fcu²ik k^a p{A qmc²v u i qp/
f²qrv² v dng ngn xkp²Ap²m c o kpf gpp²rk kun²rk dc ku. gt v²rgv² nk
ngm f²qo dqt² vcp²pm c o kpf gpp²rk kun²rk dcp ku 2u o gi ngn 2r² }gp²Ap²m
c n²4 2r/ 2u hgn h²ni c|fcu² i ku| cn²qmc² v u j cv²no cut² gpf u| gt² v

C uclv» vto 2u | gvgv² kuo gt²vgw c dgn²4² 3²pv v0 Fg eucm n²xgugp
uglv² m jqi { gi { xcn² dcp v²4² v²pgk lgn²pv u² i. c o ci {ct mwn²tc
2rg² dgp xcn² dcp nqtu| cnqu rti tco o jcp i | qw gn0 C dgn²4² 3²pv v
^a n²ru dcp. o kpv g ucd²mpqu o hcl gi {km r²rf^a p^a v n²l gn² m co kv
pgo r²gi gv tqu| p²xgp xgppk jku| gp cpp{k jcu²pn» hqi cf n²u|^a u jcp i | qw
Dk² t gn u hqi o 2i g²ij cpi | cpk o kpf gp n²4² 3²ugdd p{qo p² m² r0 Fg
cn²fv² cm qn² cpq² km. cn²km kuo gt² v m Mrgdgn²dgti o Am² v u t^a gu| o 2 ngn
jqi { gl c| go dgt pgo u| qn²qw c r²xgi dg dgu 2rp² k0 | tf gnu r² n0 c
f gdt g²epk Ngn² u| gi {gu²rgv e² |o hqn² »ktcv p² xvrgp ekm² }^a l² pem c
dgn²4² 3²pv j²4 h | 3²av gn² m²gf² ug0 C u| gt| xku| cgo r² mu| km c Lw²k^a p/
gi {gu²rgv xqrv Ai {xg| gv ki c| icw^a l² pem gi {2pk u| gtgv² go 2n² u^a t^a c.
tgp² n² k² Ark v²gi u² i 2tg. c| go dgt gm o gi p{gt² u² dgp vcp² u² | qw r² rgn²
vcpk Ai {gu² i 2tg. c pgo gu 2u u² r e² n²q² m² kv | 2² u² dgp o gi hi {grj gv
p²ci {xqpcn² i^a t^a c0 U go g gn w r²gdgi o 2i c| c nku n²q² p²kc. co gn{gv
cppcm² gl² p dqu² {^a m² o qj co gf^a p vcpw² nd² » nF gdt g²epdg v²gr² }^a gw0

O k p f g l g m w p o a t p { q o c v n q v n e r c | c m a n p d g p u q n x a p { q u
 o g i a n e r u j q i { M r e d g n u d g t i w a c l f q p n r r g p o q u v p { g t v g g n
 e c v j g w i 2 p g m n g i o g i h g n n d d o w p n e o g l v 0 e E u q f c u l g t x c t a | | u c n
 j e v c e k m t t c c | c t 2 u l k u . c o g n l c h g r n g l g v g m n 3 4 w k d 2 n g h p v q u /
 u i a v h g l v g i g v k e C m a t x c p t g p f l 2 p c l q t u a i u q t u c . j c p k p e u x c m u /
 r q r k k n c 0 C | g i { 2 d n r p v h 4 4 w g l g r p p v m e r g p n k u g u o g h w w c v u g i {
 » j c l v u a c n x 2 i | f k m c o k o g n g w 2 t f g o g u r g u l o g i a n p w p m g i { r k /
 r e p e t c . o g t v c l c m a t k r q r k k n c k 2 r g w e n n e r e u q r v q u n k a p u i q n d » n
 n g x 2 u v r l g u g f g w d g c p p { k t e v 4 n r g v g u p < e V c n i d a m o g i d g p p g c
 u a n { q u k f m c o c i w n g o d g t 2 v . c p c i { g u l o 2 p { g m c o 2 n w w f q v (0 0
 M v 2 x k g f v x r v d » n m a n p 3 u j c p i w r x c x c p g p p g m c r a t g i { u l g t
 u l » p c n 0 C d g v r l g u a n r t » l f e k m n g d f j c v a r p x c t a | u c a t c f d g n n a n 0

KKO

Mrgdgnudgti mwnÄtr qriksknek o nî4²u²pgm j^atqo ul cneul c0 ô C jgn|gnîr mwnwul o lplul vgtu²i g ng|fgv²p0 ô C euqpnē qtu^ai n|cup dgyi gm²xgk0 ô C ul qek² rku gi {gpañ hndqtwf uc0 ô C| qtu^ai ic|fcu²ik²ng²pgm o gi tgpf Æ r²ug0 ô fncpf» dgr qriksknek xlj ctqn0 ô MÄtr qriksknek gn|kigvnu²i0 ô Vgtxgm c euqpnē qtu^ai²ng²pgm^avo gpgk dgtgpf gl²u²tg0 ô Mrgdgnudgti k^ap{¶lc c vlc pqp nqtul cm gn hgr²pgm mwnÄtr qrikskñl^a0 ô O²n²gp^av²t|k c| Ä jgn|gv nî4xggn²p{gk u c| ¾4¾m e²n²m hgrf^auc p²mÄn cmæm c|nqf km c| cfqwf^aiqm j q|0 ô C nki {g|²u nqt^av ngl^atpcm²t|k²g|v pgo n²gv gi {ulgt gp vxa dd/hqn|vcpl0 ô Qr wo k²o wuc. dk cnu^auc c l¾k dgp. o l²pv c pgo|gk r²ngm i {»i {¶v jcv^aupcm gn hgr²vng0 ô C o ci {ct c èncvul x»lf m pgo|gvgi. fg gff ki o l²pf gp gugvdp o gi vrf nc ¾po ci^adcp c o²n²u²i d n xcn» hrgo gm²f²uj gl ul Äm²i gu gt ngv0 ô G|v c v²vgn dk qp{¶lc c v²4²v pgrgo ku²c c ul gpxgf²ugn²gl xcn»u^ai cn j q|^agf| f vÄpn0 ô C hgr²ngf pgo|gk²t|²u gr² o²n²» e²n²ngm nk²v|p|k²g| c mwnÄtr²p{0 ô C mwnÄtr²p{/i qpf qrcv hrdwmc^auc c| ¾ul gqo r²u w²p0 ô Mrgdgnudgti gnwcu^a¶lc c ur gpi rgtk²o wv0 ô E²mkv|²ug< O ci {ct qtu^ai n²i {gp Gw»rc g t²u²dgp c nlo ci cun»cp n²i o xngdd^anco0 ô Vlc pqp²u O qj^aeu ¾ul gi cuqpf²uc0 ô Gm hgrf cv c o gi r²x mwnw^aru ¾4¾m²i o gi / o gp²ug0 ô f r f q|cvmtc n²ul ul Äm²i. fg l²pi {gp c pgo|gvgn ugo n²r jcvpcm ki c k²t²v ngngv0 ô MwnÄtr²p{²u d²ngt²¶k²0 ô O ci {ct qtu^ai qv c o Ändcp ku n²i v²4du²¾ c mwnw^aru gt m r²gp f²gv²m c o ci cudc0 ô Xgtugp{ c nî4p{g| pgo|gvmmgn h n²i c|= Ä0 p0 wwf^anco qmmen< i²r n²qeu²k jcuqrcv0 ô Fg pgo gr²i c| ¾4¾m²i o gi t²ug= vxa dd hgr²ul²v²tg n²ul ul Äm²i0 ô C nki {g|²uk nqt o xgn f²ur qrikskñl^apcm d²¶lc^ancv0 ô C mwnÄtr²p{ ul gtrg c o ci {ct o Ändcp0 ô Mrgdgnudgti o gi p{gk vgtxgk x²i tgi cl²v²j q| c n²to^ap{gp²¾m v²o qi cv^a0 ô Gi {g²v²u² 2u ¾ul gf qri q|^au Dgy r²gp Kvx^ap²u Mrgdgnudgti nî4¾v0 ô Xqn/g ètgp f ul gti Mrgdgnudgti mwnÄtr²p{/gri qpf qri^a dcpA ô C vgtxul gt u²i ul gtrg Mrgdgnudgti²ngv x²dgp0

Mrgdgnudgti²ngv x²pgm vrdg²¶v²ug nî4 dgp xcno kxgn c hrgÄvqp vÄn ¾4²xk mwnwul o lplul vgtu²i w²p c o ci c mwnw^ar qriksknek o nî4²u²v j^atqo ul cneul tc qul vqc0 C| gn dg o²i dngul^ao ¶lc c| gn|o²p{g/ ngv c j^adqtÄ crcw²u c j^adqtÄv nî4xgvgnÄn nî4xgv kf v0 Gmqt ô c V²4²vgrm k V^atuwcv gp²¾nk ul²n²d n ku ô n²i h dd hgrf cv²pcm c|v vctvqc. jqi { c o^at gt ugp euÄi gf wf»uqm n²m²dgp c tgo²p{v²u k²i cm cv²ngul g0 C o^auqf km nqtul cm o lplul vgtu²i g ng|fgv²v ¾4ngng co knqt n²u²i dggugw j cteqv hqn|vcvq c tqul vn cmæm c|qw

vcnet²nqu^ai k rqrk^{nk} o gi/o gi Àlwn» v^ao cf^auck gmgp u o gi x²fvg
o xgn f²uÀpm ²rgv^lgtxgk^v c o ci {ct mwnÀc crcr kp^v|o²p{gk^v.
ku|qp{cvqu hgrgn u²i pgj gl gf gw cddcp c| kf dgp tg^ao = gl o ci {c/
t^a||c o gi c|v jqi { c jctedcp gi {u|gt/o^au|qt t²i k det^a vko o cn ku
u|go dngtÀngo ì0 C jcto cf km nqtul cm c u|cp^añu. c| ^amco r²p|Ài {gk/
pgm tgpfdgj q|^auc w²p n³kgvngl gw dg0 Gmqt fqñi q|v nk c rgi v²dd
gugvdgp l>xcn t²i gddgp nktqto^añv crcr g²kgm hki {grgo dgx²vgr²xgn
mwnÀr qrkkn^ll^a pcm t²u|rgvu. u|gtxgu r tqi tco l^av u gdd n c|w²p
ki {gngl gw cpp{kv o gi xcn»u^lcpk co gpp{kv eucm wfqw0 |tfngv.
jqi { n²u dd Dgv rgp Kux^ap c o ci c n²to^ap{gp³ñu²i²pgm v^l 2x²v
u|kp²p j^atqo t²u|tg vci qnc c|cn c o gi qn²ñ ucn jqi { èc rtqdñ²o^am
eucm dk qp{qu uqttgpf dgp. gi {o^au w²p xqncm o gi qrf jcv»m0 C| gnu
hgrfcv xqrv gi { ^amcpf>dd. o n³4pk wf>. rqrk^{nk} xgl gv²uv²u k^a/
p{v^l» i qpfdcvqv grd^l» ètgpf u|gti n³gv^lu²g0 Cij gl gn dd jgn{tg
ngngw^a n^lcpk c ngngm gi {gpuÀ^av o gi ngngw u|gtxgl pk c xgl gv²uv.
nk ngngw m²u³4³pk c nercpf qu. gi {²pk rqrk^{nk} x^am²ñ^lu^aqnev.
dk vqu^lcpk ngngw c lqi tgpfdg0 C o^auqf km u|cnev^l hgrfcv xqrv c
r²p|Ài {k tgn²putwnek²u c i c|fcu^lik vcr tc^a n^lñ^lu. co gn^l c|w²p
r²gv x² vgw c jcto cf km nqtul cm f³pv o q|cpc^vv. c| cm^lkcdd
m²Àr qrkkn^lv. c| gnu ki g²gm²i Àpnd n xcn» nku cdcf wf²uv. ^ancñ dcp<
c pci { pgo |gkr tqdñ²o^a mo gi qrf^au² pcmh²ñ^lcvqu gn n²u^l v²u²

Co kp^v ñ²vwn c mgdgn²gti k o^auqf km u|cnev^l kf dgrk^{gi} gi {dg/
gukn c Dgv rgp n gnu t²u|pgm lgt^lgw kf n³4|gr0 Gdd n n³kgvngl/
vgj g^lÀm o leuqf c jgtqknu hgrfcv xqrv cddcp c| kf dgp c r w²lv
o gp²uk cnek# Ok go dgtgm ô u|gtgpeug xci { u|gtgpeu²v²pu²i A ô
n³4pp{gp hgrl v²pm u m²Àp³4gp c n³4 gm Àm²cn ner euqrvdcp vñ²ñwn
o gi vñ²p c rgi pgj gl gddgp c o²n²p{qu ^an²uhqi n²ñ²ut^c cmer² cu r²mk
n²u^l u²i g0 J ku|gp o ci vpm ku dgppg ²n²pm gl v hqñ{v²vwn u c n²Àp/
d³4 n³4²u²i gm pgo gpi gf km jqi { cn²t n²r|grv²Àpndgp gn wf lwpm
lw²pk c o gi hgrgn v²xrcvki0 U m²Àp³4gp pgj² c v²xrcvq^v qw o gi vñ²rp^k
cj qn o²i c rgi v²ti {kci qucdd u|go ñ²rgv ugo wf o gi u|cdef w²pk c
perk rqrk^{nk} Àxgu^lv ldg xcn» dgrgv²xg²u i {cp²À^aw²ñ0 C nqtul cm
o^at r²l^atwx fg c u|gtgr n m l> t²u|g o²i 2ⁿu v u²r u^ao o cn xcp²cm
n³4 v²m qñ{cpqm cñkm p²m²ñ c o ci {ct n³4²rgv euq²nc rppp0 C rqrk/
vnek u|gpxgf²n²gm c|qpdc² c pci { x^an²l^au gmgp²tg o²i o kpf ki pgo
euk²cr qf vcm rg. vñ²p c²tv ugo. o gtv c n³kgvngl u|cnev^l qm rqrk^{nk}
v ngi { l²u²dgp pgo nku u|gtgr gv l^aw²q^w c Dgv rgp/nqtul cm c
èn²pu^lqrk^aek²ì gtgf o²p{gk²gm nkugdd²ug. r²dgeu²ñ²ug. c| gr²w²u^l/
vq^w cmer² cnp²cm w>ñi qu ²rgu²v²u²cn xcn» n²go gr²ug. c| gm²kgv²w
o gr²h²i^auqm vgpfdgpe²l wu n²go gr²ug0 O²i c|v ku go rgi gv²m jqi {

c| Å0 p0 gtgfo²p{gm c vto²u|gvu i{»i{wř uk hqn{co cv. c l»v²nup{
 kf^ař^auck0 lqi qu o²n»u^ai i cn hrgn o kpf g|gmtg c|^anř^ř uqntc 3; 54/dgp
 Dgvj rpg< ě| p qw^amqwco c pgo|gv dvgi^ai{^ap^an o knqt c hqtte/
 fcm cm w^ř p ř|dcp fgrk^ařc hgnřv²u qtxquck pgo wřv^ř m jqi { c
 dvgi c tgi i gnv o gi²tkg0 J qn xci {wpm o c gw n c|^amer qw»řA | u pg
 jki {lg ugnk jqi { c i{»i{wř u o ci^aw»n o gpv0 C xkř i qp ugo o k ugo
 o gi { o ci^aw»ř0 G| v eucm c|qm jku km cnkm o²i uajc ugo o kv pgo
 cmqvcnř0

O quv rg nřm xgtpgo c| gřkf wř u rqp^vtc c lgn r»|p^av jqi {
 o clf rgo²tj guuřm c o gi vgw wcv0 C o gi hrgn j^aw²t dk vř^ř uc e²n/
 ř^ad»n t³kř gp x^a| qrpqo nřm c| cmqt k nř^amer qvqncv0 ě kř hcpf wo 00
 kvdgu tgpqxctg f qrtgo ř Mř⁴ jgn{u^ao dc o gp o gi^amer ř^ř uqm
 nř^řgvng|pgn0 Fg o²i o quv ku nřv²xkř gf wř p. c xkuu cgo ř nř²uv n
 uclqi o kř gp kř gi u^anřpn0

C d²nřv c xkř i jcvcm cuk Mřgdgnđgti o gi^amer ř^ř uc u|gtkv ku
 tgvpgvgup gř kd^a|v^an0 C|»vc gl v o^at o kř gpnk wřlc ô m o ci w m
 kř Cmmqt o k²tgl vřm c|³u|gu p²rgm nř⁴ řn rgi lqddcp. o gtv xgnřm
 vř⁴v²pv c rgi pci {qdd ki c|u^ai vrcpř^ai0 P^anřpm c o gi euqpnř^ř u nř^ř
 p³řgp uřn{qu kř gi dgrk²u x²tnętkpi²uk |cxctqnev qm|qw c o gi o ctfv
 t²u|dgp0 Gi {km lrgu ugd²u řpm cnkřgm jcuqřvc²rrgp o guvgtu²i²/
 p²n hqi xc vřlgugp u|cmu|gt. c| qtu^ai qv c| corwřnv ugdgu řnř³
 jcuqřř^řqvc. cnk ř^ř|^am^adep ě²t|k jkř p{|» x²i vilck ř ř^řu^av u o gi/
 rřx pgm wřlc o gi ugo o ku řnv vilck i0 O ci c Mřgdgnđgti nř u ddk
 ř^ř uckdcp vř⁴řdu ř⁴ xkuu cv²t c| cmqt k^amer qvm x^a| qř ř^řtc0 T^a/
 o wcv jqi { c t²i k o ci {ct^a nřo nř⁴ rqp k u|gtxgk co gn{gm gi {
 nř⁴ gn jwul ppgi { o knk»u pgo|gv ř ř^řu^ao^aj q| xqncm o²tgvř xg. ô
 o kv c h x^atqu. c jkřcvřm c nř⁴ rqu ř^řř. c i c|fçř i k u|gtxgm ô
 kv o ctfvc m xku qp v gnu|cnř^řqvc m v řpm vř gpj^atqo o knk» vto gn v. ř
 cf»hř gv v hqi {cu|w»0 C| qtu^ai gřgu vgw nř vjcto cft²u²v0 Fg g| ç
 ugo xqřv gř i0 C o gi o ctfv gi {jcto cft²u²v c|²i dgnk^an» d²nř/
 u|gt|f²u c rgi ki c|u^ai vrcpçdd. rgi uřn{qucdd vřtj gmřn uř^řqvc0
 /T^acf^auwn o²i c p²i {²xgu x²tpř^vu»n co ři { ku vř^řntgo gpv ř^řř³p
 gn dd tcf knřku hřtcfçmjo. o clf nřo o wpkvc |gp ř ř^řu f ř^ř ř³p i ř^řv.
 jqi { o²i c o gi o ctfv²v²nřngv ku gř wul ř^řuc0 Dgvj rpg ku o gi go ř ř/
 nř km nř u dd c d²nř u|gt|f²u n co gn{pgm ěu^a| rctci tçmw ři {
 nř f f km jqi { O ci {ctqtu^ai ngo qř 00 O ci {ctqtu^ai j q| |^ař^atw00

O ci {ctqtu^ai pgo vř u| nř hqi^auv c| gmř 00 O ci {ctqtu^ai c o ci c
 t²u²t n nř f lc 00 uvd0 uvd0 G nř^ř⁴ uřm o kř fo gi c pp{k cnev wř v
 lgnřv gwg m c i c|fçř i k²řv u^ao^atc0 ě J c gi {gv o gi ř u| wpm ř ř^ř řpm
 nřngw. jqi { nř^řgpexgp nř^řgp e o^au cnev wř ř^řtc hř j ř |^am c o ci {ct

ic|fcu¹ik ²ngvpgm o kpf gp ngj gv u²i²v0 Xcn>dcp euqfc. xkfi¹tcu| >n> euqfc. jqi { gl v c ¶²xgu nqtu|cnqv o gi²m¹0 Fg jku|gp ²rrgp c| xqiv c e²n< c o ci {ctu¹iqv r¹v²dgp o gi¹v o cfpk c| gi {²dn¹pv ku r¹tqdrgo cvknu o ci {ct r¹gv. co gn|pgm l³k l²v o^at Jgtfgt n¹v²idg/ xqpv. x²i n¹gi grkp²|pk r¹l^atpk c x²i gv ulgwgypk0 U o k o ci wpm ku o kpv c j q|^a r¹wpm xqpc. jqi { o gpn gn dd gr²i gi|¹0 Go r¹/ vgwgo o^at. jqi { c| gnu pgo|gi { r¹ugp o k¹gp ^ancr¹qvm xqncn0 C u| ppk pgo cnet> u|go²n{k jcteqm go r¹ng|v¹wgm c v¹/dd o kpv o^aul¹n ²xv¹gf gu qdvtwnek> eri ul gddi pcr lckc. h n¹gi gi { rqpvp< ³po ci wpm o ctepci q¹r¹dcp ²u i {gpi ¶¹v²dgp0 C v¹oc x^amq|qw c r¹p{gi wi {cpc| o ctfv0 C d²nc/gi²tjcteqm uqncmen grfngf vgw²m jqi { ²i gv . o gi q¹cfpf > r¹tqdr¹o^a kpm xcpcn0 O kpf gl gnp²n h¹pvqucdd xqiv c u|go²n gung²u. c v¹nkpv²n(gm tqo d¹r¹uc. c| k¹ic¹v¹u. u v c pgo |gtqp¹u0

U qek¹rku u|go rqpvd>n c euqnc qtu^ai c ngj gv n¹gi²u²i vng/ pgdd vci q|>f^auA xqiv0 C n¹4²rqu|v¹n¹ n¹gi {gpi¹v u|gtgrg ô h n¹gi o²tjgvwgp cp{ci k rgtgo qwu¹ic n¹4¹gvng|v²dgp ô l>h¹to^ap o gi/ u|p¹0 C| c jquu|A kfgi vctw> n¹4²tgv¹2u. co gn| c vku|v¹ku¹n/ qu|v¹n¹ ²j d²ttg u|qt¹v¹u¹xn cnetv c n¹4¹u²i xgv²u gi {gpi¹v¹ xkuu|c^a n¹4¹cpk dgvg|v c tqo r¹u0 Gi {o^auv n¹4¹gv²m c r¹u¹o^a eu¹4¹mgp¹v¹u¹n0 ¶| { r¹0 eucm 3;44/dgp 33.222/tgn crcu|qv¹m c| ^ancok cncro c|qwm u¹o^au0 C h¹n¹4¹gnx nkui|c|f/t²vi o²i gi {^ancr¹p pgo xqiv cddc c jgn|gdgp. jqi { c xqiv n¹4²rqu|v¹n¹ v¹tucfcm k ²u r¹qk¹nek h¹ncf¹v n¹4²v¹ v¹gv¹gw xqpc0 U j q|^a o²i c x²tgu qtu^ai euqnp¹ o ctfv n¹4¹gn n¹vo kn>p{k ngmgv u¹o^ar¹n> o g|ic|fcu¹ik r¹tqrvet¹wu0 C| gi {gu v¹tucfcm k qu|v¹n¹qm h¹ncnuu|go gv p²|v¹m gi {o^au¹cn0 Dgmw qo plwo eqpvc qo pgu#

Ic|fcu¹ik u|go rqpvd>n ô jc gi {^ancr¹p ngj gv ô o²i u|qo qtAdd xqiv c jgn|gv0 C o g|ic|fcu¹iqv ²u c| krctv c p²i {²xgu j^adqtA c h¹ttcfcm cm u c| glngv n¹4¹gv gngpu²i gu o gi u^an¹u c v¹to gn/ qu| n¹4³nv n l>h¹to^ap o gi hqu|qv¹0 C v ng gr wu|w¹0 C pgo |gv kpi > xci {qpc pci { ³uu|gqo r¹udcp l>t²u|v o gi ugo o ku¹0 C xk¹i j^adqtA j uk jcn¹wck ô co kpv gttg Mgdgndgti ku t¹owcv ô c ic|fcu¹ik ²ngv n j¹k¹p{|q¹cn0 C j uk jcn¹wcm p²xuqtc o²i c n¹ku¹p{ h¹ncn¹dcp ku o gi f³/ddgpv jquu|A xqiv< g|gm c lxcn¹qtdgrk l¹th¹cm j¹k¹p{|q|/ vcm pgo eucm c euc¹f qn¹pcm jcpgo c pgo |gic|fcu¹ipem ku0 C nqt/ qu|v¹n¹qm ²u pgo gm v¹to²u|gvu ct^ap{c h¹nkmgp< o gi u|crqtqf vcm c| gnctqvcm o gi hqi {cnu|vcm c fqi q|>m c euc¹f fh¹ppvctw>m c ngtgu n0 M¹r¹p vci²f¹k¹pcm u¹o^a ¶|qw. jqi { c v¹kpqpk qtu^ai euqpm pci {qddt²u|v gi {dggugw c|cn c v¹t¹gvgn co gn|gv c v¹4³/m o^aul¹n

2xul^a|cfqu o gi ul^anf uc crw gr wul^aqvw. nkqul^aqvw u co gn{gp c
 jgn{tg^anf^au o wpn^alc crcl^adcp x²xg c|»v o²i dg ugo hglg| f³w0
 O²tj gvgv^apgm hgrcr>|^auc. co gn{ gi {km pcr>n c o^aukntc ul^akv^a
 o gi qrf jcv^acp rtdqf^am gr^anf^aqwc c ic|fcu^aik²rgv0 C r²p|
 2^tv^ang pcr>n|pcrtc jcp{cmw0 Gppgm n³xgng|o²p{g o²i n^ai³p
 gtn³reuk cpctej^adc f³p³w^ag c v³o gi gngv0 C| gtn³reuk crcr qp^am».
 c o wpn^a vku|vngv²dgp hgp w go dgtgm ul^ao^atc grklugj gvgvppgm
 vgw| gw c| c jgn|gv. co gn{ l>hqt o^ap o gi ul^aApvgw c o wpn^adgeuArg/
 v³0 C| qtu^ai o gi o ctf v t²ul g v|uf²|gw< c| go dgtgm c hkuugp
 o gi x^au^atqrv A³uf i qmb>n gn ul³4 c| v c t²ul v rcr q|v³m hgn co gn{km c
 v|uf gk^athq{co qnevctw0 c|v0

Dgr qrkknckci ul^akv^a ^amcpf>»wncm c xlj ctqm c rqi^atj^adqtÀ
 cvo qul^ah^at^av gr^atw> À0 p0 ènkrgpi²ugm0 f mcpf>dd lgrgi nqto^ap{/
 |cv>n ul>» ugo rgj gvgw< c| gi {gu nqto^ap{qm i {qtu kco dcp x^anq^am
 hgn gi {o^aw0 C Hkglf tlej/nqto^ap{ 5 j>per ki. 37 per ki²nc c J wul^at/
 nqto^ap{ jcv pcr ren vx^add. c Uko qp{kUgo cfco/nqto^ap{ 34 pcr ren
 vx^add0 Gi {gf An c Vgrgnk/nqto^ap{ wfvc o ci^av. c| ki c|. jqi { n³v
 t²ul rvgdgp. ; j>per ki²u 5 per ki vctvpk0 U c nqto^ap{qnpem xclo k
 ngx²u xqrv c vgnk³v^añ^a0 C pgo|gi { r²ut n o^at ul>»nc0 G|v c vgu/
 vArgv ki c|^ap eum rqrknck pckk³u^acn rgj gvgw xcrc0 k³rg nqto^ap{/
 |cvk v³o cu| rqpvc m gm³r|grp0 C| cf o kplu|v^ael> cncf q|qw. u v
 uqnu|qt rcp i qw0 C v³tucf cmqo ul^aqgugp w^awr^aiv o ci^apcm nqto^ap{/
 |cvk lqi qnc0 G| xqrv c i qo dco>f tc ul crqtqf> vknqu v³tuc^ai qm
 h³p{nqtc0 G gm o kpf gi {kng c o ci c gri qpf qf uc ul gtlpv ul gtgvg xqpc
 c j c|^av o gpv³0 VAn v³w gi²ul^ai vgrgp rqrk^añ u hqn{v. co kv gn/
 ugi^aqgw c| ku. jqi { c uctnkd>n nkrgp An ic|fcu^aik²rgv c vgo gn
 o wpn^av>n gnu qnuwem ul^a|g|tgk v o²i cmqt ugo wfvc xqpc c pto^a/
 rku rqi^atk ngtgvndg dg^anf^acpk j c c|qndcp o gi rgw xqpc c o wpn^atc
 c vglgu n³ul^ai0 Gnu crqtqf vcm c m^ai³p³o²p{gm< o kpf gi {km h^ai i gv/
 rnp³qgw o ci^av c rgi {gpi An n³4 rqp^ak jcvcmo w>n u xcn^ai qu^amco qv
 cmq³qvw c|^amco dcp0 C j^aw²tdgp tglv^am gu gt m o n³4 vgm co gn{gm
^av^añ|v³m c| gi²ul^a 2rgvg. k^ap{^aq^am c| Ai {gngv hngogngm²u
 dwncwcn0 Ocic Mrgdnudgti n³u dd p²j^ap{ rcr k^atku ul>»xcn euk^anc
 o gi c fki p>|kw< èXgul vgw j^adqtÀ²u eu f³w o qpf qw hqtfc cmqo
 w³pkw^anqw c| qtu^ai. o kpv gi { nk²i gw m^avgt. nk^aqg. rgvctqkc.
 c hgm gtAn gu|o²m kpn^add n³|dgyi n³vo^auck xqncm ugo o kpv
 rqrknck nqpegre<m²u o gi xcn^au³ij cw> rqi tco o qm0 Rgf ki o gpp{k
 vggpf x^atv t^apn# C| Ai jgn|gv n³xgng|v³dgp o kpf gp pci { n³tf²u.
 co k eum gi {^amco²rgv²dgp gn hqtf wj cv. p{kxc xqrv. c|^amco /

hqtō^a wⁿ ngl f x g c lgi { dcpnki . c rqrk^a nek r^a tqm n² t f² u² v n ngl f x g c
n² 4² n² w² p m c m w w^a mco qm m n x c n² i c f c u² i k² u gi { 2 d n r e u q r v q m
n² r² u² k i u d 0 u d 0

J gn | gv² p ngv u² n² q u d² q w c . j q i { d g n d c l c k p m n h q t t q p i^a /
u c l p m n n² |^a m c k p m n g i { g m g p u² i g u x k i n² 4 g r² p x g t i f v² p m
3/4 u | g n² 4 w² u t q n p u l g p x p² m² n² g i j c i { c w c . g u l k i g v n g p 0 © i { u | n² /
x^a p n k n² 4 3/4 u | g w g m d g p p² n g v < u g j q n g i { d k² v w u | » . u g j q n g i { u g i² v
n² | 0 R u g w f q / g o k i t^a p u c k p m c n p c o w n² l c g m g p² p m k p i g t g m g c j^a d q t^a A
w² p p c i { j c w m c v l g r p v p g o | g n² 4 k o w n² u l g t x g l g v g m f² 2 v .
C m² n² 4 f k n r q m o² i c u g o n g i g u m u c l w l c k u v g x q n c m c h g j² t
v g t q t t > n n k i { c m r q n q r k n² 4 g v n g l g v g u² i i g n v t l g u v g w t² o g u g u g /
v g m g r 0 Q f^a k i l w q w w p m j q i { g n n g n g w u l g p x g f p² p m c l² i t g x g l g v g w
p g o g n² 4 k o w n² u r^a i u |^a n² u k d q l n u w^a v ô c l k i c l . j q i { c d q l n u w
g i {^a n c i^a p p g o u k n g t^a n² C n k u / g p v g p v g c o c i c d u² i g u c p { c i k g u l /
n² 4 g k g n v² r i^a n c c l g m g p² p m k^a p { w w r t q r c i c p f^a v 0 C m² n² r q i k n² /
d c p g i { 2 d n² p v e u c m c l w n k o^a w o q m j c p i p g o² d g p² t k p v n g l v g m
x g n² p n 0 D e l c l c p n e v o² i c x k u l q p { n c i q u l > k p f w r v u g o x q n v j c l c r p f >
n² 4 g r e d d t n o g i x k u i^a r p k c p p^a n n g x² u d d² o g i² t v g p k 0 N² v² p m x c i {
p g o i² v² p m o² i c u g o n g i g u g m u l g o² d g p k u n² 4 3/4 d² u² x^a n 0

K w | c v q u o² t g v² u h p q u u^a i^a A x q n v c o g i q r f c p f > h e r f c v <
o g i w r i p k c o q f w u x k x g f k v c m e r o c l n q f p k c o g p p { k g n g i g v w
c d² n g u l g t l f² u g m n g o² p { h e n² v e r g l j g l . d g t g p f g l n g f p k v x^a d d² r p k
r g t u l g n g i c r d d c x g i g v c² k^a m c o k r² v j g l x c r o g p p { k g o² n w o > f q p 0
C e n n p u l q r k^a e k^a v i o g i x^a f q n^a m j q i {^a m e p f > u l c p k c n e t v c c d² n g /
u l g t l f² u v n v t g o v g w^a m e r q v q n e v . j q i { u l k p v x² i n g i g u g p d g t g p f g l /
n g f g w V t k e p q p t c u d 0 l t f g o g u / g g l v e^a h q p k A V e r i p j e n i c u w m
o g i c n q t q p e c p^a v . D g y n g p K w^a p v 0 D g y n g p c l v v e t v q w c . j q i {
c r e r l^a d e p x² x g c I q p f x k u g r² u A l c d d o q t c w t k w o q v g p i g f² n² g l g w
2 r v² p n p g m u c v x^a d d k c w^a n h^a i . o g i w f l w n i g k f g l² d g p q r f c p k c l v
c r t q d r i o^a v c o g n² g r² c u q t c m n q t d g p p² n g v^a n² q w 0 F g h e n² v g p^a n
d² l q w c d d e p . j q i { c u q t g i { u l g t o c l f t^a p m n g t^a n o^a t e u c m c l² t v k u .
o g t v G w > r^a p c m g l g p c r q p v^a p c d² n² p g m p² m² n² p m p l e u² v² n g 0
e P { q r e o k r k > g o d g t p g o u q m f g i t c x k^a e k^a u n² 4 r q p v^a p m n k m g i {
p c i { l² f t e l l k g i { u² i p g m u g l o² i h q n u l | c g t g l² v 0 G i { 2 d n² p v c n g i /
o² n² g d d o g i i { | f² u g n x c m q w c . j q i { c l q t u l^a i e u q p n q p c l² r v
e u c m^a v o g p g k r g i t g p f g l j g v d g < e C o c i { c t^a m e o o c k i g q i t^a h c k
j c v² t c k o g n g w g l c p g o | g v x² i n g i g n h j i r w u l w p k j c p g o n² r g u
w c m^a v c l q n { c p v g t^a r g v n t g k u A l d > n n k s g t l g u l v p k c o g n² g m p² m² n²
d k² v u l² q w 3/4 p^a m^a r² v g² u h p p o c t c f^a u c g n p g o n² r | g j g v 0 C p g o | g v /
p g m p l e u o^a u x^a r c u l v² u c = g l | g n n g i { p m v g r l g u g p v u l v² d e p = o g t v

Euqpnco ci {ctqtul^ai jcv³tck ugo o^auqm»n h³ai gvrp rqrkknck r³vgv. ugo 3³p^am» ic|fcu^aik 2³rgvgv jquu|cdd kf tg pgo dk³vu|³cpem⁰ C v³4/v³pgrgo ô glv o^at vcr³p ul³cdef o gi^ancr³|³cpwpm ô Dgvj rpvv ki c/|qnc u pgo c|qnev. cnkn kpn³dd cnet³v m c euqpn³ qtu^ai r³v²v ku nqen³tc vgp³pk o kpv Vtkcpqv cmt^avo gpgv³gi ku gr³qi cf p³0 O kv 2^t c|gmug³gf²u jvcv³k gu³n³4³m p²m³Än^a O^at o^auqm ku o gi^ancr³|³q³w³m jqi { c o ci {ctu^ai. o kpf gp Vtkcpq³ gmgp²tg. o kpv^a mco cmq³» pgo |gv c pgj²| 2^u jquu| Ä rt>d^av nk³mc. pgo dwn³q³ gn v³4²pgv³ jkcv³u^av. fwpco gp³k r³q|³ek³l^av pgo cfvc hgn u x²i tg ku ô jqi { Dgvj rpvv nk³elg/|2^u2^v jcul p^a rco ô ët^angt³Ävc uqt³i 0

O²i vcr³p p²ok n³pegr³ek³ xqv cddcp c i qpf q³rvdcp. co k gl kf v³lv uqm n³qr³q³{^adcp n³|²tv³w. jqi { hqto^a r³wm^av c euqpn³ qtu^a/ iqv qn³{cul³rg rctcu|vtu^aii^a. co kn³gptg c j^adqt^aÄ gn w c Dem³p³q³ cnefv r²rfc⁰ C| q³r³ko kv³m c|qpdc³ kpn³dd F^apk^axcn r²rf^an³|v³n⁰ G|v o²i ku eucm xq³|»ddp³em i qpf qn³n⁰ C j^aw²tdgp qw xqv c o gl³|v³ r³dcu gm³r³|gr³u³< o gi ul³crcf³pk c v³4²pgv³ O ci {ctqtul^ai²tv x^ancrcpf³» n³Ä fgrgo gn n²rrgp cmq³t. o kf p c n³4³Ä³w³Ä³pm c³rnw³ Ä^a mco qm r³gv³m t^a. jqi { 3⁴3⁴m²i Äp³ngv^a xg³gu²n⁰ C| gnu n³4³kgv³|o²p{gm gi {kn³ r³gw xq³pc 2^{tv}gm k²i Äp³ngm o²i vx^addk 3⁴u|gl³uvi qt³u³c⁰ Vcr³n³cp p³xgl³v³m gn c| kn³{guh³lc³ cit^atfgo qnt^aek^av ëo ci {ct tgl³gt/ x^aek³pc³n⁰ Mrgdgn³dgti ku h³gr^adqtqf³q³wcp v³kn³cu|km c| 3⁴rgv gmgp⁰ C dÄtqm ugo w³vc³m gi { kn³gp^a mco qv h³pp³ct³cpk ô F²r³C|t kn³dcp=³ jqi {cp r³gj³gv³ gi { kn³gp c³rnw³qv c xk³i d³gx^atq³dcp. Gw³r³c n³4³gr²p. o gi o g³vg³pk^a P³keu o^au j^atc=³ o kpv o²n³u³i³cn 2³rl³# C v³v pgo nk³gdd 2^u pgo pci {qdd. o kpv c v³4²pgv³ pgo |gv r³vg⁰ C n³Ä fgrgo c|²tv h³q³km jqi { c lqi vcr³pwn 2^u o 2ⁿ3^p{vcr³pwn v³4²ntg/v³w pgo |gv³v c o gi ugo o ku Ä³u Ä^ap o gi r³gj³gu³gp^a n³|³cp³0 —d³n³ r³gn³gw ten³pk c o 2ⁿ3^{dd} ^amco k r³v c³rc³lck. o gi ul³gtx³|pk c| cmq³v o^ap{qu. v³tuc³cm³k 2^u r³qrkknck r³v Ä^a hqto^akv. jgn³{tg^a n³|³cpk c ic|fc/ u^aik tgp³gv. d³gn³rcu³q³fpk c pgo |gv³m 2³rv²dg ô u o kpf glv Ä^a{. jqi { n³4³dgp p{cm³pn³qv xqv³c n³u⁰

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o kpf x²i ki c| gn v²tdgp o ctcflqp0 O wpi¹a pcm ukngtg c| qpdcp lgrpp²ngp{ o²t²v²ndgp hAi³w ô gl kuo²v vto²u|gvu ô c nqto^ap{/ gpr³m o gi²tv v²o qi c^vu^awⁿ ku0 Pci { u|gtgeu²pm jqi { dk qp{qu rg pgo vicfj cw² pgi²|u²i gm gmgp²tg. co gngmgv h rgi c| cp{ci k gu/ n³4³m nqt¹vq|qw xqnc lgrppvgw. c| Ail^a2r²u nqtu|cni pcm n²v pci { xgl gv r qrkknwuc. Dgv rpp²u Mrgdgnudgti. c rgi u|gdd jct/ o »pk dcp fqni q|qw c o ci {ct o xgn f²u o gi o gp²ug²u vx^a ddhl/ rgu²ug²tf gn²dgp0 C n³4³gmgl ndgp v³4du³4 cmero wpm rgu| o clf gl vc|³4u| go n³4²uvcf cvqnmknwul v^a ipwpi0

Mrgdgnudgti²rgv gffki lcxct²u|v eugpf gu. p{wi qfv o wpi¹xcn vgn gr0 C tgpf. c rqi^atku o gi^amcr qf qw¹i go dgt²d n c| qpdcp c tg^a x^at» pci { hgrcf cv^a i qpf qf ucnqt nkAn³4 km c xlj cto cf^at² u c xgu²n{gu²rgvg² n²v ncvqc u³m n²ugk rgu^ato c| qwlc u²rpgm v¹rlc c m¹f fgn gu jcteqv c uqtu ki c|u¹icrpu¹i cixcn u|go dgp pgo|gv²u²3po ci c u¹o^atc gi {ct^apv0 V³4²v pgr k vcpw^ap{ckd»n m¹4²pdgp ku c|v c vpw¹i qv xqpv rg. jqi { c jcte. cni² x²ttgn cni² x²t p²m¹n c hgn f²u gi {km rgi^ampf»dd rtkp¹r kwo c0 èCnkm c r qrkknec²rgvg ô²rlc ô c| gu²v²knw u|go²xgn p²|km nqtwpnev pgo v¹rl^am u²rpgn0 Fg cnkm c jkxqtknw o ci curv^atc wf pcm go gmgf pk c|qm xk¹i qucp n¹v^am jqi { pkpeu |qf qp u²ru²i p²m¹n c|. cqi {cp gi { pgo|gv c dcnqtu o²n²u²i gkd nj cvco cu gt hgu²ugmgnhrgo gmgf kni 0

G|gnldp c i {3p{34 . o²n{ gi {2pk n¹i^awⁿ a^h v³4v u|excndcp euqf^arcvu²ku v¹u¹i cn tci {qi Mrgdgnudgti Al²rg²t|²ug0 O gi tci cf» r²rl^alc gl c ngf²n{dgrk²u u|gngo k twi cm cu¹i pcm0 Mx²u xgl gv go dgt u|gtgr gw c| cniqt k n³4²rgvdgp. cnk qn{ ku v²p²tg|vg u qn{ rqpvcup n³4²utg lwwcvc xqpc. jqi { Al nqtu|cndc n¹r v¹pm c t²i kv gi {u|gt gp hqn{vcpwpm pgo rgjgv u¹o qv ngm xgv¹pm j c cnetlwm j c pgo. c dgn³4³gmgl gw x^anq¹uqmmi0 U|gtkpv m¹4²pdgp ku o kpf gp o guvtu²i dgp ô²rl{ c r qrkkn¹dcp ku ô xcp xcro k crr/ kuo gtgv co kpgm³4| v³4p³4u dk vpu¹i^awⁿ hAi c n³4²vgw o wpi¹u¹i gtgf o²p{g0 C r qrkkn¹ rgi h dd crr kuo gtgv c jgn|gv v¹4²rgvu²ku v¹p/ n¹v¹uc p²|pk o gi n¹vpk h¹kuo gtpk³4u|gj cuqpf¹cpk c| ki c|u¹i pcm o gi hrgn qtu¹i n¹rgv cmqvpk gl v c n¹rgv kf gi gp qtu¹i qm^a mcr qv¹/ xcn³4u|gj cuqpf¹cpk00 eum kn{gp rqpvcu r qrkknec fki p>|ku crr¹a p rgj gvc pci { dvgi u²i. Vtkcpq. i {»i {v¹u¹j q| j q|^a hji p0

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dcp pgo lgrgpvgwg p^anc c jci {qo^ap{qm»n xcn» gnu|cnf^au0 C jci {q/
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o ci {ct pgo|gv⁰ G| gn w ugnkpgm ugo ngj gv u|go gv jwp|plc.
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o cucv dwnq w c xkfi¹i^adqt¹Adcp. cpp{ktc ngxk¹u^a|qw. jqi { c hqn/
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²ng²t|²u²pgm nkqto^an¹u¹dcp j clrpf» c| kl¹À¹i qv o kpvi { u|gk/
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J cuqpn^v tⁱ{kxi qu^ai²i²cn km^Åkm p²m^Ån p²|vg c j^adqt^Å w²pk
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r^kpcv^k ugo n²v²mgf gw cddep. jqi {c| Å|jgn|gvdgp ku²rp^k hqi wpm
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ucl^aqu h²rc^vv c rj gv r²gi {u|gt ddp hqi cm c|v o gi < r²r^awcp
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p^Ån⁰

Co k|gp o²n² o gi i { | f²u²gn j²tf gwg. jqi {c o gi x^anq|qw
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j²kv o gi cmw^a u p²m^Åo M²u dd ku. co knt c i c|f²cu²ik x^kf²i n²¶²ku
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v²u. c n²kc²nc^f^au pgo ugi ¶⁰ C x²i|gv p{cmw²ntc vgw »r²o n²g²v u
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u^am c x²i|gwr⁰ G²tv n²4²gvng²o c o ci {ct kun²q²m²n jqi { p²gx²n/

lgp gm gi { c n e t c v g t u g d d . r q | k x c d d p g o | g f 2 n g v . c o g n { h e r k g u | k c m A f g n g v c d e n u t u u c r 0 J c c | A l l a 2 r r u n a t a p c m o a u q f k m p g o | g f 2 n f / d g p k f g p n g m k u 2 i g v n k h l g u l v g p k p g o w f w p m c m u q t p { k x a p x g u l x g x c i { w p n 0 Q r v o k o w u c c | g r u r k m p v u t c u l k p v j c v t v c r e p p e m n i w l k n 0 G i { c m e n q o o c n o 2 i c | v k u l } l g r p g m x g u l k j q i { o a n f i r i o u q m h A i { g t o g m u l A r g k n 0 - i { n i l c . j q i { r 2 p l A i { g l p m d a o w a v q u i { q t u c p t g p f d g l 3 w g m j q i { c m w w a r k u 2 t f g m f 2 u o 2 i c o g l i c | f c / u i k r e n q u u i n i 4 3 w k u p w 3 p / p . j q i { c o c i { c t 2 r p k c n e t a u r v 4 k c | c n e f a n q n e v . 2 r r g p c | 2 t v . o g t v w f o a t j k p p l # G i { k m o 2 n c w l c u l g t k p v c p p { k t c t g p f i j g v g v g p q r v o k u c . j q i { u l k p v c r w u l c 2 r g v t g n i r g u x q m t a c n r q l p k e d q r f q i u i n g t g u 2 u v u v k n A l o l a v 0

P g o | g v p x g n o w p n i l a p c m g i { k m g n h e r c f c v n i p v v e n k p v g v . j q i { g l v c | q r v o k o w u . o l p v a n c p f } n f u l g p r i v d p a m } g t v a w u i a / t q | v u u c n a t v t u c k d c 0 G | u l g t k p v e c | 2 r g v q z k i 2 p l g 0 U g t t g u a j c p c i { q d d = u l A m 2 i p g o x q n v o l p v c | 3 a u l g q o n i u w 3 p 0 G o r g i g k c t 2 i k p c i { i 3 4 3 4 q t x q u m v e p i v u v . c o g n { u l g t k p v c d g v i p g m c i { » i { w i u j q l g n u u q t d e p d k c n u f a u t c x c p u l A m 2 i g 0 U c o k a m c | g i { 2 p g m t . 2 t x 2 p { g u c p c i { n i 4 3 a u 2 i g m t g k u c e C o k c | g i { g u g o d e t g m d g p c | 2 r g v g f x 2 u 3 p d k c m q o . c | c n i 4 j c p i w a v q r v o k o w u c c p g o | g v g n p 2 r 0 J c c n i 4 / x 2 r g o 2 p { g p g t v x g u l c r g u l k o k o w u . c j g n | g v l c x i v u t c k a p { w n } o l p f g p g t h e u l i 2 u 2 u n A i 3 p 3 a g p c | c m u q w o w p n c t g p f n i k A n o g i x c p p g j g l x g 0 G | 2 t v v e l c c p p { k t c h a p v a p c m c d k c n u f } » 2 t | 2 u v . c o k p 2 m A n c | q t u a i t q o d » n o 2 i a v o g p g k j c l i r n a v u g o r e j g v p g 2 r i g p l 0

X k f i q u c p n i l c . j q i { c | c f q w n i 4 A n o 2 p { g m n i 4 3 w l q i q u w n p c m n i w l c p 2 m c r g u l k o k o w u u n i 4 p p { r g p p g c x 2 i | g v g u u 3 4 2 v p r i v u v k i c | q r p l 0 e M f u u 2 i i g n g r k u o g t g o . j q i { n i 4 p p { u k n g t t g n n g e u g i v g v c | c | g n i a t a u . c o g n { c o k t g o 2 p { v n g n v o w p n i p n e v n g t q p v e p k k i { g m u l k n 0 J k u l g p c u l p x g f 2 u g n p g m g d d n c o c i { c t l i 4 f l 2 d n v g t o 2 u l g k g t x g n v 4 g n c | g r i g f g v g p u 2 i 2 u c e u A i g f 2 u . o l p v c n i 4 f l g l g o n g p v e x c u u l c n c h 4 f a t l c . c v e l x i 0 E u c m r g m k u o g t g v g p u 2 i x c i { i { g p i g l g n g o n g m c j j q l . j q i { t q u l q t x q u n i p v c p g o | g v t g o 2 p { g l v v r l A m 2 u c | v c n i w 2 i d g g u 2 u d g j c l u q r i w n i C n i w 2 i d g g u 2 u c | q p d c p o 2 i c j e t c i p a n k u t q u l c d d v e p a e u c f } u j c g i { u l g t g t v x g p p g c p g o | g v r g m i 2 p . c r e k k f 2 | g w c r k f i k g t m o l p f g p v g r w u l i j c v p a p c n 0 e P g o n i w c o 2 i p g o | g v g v o n e n c o g n { r g u l k o k u c j c p i w a v d e p g o g m g f p k w f q w x q r p c 0 D k c m q o . o w p n c . » t k 2 u k g t h e u l i 2 u g m o x g m c m u q v / u q m g l c | g o g m g f 2 u g i { g f A r k A l c # V w f v c . j q i { u q n e v n g m u l g p / x g f p A p m f g j q i { u l g p x g f 2 u g l o n p g m 2 t v g n A m r g i { g p . o c i c u c d d e 2 n q m 2 u t g o 2 p { g m u l q r i a r v 3 d c u l g t g w g x q r p c n g v a n i c p l 0

Vgrlgu lqi i cn ^ancr ¶j cwc o gi. jqi { c rgi nř w²i dgglv dd jgn{/ |gdgp ugo vctv|qw c ěmwkn/dgo dgtgn⁰ nř⁴². pgo nřtqi vc uqj c go dgt³tuckpcm hřf dg c rguu|ko k|o wu0 ěFg ô h|k j q|^a ô ³p^a o ¶³ v³ utc ugo xci {qmnerj cw0

G| c o qpf cv o wcvlc. jqi { Mrgdgnudgti gv ku i {³/₄³/₄ v³ m c nř w²/ i gn0 C| ěqr vko kvci ²rr Āi { gnv p f³/₄w dqtqpi xc c oci {ct uqtu/ nř tf² ugnrp. o kvp c|qm c rgi lqdd oci {ctqm cnkm pgo |gv Ām ²u hcl³/ lwm ³uu|gu t ¶gw ²rgv² v ²rxg o gi /o gi tkcf vcm jc nř r|grv Āndg kf² | v³ m c l³/₄ rñj gv u² i gkv u cnkm nř⁴ ³/₄w vř³ldgp cnefvcm tgo ²p{ p² m Ān ku m Ā fgpk wf >n0 Mrgdgnudgti ku gm gtgpi c|qp c x² i |gu|gt u² i gp. co gn| c| w>ddk u^a |cf qndcp pgo |gv Āpm o kpf gp hpvqucdd uqtu/ f³/₄pv cnekl^a v gñj kd^a |vcw u tgvgi xg i qpfqn cttc. jqi { c nř⁴ gvng| v k ô o quv o^a t vř p wqn^a tc ô gñj kd^a |j cvlwn# Qr vko k|o wuc o guu|g gugw c rñj c ³/₄pdk cmqo w>n c ěo² i uqj cugo xqrv Āi { . jqi { xcncj qi { pg rgw xqrp^c i ugnř n|gu hku| >h² l^a w>n0 J^a p{u|qt go rgi gwg c pci { ěqr vko kvci. jqi { ulgv Āpm nrm o gtv j^a vjc nř⁴ dgp rñ^a t c uqtu w>n gpi gf² n|g|gw >tc# J qi { x² i Ān o² i ku rgi dgu dd o gi i | | f² ug u|gt kv jkv ²u d ¶|qw. c|v gnu uqtdcp vř⁴ v pgvk vcpw^a p{ckpcm nř⁴ u| ³/₄ p j gw0 C oci {ct o Ānd>n c|v qmxcvc nk jqi { pgo |gv Āpm c rgi u³/₄ v gdd jgn| |gdgp ku o gi vř n c ³/₄ po ci^a dcp c hrgo gmgf² u j g| u| Ām² i gu gt nrcr cf j cvcxp hqt^a u² v ô nř w² i dggv² utg vñ^a v plpeu qn0 |tf go gu rñj c mrgdgnudgti k nuperegkøpcm g|v c rñ p|gi gu rqp v^a v nř⁴ gngdd n ku u|go Āi {tg xgpp Āpn0

Mrgdgnudgti vř⁴ v pgu|go rñ rvg u|gt kv c| go dgt ku² i ²rgv² dgp xcp hgl n f² u ²u c| cmcm k xkuu| c² r ugnv n gnmkp vxg pci { l^a dcp o² i ku gn tg ²u hgr hř j crf v p n0 Wi {cpgl v vctvc ²tx² p{gupgm c oci {ct vř⁴ v pg/ rgo tg ku. c| |cn c m Ā vř pdu² i i gn jqi { o kngv tquu| uqtu wpm gñi i {cntcp t² u|gu|gw cmcm k xkuu| cgu² ugnldp0 G|v Āi { hgl|g v nk jqi { c oci {ct ěc nvcu| v >ř m pgo |gv ě0 U Āi { rñ vc. jqi { c oci {ctu^a i rgi pgo guggd. rñ hrgo gn dd lgnro wrcf qp u^a i ck c rñ v rñ guggdgp ²rr gp c pgo |gk u|gt gpeu² v gpe² i gm nqtu| cneklcp dqpvnu| vcm nř0 G² tv jkf gwg cpp {kc c jcp {cv> nqtu| cnqm vř⁴ v pgvk vcpw^a p{q|^a u² pcm u| Ām u² i² v c| kn|gp nqtu| cnqm lgnpu² i gkpm o gi hki |gñ u² d n u|gt gwg xqpc rñ^a tqpk c i {> i { ¶ w² u x² f gng| gñ^a t^a u u|cd^a n|ck0 G|v pgxg|g c ěpgo |gv vř⁴ v pgnm mtdqpevp^a pcm0 U ²rr gp g ěmtdqpevpi vcpw/ o^a p{q|^a uc o² tj gvgvpp dk cm cv ³/₄ p vř⁴ v rgnř dg0 J qi { g| pgo c vlc p qpk nqtu| cm u^a o^a t c nuput w^a n v gm² rvg xqrv jcpgo t² i k o gi / i | | f² ug. cppcm ki c|qn^a t c u|cdcf lqp hrgo rñ pgo kcvckd>n gi {km 3; 2; /d n u^a to c| > gu| o ghwcv^a u^a v ěC oci {ct hcl ²u c vř⁴ /m j > f ¶ u0 C oci {ctu^a i Ālcdd x^a p f q rñ uc. g x^a p f q rñ u k^a p /c ²u j cv^a tc0 I qpf q/

ncwk o kpf gp xcn»u|p u²i ign c Lwk²p/gi {gu²ngvdgp x²i|gw o wprfl²/
xcnncr euqrwdep cncwncmnl0

Mhglk jqi { c o ci {ct hcl ²ng²tg ²u hgn f²u²tg n²v p²rgugf²uk
v²p{gl xqrv f³pv dghqn^auucn< c j qphqi rnf²u ²u c v⁴3⁴m j »f²u⁰
C v⁴3⁴m wcrqo o^auf²n ²xu^a|cfc cncw gi { gwt»rck u|go rqpvd»n o /
xgrgvgp. o^au xkfi p²|gwgⁿ ²u xcn²u/gtn²4euk hghqi^auucn d²l» p²r
ki^a|qw rg dgpp²ngv. u gl c| wcrqo. eo kpv c tqo dqn» tq|ufc o²n{gp
gwg dg o ci^av c o ci {ct hcl cp{ci^apcm xcu^adc0 Mrgdgnudgti o^at
cmmqt u|Am²i gupgm vctvqc. jqi { o kpf gpnk cnk rqrkkn²xcn n²l^ap
hqi rcmu|pk vpw^ap{q|c c v⁴2²pgm gw0 O^at cmmqt c| xqrv c o gi/
i { | f²ug. jqi { plpeu v²gvgvpgdd xcnc k c| cj ku|vqtknwu
tcf knerk⁰ o wu^an co gn| cncr²dcp x²xg c l³k dg xcn» ²n v⁴2²uv xqrv jkxcwc
u|qni^apk pgo gr²i gf gw o gi c t³k² v²xncw² G| gugvdgp ku c|v
n²4gvgng. jqi { o kpf gpnkpgm cnk pgo|gk ²u pgo|gk²i k n²ft²ugnj gl
p{An e²jc pgo cnet c pci { ²u pgj²| rtqdr²o^am hgnw c per k rqrkkn²
ng²t hgn²vgu²i²xgn gnukmpk xci { c u|qekn²i k i { »i { v²t^ad»n n²vgu
²t²m ²u j² i { »i { u|gtgngv j q|pk xku|c ngm o gpplg c v⁴3⁴m wcrqo
nqtu|cni ki 0

C vx^addkncdcp c|qp gr²mgf km o²tv r wu|v²qwc nk cpp{kc c
v⁴3⁴m wcrqo c o ci {ct grgo gv u o²tv pgo v²wg n²4 gr n ugo cpp{kc
v²pntg r²o c u|gd. dqn^at. tqo^ap rctcu|u²i qv0 C| qnqv t²u|dgp qw
v²rlc. jqi { c| w»ddkcm h²af l²v c v⁴3⁴m^at v²rlgugp gr²4v²wg. c o ci {ct
h²af gv r g²ki eucm t²u|dgp²U o kpv c v²pi gthgp²m o²i x²lct kf gl²p ku
xku|qp{nci eugpf gu. fg cpp^an pci {qdd gt xgn v²4pgm o gi c rctvq
gnp^am²utc v²rl» j w²o qm ²l { c v⁴3⁴m wcrqo ku c| q|o^ap d²qfcmq
dgnugl²dgp xku|qp{nci n²x²udd² xqrv tqo dqn». o kpv c x²i gngp. cj qn
c| gngp^am²u ²u c r t²fc tgo²p{g hqn|vppqu euc²v²q|^autc k²i cwc ²u
kpi gtgng c jctekcu v⁴3⁴n²ngv0 Gi {²d qnqm o gngw c|qpdc p h ngi c|v
j q|c hgn c pci {qdd r wu|w²u²o ci {ct^a|c²v²pcm jqi { o ²l c dcm²pk
p²r gm co gn{gm o kpv{ r t²gf guk^anc xqncm c u|qni cu²itc. c v⁴3⁴m
j »f²udc dgrv²4 f vgm cffki c o ci {ct. co gn| c pci {j c v²o k r²v
o ci curv²t»n | wj cpv rg c j »f qm²i p{qo qt^adc. ^ancpf »cp gngp^anv u
3⁴3⁴m rtqi tco o^ax^a v²wg c v⁴3⁴m nk |²u²v0 ²l p g v²rp c x²i u qm cttc.
o²tv wcu²qwc gn qn{cp j²xgugp c v²kcpqk nqtu|cm Mrgdgnudgti lg c
ngeugi v²v u|p²gnmgn tcl|q²w fg c v⁴2²pgk jkxc²v²u»n gmcp{ctqf »
dcm²pk lgn²i e²rctcu|v²u²i i qp²qrc²v0 C v⁴3⁴nv n gnu|gp²gf gw
R wu|v²up^an eucm gi { xqrv pci {qdd< c o ci {ct hcl tgi gpgt^a» gtglg#
Mrgdgnudgti cmmqt h ngi cddep n²we gppgm c hcl k gt pgm gr wu|v²/
j c v²wp^ai^av jqi { c o ci {ctu^ai pcm c pci { x²txgu|v²u²i gngp²tg

ukngt²Av uk h²4f l²v hclrci ku vgnp²n(gu t²u dgp xku|cj>f²clpc|0 C|
 Crt²4f pgm²u c Fwp^apv² nngv²k t²u l²pgm c hgu|cdcf²cl> j^adqtAm w^ap
 Àd>n xcn> dgp²r gu²ug ul gtlpv c o ci {ct hgl nci pci {qdd vng²u|v
 o²p {gk n²4² vctv| kn0 C| gr wul wv h²4f gntg j q| vcm ul gtdgngv p²o g/
 vngv< c| kn(gp vng²cl²u g²gf o²p {g c| qpdcp ô ul gtlpv ô ë²Xi j^a| k
 p³4²p {i o ctfv= c ul gtdu²i xku|cul qtwv c F²rkf²ntg. c p²o gw²i c
 o ci c gnu|>tv^ai^adcp² u ul cncf q| qw^ai^adcp pgo wfqw ul^ao qwgx
 v²p {g| x² hgn fpl0 Gngpdp c ugnkv n pgo r^atvqn. o ci^atc j ci {qw.
 u v pgo tkn²p Æf 3/4 v o ci {ctu^ai gr²4v²4g c| Crt²4f gv²u c Fwp^ap/
 v²n0 G| c jcwcm cu p²ro qlicr²o o²i vctv u g²ndc xgw c v²4³4v n xcr/
 o knqt o gi ul^anv 3/4 u| gu vt²4vngv< c xqv j>f qm^ai c o ci {ct vt/
 lgu|ngf²u mcul kmu wrcl0 C pgqcs w²nc ec eqo o kulk/wn vgtgo vgw
 r²clwpf kwo qm r|c n²r ngv²k n²4² flcfcm cup jcvqn dg c o ci {ctu^ai0
 O ci {ct vng²gm ut²4²pgm U|gtgo. Xgt eg. Rq|ugi c²u Dgr²x^at/
 M t³4u o gi {²ndgp ku0 U|gtlv c o ci {ct^atcfv o^at gr²4v²4g xqpc c
 Ft^ax^apv²Av ku. j c gi { qnqu dgr qrknc grl²v wf v xqpc xgppk c|
 co gtlnek nk^apf qtn²upcm ëco gn| p²r guf²u²Avngv nk²4m²pv²gw n²v
 ul^a|cf qu gi²u ul²i gu k^ap {^ad>n u x²i vngp xgu²n(gu rlv tg vcl²clw
 Fg o²i cl { ku jcwcm cup p {qo wn gn tg c o ci {ct. j^aw²tdg ul q²lxc
 c v²4dk pgo |gw²i gngv ô c jqt^aw^ai qv ugo x²xg nk# C nvcu|v>lf m
 pgo |vg o lpf ki Àd>n²u Àd>nvcir tc wf qw^ampk0

Cdd>n jqi { c o ci {ct uqtu o^au pgo |vgnp²n^ancf dcp o quv/
 j^add. ngxqpc c n²4xgw|v²uv. co gn| ul gtlpv km²pm c vto²u gv
 gt k o gn² o lpf ki gn²4euk gp²ti k²nev ku ngm cf ci qrpwpm jqi { vx^add/
²tj gu²pm jqi { nvcu|v>lf k²nd>n hgn²o cf jcuwpm0 C| qtu^ai hgp/
^an²uc g|gt²xgu o²nc uq^ap o qpf jcvpk^ampf>cp hgp {gi gwg xqv u
 crki v pv ng gi {gvpp qn{cp ul^a|cf. co gn| ul^ao wpntc c r²v xci {
 pgo r²v n²tf²u²v hgn pg xgv²gw xqpc0 Grko gtl jqi { pgo n²4p { uqtu
 hqn²vq c ii>f pk c r wul v r²v tv n²4 fgp o lqv i { qutqo nqv x^atdcp
²pk0 O^au qtu^ai i {gto gng. cj qn c|^anco hppo ctf^auc vto²u vgu.
 3/4o ci^aw n²tv²gf . gl v c uqtuv v²ip tgwpgv²upgm²tg p²0 Mrgdn/
 dgti c|qpdcp. d^at o²n(gp^av²t|k c o ci {ct v²4v²pggo ë|qtf qp. hgn
 u²i gu ul qo qt^au^ai v. o²i ku nko qpf jcwcp ul²r u²i gv w²fn dgppg0
 Pgo vci fcl. jqi { h²4f²pm xj ctuctqm xqv²u o ctfv. o²i ku drul/
 h²o k²pcm vctv^a o²i c i qpf qrcqv ku. o lqv c Cm qu²u ftr^af cpcm
 kf gl²p tqul vnx^areul vq²mxqpc o gi c j c| c j gn²v0

T^ao wcv ettc ku. jqi {²r r gp^ampf> xgu²n(g|v²gw²i²pm hgl/
 rgu|v²gw nk ngn²pm²dp c|qnev c w²cl qp^ai qnev. co gn|gm x²i²Av ku
²rgvdp vctv²wcm dgpp²pm²0 Gi {²dn²pv ku crki n²r|grj gv gn qn{cu/
 hclv xgu|gf ggo . co gn|pgmnk t> d^an²u²tc cmcm wmpg r²wxqpc0

Mrgdgnudgti gni qpf qif u^a dcp c o ci {ct o Æw c nœvul v} lf m dcl^a tc< o kpf gplf rg hcl^v d>n cnef dgppg n²u|ngv0 iJ qi { o gpp{kg c nœvul v}/ lf m pgo|vgg xci {wpm c|v rgi kpn²dd cdd>n n²vj cvlwm jqi { c|qm c pci { u|gtgpeu² v²g²u²i gm co gn²gm o²n²gp dgx²u f vgm c n²4 wfcvdc. o kpf ki o^a u² o^a u² vto² u|gv gm xqncm Ai { jqi { jc c v²4 v²pgvd³4 eugn u|go n²ngv qmœv uv cne²pc vctœpk c r qrk²œkœk nœvul v} lf m m²4 p/d³4 pgo gk n gij|g| rgi cme²œ cu²dd cp{ci² rrgp c o ci {ct jkœtkœ rppp0 Tgwpgv²gu u|gpxgf²ugm go n²ng ut u²4 km³4 u|g u o²n²u²i gu vci knœ xcp gddgp c o gi^a mcr² u² dcp0 =

C vci knœ o gmgv c|qpdep xcp o^a u² kù \$< c o ci {ct cpp{kul qt xgw v²4 v²pgk² n²ngv hq²œ^a p rgnk œe² h²4 f v jqi { xœv² i i c n j q l |^a g f | / f³4 w c u|gpxgf²ugm j l 0 U g f | g w u² i g h q |^v p n g w d g n r g p g o e u c m c u|gpxgf²ugm j c p g o c | Æ l² u | Æ r g² u g m p g o | g v k u # C o c i { c t u² i j q l |^a / g f | f³4 w d e n u q t u² j q l . o g t v o² i c | Æ 0 p 0 l² p | n u t q n d e p k u d c l q m e n² u u|gtgpeu² v²g²u²i g m g n n g m g w m² f g p k 0 V² v r² v j e u q p n e w n k u o g i x k f / i² œ c 0 è P g o j² k d c x^a n v c | C h²4 f³4 p p g o | g k l f x^a c | C o g t k n² d > n d g i q / | q w c n² e 0 C d q v p k n u q m u|g t k p v o g i x c p c | c u c l^a u² i q u w œ l f q p / u² i c . j q i { p g f x g u² i g v w f v² t q p k c o k d n c |^v p c p {^a t k t g m g p j u² i d g p . u v c u l^a n² k f g l² p k u g r² r f g i² n 0 C o c i { c t h c l k u e u q f^a r v q u r g n k g p g t i² k n e v v² t q r v h g n u g | g m u g i² u² i² x g n^a v w f^a c² p k c x^a n² i q u k f n g v 0 X c i { g r p² | k c r e t w l c n² v . g l v c | c p p { k u l q t g i^a | q n v u o c i^a v o² i k u o k p f k i² u | g u l g f p k w f > n k u p³4 p { v u g u l² d g l w c o c i { c t u q t u 0 è O k p v v²4 v² p g m Æ p m u q t^a p c p p { k u l q t . o q u v k u g i^a | q n c m d g p p Æ p n g v . u q m x k^a i w p n e v . r x g n Æ p n g v n g² r² v m f g ô o k p v o^a t c p p { k u l q t ô o c l f e u c m g t t g n e r w p m o g i k p 0 G | g t² x o g i v p² q w d g p p Æ p n g v e t t c . j q i { o k n² p v n g m c o q u v j c u q t u q v v t p k² u n œ v u l v } lf n e v v²4 r p l 0 O q u v Æ t c j e u l p^a v x g u l Æ m c v²4 v² p g k r g e n² p g n 0

X^a nq|œvœp o gi i { | f²ug o c t c f v j q i { c o c i { c t v²4 v² p g r g o n g i v c i k n œ c d d t² u | g o² i k u c v²4³4 m o g i u l^a n² u x q n 0 C v²4³4 m p g o | g v g n v² u n w n Æ^a n e v v k r q t v r g o k p f g p g r g p² t v² m p² m Æ n < w² p c e u c m t q o² u v g p i g t u|gpxgf²u go n²ng o c t c f v 0 C o c i { c t u² i p c m q u l q v c n k c n g i { g v g p x² i | g v c | v c h e r f c v q v j q i { g l v c | g r g o k e u r^a u v h q n v p p q / u c p x² t g i x g h e n c t w | v u u c 0 F g o² i g l c r g i u l³4 p { d d² m² p { u g o w f^a c g t k p n g v x² i r g i o g i v²4 p k u t g o² p { g k p n g v o g i u l² Æ p v g p l 0 è C v²4³4 m j > f q n u² i k f g l² p g i { k m p g o | g f² m c o^a u k m w² p c | c n c v²4 j g v g v g p j k v g n u^a m q w c u² f d c . j q i { c n²4 g v n g l u|gtgpeu² ugdd n g u l u o g i² t k c v²4³4 m k i c r g t^a |^a u² v 0 U g p v Æ n j k u l k j q i { o q u v p g o h q i c p p { k k f g n g p k o k p v c m u t 0 U d k q p { q u t c x g u l k c j g n | g v g n p {³4 u g d d t g x^a n q / |^a u² v j c n q o q n { c p j q l |^a n² w p m c o w p n² j q l 0 V²4 v² p g k v e p w n^a p { c k / d > n n g u l t v g c o g i^a m c r² u² . j q i { g i² u l u² i g u . g f | g w p g o | g v x c i { w p m

vġ^av 2^{ipk} hqj wpm ogtv ëc| gi²u²i gu pgo|gv^{gm} cddcp m³4p³4pgm
 c dgvgi 2^u eugp^gx²u| p²r^{gm}v n jqi { o¹ ħ| gl^{gm} c nēvcu|v>ħ^{km} u^ħc
 crcw 3^{4u}gqo rēpcm xci { xku|chġln fpgm cffki c| gi²u²i gu p²r^{gm}
 o kpv c xku|cp{gugw ħc. c nēvcu|v>ħ^m w³p n²v|gtgu gt xgn ħġ/
 n fpgn⁰

F³pv hqpvqu³i³ ħ³pcm ħ³v³c. jqi { c ħ²r²ġf pgo|gk 2^t|2^u ġ² c
 pgo|gv uqtu³pcm k³p{ħ³k o²n». fg c|2^{tv} o gi xcn>u³ġcv» e²r^qnēv v|/
 |gp^{gm} nk co ġn^{gm} ġ²t²ug 2^{tf}ġ²dgp c lġrēpv^ġ 2^u ħq²vq² i {ctcrqf»
 o ci {ct 2^{ġvgt} o clf o q|i>u³ġcpk ħqj lc ġp^{gti} k³k⁰ J cpi q|v³c. jqi {
 c ħ³4³p c ġi uk³tcdd fqi qm n³4 ħ³cn» c| ġu o²p{gm p²m³Ĥk 2^{ġv}
 ô dġ²tw²g c pgo|gv^{gm} 2^{ġv}v ku⁰ Xku|qv c| c n³4 3^{4u}i. co ġn^{gm} u|ġ/
 o g ġn w ġu o²p{gm² o ci cu|vquwv e²r^qm ġdgi p^{gm} o kpfki 3⁴o ci c
 ħ³4³ w³ go ġm²pk uqj c ġn pgo crlcuqfjcvkm u v o kpfki gt ugddgp 2^t|k
 c o ci c o²n>u³i³v⁰ C| Ĥ e²n³ M²gd²gd²gi ħqj cm c|v c o gi 2^u fqi q|v
 nk v²ġu gi {ġ²t²udgp c| cm²qt k ħ²ġn u xġl^{gm} m²gm 2^u c pgo|gk n³4/
 x²ġo 2^p{ lqddkm ħ²r²x²ġ⁰ Ġ| c e²n³ c o ci {ct m³w³Ĥc o gi o ġp²v²ug
 2^u vx³ddk i {ctcr ħ³uc⁰ C jcv³tvēp ġj²gv u²i ġ²v. o ci³dcp tġlv
 m³w³Ĥc xq²v c| c r²pv. co ġn²ġp M²gd²gd²gi Ĥ Ctej ko ġ²ġn²pv ħ²d³v o gi/
 xġv²u c m³w³Ĥ³pcm pgo|gv²gv. o gi Ĥj qf³u: ħ²ġo ġm²f²u: qtu³i/
 2^rħ²u dġvqu³» u|gt²ġv ġw c| Ĥ o ci {ct tġ²to n²ġt xġl^{gm} u|»x²o c⁰ Ġ/v
 c u|»x²o qvo clf M²gd²gd²gi j cpi u|gt²ġk²

Wcnco c n³4 x²ġo 2^p{ lqddkm ħ²r²tg⁰ M²w²i vġ²p. jqi { c n³w³
 v³c ħqpvqu³i³ ħ³pcm w³fv c ô pgo nku t²u|dgp M²gd²gd²gi p^{gm} c V³4/
 v²p^{gm} k V³tuw²v 2^rp n²ġv²gv o n³4²ug ġ²ġf o²p{ġn²pv ô o³t
 n³4 xġv²p Ĥ c| 3^{4u}gqo ħ³u w³p o gi ġ²l²v ġ>f³u³ck⁰ Xq²ncm wi {cp
 qn²cp j cpi qm o²i o ci cu 2^{tv}gm k²i k n³4³ndgp ku. jqi { co k²qt c j³
 2ⁱ. ëpgo xcf³u|vpm r²q²un²tc³. co k c²p{kv c²etv lġrēpvēpk jqi {
 ġi {ġn²tg ħqpvqu²dd fqi vpm xcp. o kpv c m³w³Ĥ³x²cn d²ġn f²pk ogtv
 jku|gp c r²u|v 2^{ġv} o gi o ġp²v²ug ħ²tqi n²en²p. fg ġ|ġn u|go dgp o k²/
 fki i {ctcd²dp 2^u i {ctcd²dp ġj²gv² j cpi q²v j c²epk co ġn^{gm}
 c m³w³Ĥc 2^{ġv}gv u|gt²tg wcnc⁰ V³4dgp t³ġu o²n²gm c²tc c|
 ki c|²i²c. co kv c|w³p M²gd²gd²gi j c²vm cu ci k²ē²lc p²r²u|gt u³/
 v²w² p²m²ġm ġi {ġn²tg p²peu ġj²gv u²i Ĥm c j²q²k q²v²ku v²tdgp x²cn»
 v²tl²u|n²f²utg. vġ³v c o ci cu²i qm ħ²r² n²gm v³4p²ġm j c ġi³nc²p
 o gi c²etv²pm o c²cf²pk c p²r²gm v²pi ġ²dgp⁰ Ġi {km lġ²ġu ħ³»pm c|v ħġ/
 v²ġv². jqi { j c o gi euq²m²v qtu³i³pcm c m³w³Ĥ³lc ku ġncv²{vn
 cm²qt c x²ġv ġi {Ĥ³ ġncv²{vn» pgo|gk ħ²ġm uqj cugo ħqj lc w³pk xku|c/
 u|gt²pk c|v co kv ġi { u|gt²peu²v²p pgo|ġ²m d p³4u n³4p²{gm u²i ġ
 2^u c v³4²p²ġo p²m ġi { x²i|ġv² ħ²tf w²v v Ĥ²m ġ²x²u⁰ C| ġi {km p²r²/
 r² o³t 3;420 qm>dg² :0³p ġ²v c n³4x²ġv² uqtq²v⁰ C o ci {ct kq/

fcmqo pcm c o ci {ct mwm^Àa pcm o c Àld>n qn{cp gu tgp f r qrkknk
 lgrpv u²i g xcp. o kp v co kn{gp xqiv c o Àv u^a|cf o^auqf km pgi {gf²/
 dgp0 U²ej gp{k nqt^adcp. c o ci {ct tghqto r qrkknk u^atp{dqv^vu^apcm
 kf gl²p c o ci {ct kqfcmqo²u o ci {ct mwm^Àtc xqncm c² rgtgngiv k
 c o ci {ctu^ai r qrkknk ¾pwfcv^apcm²u hq²nup{u^ai^apcm c jctc^au
 k^apv 0 0 0 Pci {o ci {ctqtu^ai t^ar qrkknk nqjgv u²i cmqt rgu. jc
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 o ctf c u²rgudd ngtgvm nk¾n²u²tg0 Rqpvcup c| c u²»co. co g/
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 t²ik kic|u²ic. co gn{gv o^at hvcwmqtk lgi{|gvkdgp r²if^amcn kmu|t^am0
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 ègtfgvk. jqi { Àu|gt u²i²xgn xku|ctku|vqc xqpc c|v c o quv o^at
 u²rguddn¾¾ n¾¾x²ngo²p{v co gn{gv u^ao^atc o gi nngw p{gtpk0
 D¾æugp lgi{|gv o gi G¾¾¾ L>|ugh< è-| gu|o²m^ancn ugnko jcv
 jcv nqt^vtuckc0 Eucm cnk c|qp gu|o²ngv. o gn{gm o kp v c pcr uwi ctk
^anci^apucp gngtlfpgm gi { jgn{tg wflc n¾¾rqpvcu|epk ô c| jcv.
 c| i {Àv0 C nqgi²u²i²gudd o ci pcm kf tg xcp u|Àm²i g. o lgn w ncn/
 u|qnev jclv u c o gl p eucm c|v ctey c|vwm o k o^at t²i gp xgxg xqn0
 C o ci xgv²uv dk qp{qu hqni o gi n¾¾p{f²vgw c| c xkc. co gn{km
²rrgp c| ¾u|gqo r²u kf gl²p c| À0 p0 ur gpi rgtk o wu n¾¾Àn hgn²pi qn0
 /Ur gpi rgtpgm cmqt uqnev qkcuq w n¾¾{xg c p{wi cv cmup{^at>n fkc/
 vqu xkc/^vo^ax^a excwc c n²tf²u< x^allqp c uqnev fleu f²vgw p{wi cv k
 mwm^Àtc pgo²tgw g o gi c dwf²ut. xci { nqic²dd c nuuÀ uqtxc^autcÀ
 G|gn nreucv dcp hgxgv f¾w c vx^addk n²tf²u ku< x^allqp gi {^anc/
 r²p nk²gv fpgn²c hqo cdd mwm^Àtc o ci cu^ar q²uk n¾¾u²igk u pgo
 nppg/g e²rtcxg|gv dd c| gttg hqtf²q w ¾u|gi gngv t^aruccd e²nqm
 dk vqf²u²tc n¾¾n²pkÀ Mrgdnudgti gi {kng xqiv c|qncm cnkm c nq/
 pci {qdd gt²m{gn xgv²m hgn c jcteqv c| Àhlc mwm^ÀteuÀi gvi u²i
 gmgp0 Gn cf^auv ku vctqv c| Qtu^ai qu Pgo|gk Mwddep g^vo^at>f0
 C ur gpi rgtk o wuv^anci^adcp c| gr²t|gw. gn|gi²p{gf gw Gw>rc dgv/
 i gu ngt²n{jw²o|^auc gi {km lgrpu²i gn²p^v nq|ngc. c j|c k mwm^À/
 fghvk o wut>n r gfk. co gn{km gn|gi²p{gf²uApnngn nreucv dcp c
 mwm^Àv gi {u|gt gp nzwupcm o kp u²vgw. c|v vctqvc. jqi { gl c
 ur gpi rgtk nk²dt^apf wmf²i pcm c nqjgv nq nq|f gvgi guggd hqto^alc0 U gi {/
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 hqi qwc mwm^Àc^ar q²uc vt²p0

! tfnggu. jqi { c mwmÀc hqvqu^ai^apcm jcpuÀn|q^au^axcn ner/
 euqr^vdcp tgpfgu u|qni^au^awn gn²t gp c oci {ct v⁴v²pgk r²rf^am o gmgw
 d u²i dgp jqi hgn xkfi v⁴v²pgk dk qp {v²nqncv ku0 ©i { vcr²nc. jqi { c|
 go dgtk²i uqni²rg k^ap {dcp ngtgugv o^at dqrf qi u^ai^av nkr²>d^aiv m^av³p/
 d³/₄ ^amco dgtgpf gl²ugngv. v²tucfcm k tgpul gtgngv u c ngi v⁴ldu³/₄
 euc^afqw0 Eucm c wf^auv xku^agn²u c xkfi qu^ai^aqv ngtgu pgo |vgm
 o ctef^vcm c nk^adt^apf wf^au^awn o gpvugm^c ëGddgp c u|gpv ngtgu²udgp.
 mwc^vudcp. c o kpf gpi²i vkn²kpcm ^aj {v²cvqu h^atn²u²u²dgp c| go dgtk/
 u²i pgo euc^afqw uqj c0 Mrgdngdgti x²rgo²p {g u|gtkpv c mwmÀc
 gi {^anci²p pgo h²p { |²u u pgo n²fx . i {cmq²rcv²cp go detgm n²r/
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 o kpf gp²Aw ²rgvg hncu^av i {>| {v² hglrgu^a0 Xgrg u|go dgp c h²k²ck
 jcv²qo ugo wf^ancpf^acp dqrf qi wpl0 ëNgi gv0 v²lc ô jqi { c pcrk
 rqrk²ncp ki c| c| c dkuo ctenk o qpf^au. jqi { c jcv²qo o gi gn |k
 c lqi qv= fg xkfi v⁴v²pgm k v²xrv^ad^an p²|xg c| gugo²p {gngv gi²u|
 xkfi qu. jqi { c jcv²qo ^ancpf^acp pgo gn |ko gi c o xgm²i gv0

C xkfi v⁴v²pgm k r²rf^an²tv gi²u|gp c| »nqt²i o gi { xku^a c0 Vcpw/
 o^ap {ck crrl^ap o gi i { | f²u²gn jkf gk ëjqi { xcrcv kpv c t>o ck xkfi/
 dktqfcmo dwn^auc w²p c p²rx^apf qtn^au dqt|cm ckd^an vi {cp^ai { c
 xkfi j^adqt^a w²p c o qucpk ic|fcu^aik xkfi j^adqt^ad^an ku eucm c mwmÀc
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 jqi { o²i jcr²qm^a pgo |vgm²u v²tucfcm cm ku ^al²rgvg n²rgm v rg0
 C| ^av²u² ²m²p {u|gt gtgl²xgn jkf gk jqi { c mwmÀc c l³x pgm gi {gv
 n²gp dk^aqu |^ani c0 T^ao wcv Qtqu^aqtu^ai r²rf^al^atc ku. o gn² c j^adqt^a
 w²p eucm qw wf^avc c r²d^av o gi xgypk cjqn mwmÀ^alc xku^aqp {rci qucp
 o ci cucddtgpf xqn0 P {wi cvqp ô h n²i c denk ^amco qntc e²n²| ô cjqn
 o ci cucddtgpf mwmÀ^amen ngt^arv u|go dg. grkgu^avgw c euc^v0 U c|
 qtqu^a qtqf qz gi {j^a| ku c²tv o qpfqw eu f³/₄ o gtv l>h²to^ap o kpf gp
 l³/₄kgf gm²v dcd^at h²p { ²u r c|ctn^a r qo r c m^au u²i g²kg n³/₄n³/₄vg. o k/
 ugo v⁴fx²p c d²gn o gi ki c|wf^auuc³ ²u c mwmw^aru gt nngt0 O gpv n
 o xngedd gi { pgo |gv cpw^an gt ugdd dgtqn^auc n²gv c v²ldk p²rtg
 u cpw^an wf^acvqucddcp h²to^an²cv²c c ucl^av uqtu^a0 C| kn²gp o ci cucdd/
 tgpf pgo |gv vt^au|gt dddp. jcl²n²np {cd²dp. c xku^aqp {qnev rqpqucp
 o²n²gi grxg qu^avc dg ²ng²v ukngtugddgp wf ic|f^am²fpk u gn dd/
 w>dd vkn²p²n²tg v²u|gtv c p²rgm eucif²l^adcp0 C j^adqt^a w²pk ugp {/
 xgf²udgp. c p {qo qt^au^ai n²kgvng²v²dgp vkn²u^au^ax^a rgw cv qu h²t^a/
 dcp x²i ^an ku o clf c|qm c pgo |vgm o ctef^apcm hgn^a co gn²gm c mwmÀ
 t^apcm gl^v c uqtuf³/₄v u|gtgr²v o gi²tvxg cpcm i {>| {v² gtgl²v c p²r/
 n³/₄n³/₄i² t²gf n²dgp hgn wf²l^am jcu^ap^apl0 Dk qp {qu. jqi { c| go dgtk/
 u²i gv n²vcnk² o c hgp {gi gk fg c mwmÀc gtgl²dgp cfxc xcp c o gpg/

mãu Àlc ku0 Cffki plpeu jcp{cvf u. co ¶i c mwwãrku gpgti k'm uqt/ xcfpk pgo ng|fvgn0 C jcp{cv» nqtqndcp ô ¶ilc ô gi{gu go dgtgm gi²u|gp l>j ku|go gp. ¾|v¾|u|gt gp ²rrgp c|qnpem c v²p{g|npgm o gppgm pgnk co gn{gm c jcp{cvf u vqã ddvgtlgf²u²pgm iã vlc0 O kp v jqi{ rfgki c mwwã^adcp tglrk c |ã nqic c ppm jqi{ o²i c ngi pci{qdd nevul v>lf m wã p ku À ²rgv ²u À hgn f²u uctlfjcv. c|²tv c jcp{cv» nqtqm u| ãm²i n²rrgp mwwãtgmppgum ²u cnknp gm ngmã p c jcp{cv» nqtqm u| gmgo g ki c|ã dcp gt v xgu. c|qm c xkã i v¾v²pggo vcpã^aic u| gtpvgi {gpgug tqj co tc kpf wpcmc o xgm²i i gnu|go dgp0

Gddgp c v²xvcdp mã²ngi gu tgrkghv ncr c o^at go nfwg e²mkv / |²u. co gn{ o ci cu|vq. fg o²i ku nkxjgv 0 Pgo èj qm k crt>/eugrt e²nqunc xqmì c|. co gn{gn c pgo|gv u>x^ati^av gi{ go gmgf gwdd ²ngvqto c wã p nkgf i ¶gpk rt>d^anc0 Rkncp{kc i ì pci{u|gt ddgv c nkxjgv m c o gi xcn>¶lj cv»m n¾¾w jcu|vcp ngtgup²pm 0 U ki c|ã / dcp x²xg dgppghj ncnvkm o kpf gp. c xkã i qp o kpf gp# G| c e²n< ì O c / i{ctqtu|ã iqv Gw>r c g t²u|²dgp nko ci cu»cp c ngi o xgmdd^amco o^ai ngm vppãpn0 G| c| Æ0 p0 emwãt h¾p{ì. co gn{gv nfv u|go rqpvd»n ngm o gi xkã u^arpwpo Gi {hgn n cdu|qnãv u|go rqpvd»n c| ¾¾m o ci {ct mwwãc u|go u|¾²d n o^auhgn n xku|qp{nci qucp. c n¾p{g| mwwã^am u| ¶xqpcã v ku hki {ggo dg x²xg0

C v²v pgo nkugdd. o kp v c o ci {ct hgn³o cf^au0 G| v eum c mwwãc ugi ¶u²xgn ngj gv gn nfu| ¶gpk0 Mrgdnudgti o wpnf c j ¶xlc hgn c o ci {ct ¶>v. c o ci {ct o x²u|v. c o ci {ct wf>uv. c o ci {ct rwdnkuv v jqi{ c n¾x²ngo ²p{ hgn^a|ã u^axcn ugi ¶u²m c pgo|gvv ¾po ciã pcm o gi / vrf n^adcp. c| Æ e²ngm ²u gu|o ²p{gm dk vqu hgnko gt²u²dgp0 J kf gv / pkã ngm jqi{ c pgo|gv o xgn f²uk v²tgp Æ nqtu|cm gn w^an0 U co kp v c ZK0 u^a|cf grgl²p rqnknek hmgpf Æ uãpm u| gmgo k o gi Æ j qf^au cn ng|f f¾w. Æ i { ngm o quv ku c| cpp{kc u>x^ati qw rqnknek o gi gt u¾²v u| gmgo k tgpckucpeg/u|cn dgxg|gvk0 Cmmqt. c tghqto nqtu|cndcp eum gi{ xqnv c e²n< o gi vgtgo vpk c| Æ o ci {ct o xgn f²u0 O c g| c hgn / dfcv ngw u< ì Gi {hgn n hpp ngm vtcvwpm ²u i {ctr ¶cpwpm o^auhgn n dg Mg m xlpãpm c o ci {ct pgo|gvgo p²n u|²ngudd t²vi gkdg0 Uã{qucp x²ngl p²m c o ci {ct mwwãc ²tfngk gmp. cnk g nfv hgnfcv. c wf/q/ o^ap{ o xgfv ²u c wf qo^ap{vgtgu|v²u n¾¾w gmgp²gv cnetpc nq/ utwã ipk0

U cnf to gmqtc vci²f k^v lgrpv ku Vtkpqp. c jgn|gv gi{ã ncf p pgo tgo ²p{vrgp0 Vtkpqpv Oqj^aeu j| u|qm³m jcuqpr¶p k0 Mwwã t^arku u|go rqpvd»n c jcuqprv pgo^amlc o gi jgn²v0 Oqj^aeu wã p u| ¶p / o ci {ct vgtãrgvm ngtãngm v¾¾m ki c cf u c|ã mco u|gtxgk c o ci {ct o xgm²i i gn gi{ãv nfv{vrgppm xqncm c pgo|gvk²i gm ncm Hgn

xk²ng²u Gtf²n(dg jÀ)»fpk h⁴cfxc c u|¹po ci{ct Fwp^apv^Àu²u c|
 Crt⁴f gv⁰ Oquv h⁴tf¹wc^a m c jgn|gv⁰ C| ki c|. jqi{ m^ww^arku u|go/
 rqpvdⁿ o²tjgv^wgp xgu|v^ui gngv u|gpxgf^vÀpⁿ0 Fg Vtkpqp. gl c
 tgv^wpgvu n^vcvu^t»hc. o²i ku jqlqw xc^o k^v c|^a m^o k h^Ài gv^wp/
 u²i gv⁰ Kc|. jqi{ gl c h^Ài gv^wpu²i r^qk^knek n^vqpck ic|fcuⁱk v^tgp
 kⁿidd eum gm²rvk o gtv jku|gp n^hku|wc. h⁴i {xgtv^wgp^Àn^a m^wpm c|
 gm^wp^Àm u|gtx|ngf m u|qtqu i{ t l²dgp⁰ M^ww^arku v²tg^p c|qpdep
 n²u²i v^wgp^Àn h^Ài gv^wpgm o c^tcf w^pm u o²»f wⁿdep xcp gl v o gi/
 h⁴gn gp n^hku|p^a r^h0 G vⁿkp^vgdgp lqdd c jgn|gv. o k^v r^h0 cⁿt c
 Dcej/n^htu|cndep⁰ Cm^ht Oci{ctqtu^ai c|³u|dk^tqfcm^o pcm cdu|qn^À
 o²»fqp ki c|cv^w v^tqo^ap{c xqⁿ0 Pgo u²»jcv^w d^grc c ucl^v uqt/
 u²dc⁰ Mk xq^v u|qⁿ^a n^vxc n^h2²tr^gk p{Àⁿpv c v^hi gv²i v^wgp qu^t^am
 o k^vu|v^gm rt²d^a m^hu^a ucl^pn⁰ Pgo xq^v o gi c|³pu^gi²n^h r^hi gv²i g
 ugo C v^tkp^qk Oci{ctqtu^ai d^ep c|^a m^o k u|gtx|gv^v o²i ku o k o c/
 i v^wmk^a p{¹mw^uf qⁿi q|j c^wpmc uqtu n^gtgn² p^gmo gi h⁴tf¹u²p⁰

Jc²rp^k cⁿctw^pm u m^h4³4^gp j c| g^rxg^u|v^wgv ku xku|c cⁿctl^wm
 u|gtgl pk eum gi{ À^qp l^atj c^wpn^v c|qp. co gn{ c m^ww^atc o ci c^urv^{ck}
 h⁴r² xgl gv⁰ Gu h⁴rc^fc^wpm jqi{ m^ww^arku 3/4^hu²i À^pngv xku|qp^vi/
 u²i qu o À^wpn^{pc}m gl v c r^hi ft^ai^add jci{c^v2ⁿv. c u|gdd l³k u²o^atc
 u²t^vw^wgp^Àn^a v o g^wu^Àn⁰ M^vqpck n^hgi {xgt|gw²i À^pn^lgp o k^fgp o gi/
 o c^tcf v gt p^hgv g e²n u|qⁿ^a r^vdc^a n^hh² cv^lwⁿ0 D^k v^u|^hcp^wm n^gm c
 eu^qnc qtu^ai d^ep. jqi{ c o ci{ct m^ww^atc. co gn{ c|gn w v⁴dd o k^v
 j À^u|o k^h» go dgt n^h4³4^v qu|n^w o gi. xgu|v^ui p²m^Àn^a u²»nl^qp c
 o gi o c^tcf v p{q^ro k^h»tc⁰ M^vu²i v^wgp. jqi{ gl pgo n^h4³4^p{ h⁴rc^fc⁰
 Fg x^anc^pw^pm n^gm o gtv c|²rv^t n xcp u²»0 M^hgd^gud^gti o gi i{| f²u/
 n²pv j^kf^gv^g. jqi{ c| À^h n^htu|cndep c|^a m^o k r²v^hgl. c|³4^a m^u»u²i jql
 m^h4³4^p lqi e^ho n^gm^v èC| Àⁿqt pgo|gv^hkgm 3/4^o ci vⁿdep n^gm n^gt^gup^k
 c|qnev c d^gu²t^v n^gngv. co gn{gm r²v^Àngm h⁴ppo c^tcf^a u^wpn^{cm}
 gⁿh⁴reuk lqi e^ho g⁰ Ogi n^gm o w^vw^pm c pci{ pgo|gv^hngm c xk^hi
 n^h4^x2^{rgo}2^p{2^pgm jqi{ pci{qdd c o ci{ct pgo|gv d^gu²t^vng. o k^v
 c d^gpp^Àngv n^h4^p{gl²u c o k t^qx^a u^wpn^{tc} pci i^a v^w p²r^{gn}2⁰ G^{pp}gm
 r^gki c o x^gv p{wⁱcv u|go²d^p c h⁴no²t lg c o x^gm²i⁰ O k^fgp
 gt^g2^xgn rt²d^arlc c n^hgn{g^mgn d^kqp{v^{rc}pu²i c n m^h4^f.²t^v n^h2^{ng}v^k/
 d^gp o gi|cxctv pgo|gv^v o gi i{|pk ctt²n jqi{ c n^hgi {xgt|gw²u^ai
 ki c|k j^qx²f^gm k v²te^alc c n^h4^qmc^vu^À{k v²tec⁰ C| cfqw n^h4^Àn⁰
 o²p{gm n^h4³4^v g^u uqt^dep c u|g^mgo. c o x^gnf²u h⁴i {xgt^gk d^k v^u|^v
 j^{cv}^am eum h⁴ppo c^tcf^a u^wpn^v c|g^mgn d^kqp{^hh² cv^lwⁿ dg. jqi{ gt u.
²rv^hr^gu. ²rp^k cⁿct» p²r xci{v^pm co gn{gn r²rf^a v^{rc} ki c|u²i v^{rc}p/
 u²i v⁴v²p⁰ U^Àn^{qu} jgn|gv^Àpm eum cⁿqt gp{j^Àgv ô o k^fki c|
 cfqw r^qk^knek xku|qp{qnev vⁿkp^vg ô j c| go dgt^h2ⁱ uqt^uv k^v2|

j cvcm cm wf cv dc ku hgn| k>fkm c| c o gi i | | f²u. jqi { c| go dgtk
o xgn f²u pci { o wpm¹a dcp Gwt>rc ngrv²p p²m¹4 j gvgvpgm
xci { wpm u jqi { r wu| wfw wpmnen o cic c| go dgtk²i xgu| vpgp0 èC pgo /
| gv ô n¹lc ô o gn|pgm qn|cp n¹4w k xqncm o kp v Rgv hk²u O cf^aej (00
qn|cp vto²u| gwfw>uck o kp v d^at» G³4x³4u Nqt^a pf (00 c| c pgo | gv c
p²r gm pci { eucn¹f¹a dcp p²m¹4 j gvgvpgp vci. c O kp f gpj cw> xk¹i /
vgtx²dgp u| ãm²i u| gt grgo. co gn|gv | { gnkr qtpk pgo rgw xqpc u| c/
dcf. o gn|pgm i { gpi v²ug u| gi²p { gdd² vgu| k c| go dgtk²i u| gngo k²rg/
v²u U c ekmgm j qu| ã uqt^adcp. c dgu²f gm²u gn cf^auqm v²o gi²xgn
nrcr^alc dgrg lftcf j cvcvcpwn c n¹4 x²rgo²p { dg c o cic pci { k| c| /
u¹a v. co gn|pgm j k f gv²ug e²d^ad>n n¹4²pm m¹rf gv gw< c pci { nrcv| /
t>hc w²p eucm o xgn f²u ã pm o gi t|²ug²u o kp f gp nlcup { gu²i gp
hgn¹go gmgf . pci { ct^ap { ã rpf ã gv u vx^a ddhlgul v²ug vctj cv²rgv
dgp dgp p ã p ngv0

Pgo vknqrlc. jqi { g| ^arf q| cvqnev n¹k^ap0 èEucm c| c u| gi²p { u²i
pg xqpcì ô u>j clv hgn gi { cmcrqo o cn pgo eucm c u| qek^a rku u| gi²p { /
u²i tg i qpf qrc. jcpgo c mww^a rku cmq^v uqmpcm uqmul qt vcm cv lgn
n¹4 u| gi²p { u²i tg0 Vwflc. jqi { c v rg o gi kp f qw j cf¹a tcy q| ku r²p| .
r²p|²u ku²v r²p| ngn0 Vlu| v²dcp xcp c vlc p qpk qtu^ai i c| fcu¹ik
²rg^vpgm ngi { gvgp rgtqo r¹u xcr0 C| v ku xk¹i qucp r¹lc. jqi { c pci {
p { qo qt ã r¹i dcp c n¹4 x²rgo²p { j clro qu rgu| c mww^a rku k¹i²p { gngv
c mzw| tqxcdc vppk0 Fg d^awcp u| go dggu| ã n g| gn c hrtq¹a ucn<
^arf q| pk ngn# U cpcm ku o gi xcp c o cic n¹4 p u|²r u²ig. j c gi { p²r
c o cic mww^a tlp^v o²p { gkv pgo hgn¹ n lpi { gp. ^arf q| cv²u gt hgu| v²u
p²m¹ ã nrc lc. jcpgo xgtgl^v ngugp o gi f qi q| km² tv¹ ã n0 *Cwqntcvc
wcmqf>» m l²m xgnv p²r gm n¹4³4w ku r¹v u| v gvgm wf qo^a p { qu²u o x²/
u| gk kp^v | gvngv fg g| gm i { ³4 r¹ tvrgp cncr v²uqm xqncm u eucnj co ct
gir wu| wncm o gtv pgo xqncm c pgo | gv n¹4 wf cv²dcp rgi qti qp { q| xc0
Eucm c| c wf qo^a p { qu^ai² rgv r¹rgu. o gn| gt kv c pgo | gvgm cdd>n c|
^arf q| cv¹u| o gi i | | f²u²d n u| v¹lc. jqi { c p²r gm xk¹i v¹4^v p gm k
lqi quw¹ic cdcep tglrkm wfp cmg jcu| qppen n¹4 tgo n¹4 pk c| go dg/
tk²i j crf^a u^a p c o xgn f²u ã u^a p0

l kpvgp ã pm ngn t³4 k f gp c mgdgnudgti k mww^a r qrknc xku qp^a v
c tgx¹ l²u i qpf qrcv j | 0 C j ã u| cu² xgm ggl²p c o^a t x^a | qrv nrcvknw
^ancr qvnev pgo nku t²u| dgp c| qnq| w. jqi { c v² tucf cmqo dcp hgu| ã n
pcelqperkuc² t²u. co gn| hqn| vqp tqddcp^a ucn hgp { gi gv gw ugj qi { cp
ugo xqrv³4 u| ggi { g| vjv gv c tg^a rku rj gv u²i gmmgn0 C| gnu pgo | gv
i { r¹ugp o²i u| kpvg p { vncp^a mv gi { o^a ucn u| go dgp c hqtctf cmqo²u
c| gmphqtctf cmqo 0 C pci { eucr^a u ³4 n¹4 u¹ v¹ d>n pgo rj gv gw gi { /
n¹4 pp { gp hgn¹ u^a f pl0 Xqncm cnkm pgo wf vcm x^a tpk u n¹4 u| gp^a mcm

d^a to kŋgp nŋw²i dggugw vgwg. co gnŋ c d³4v²pclwv hgr cwcpvj cvlc. Pgo i qpfqm²m o gi. ô pgo ku pci {qp i qpfqm²vcm ô jqi { c vq²ru o gt²u²i vq²ru nqenŋ|cwen l^at u cnk o kpfgpv p{gtpk cnet. o kpfgpv gn ku xgu²y gw0 C| c èn²4²r wcu²/r qrk²kne. co gnŋpgm gi {kŋ t²u²g xqnv c mgdgnudgti k mwn²Ar qrk²kne ku. g| gn u²go dgp ³4| v²p³4v²g²u wf cvqucp gnwcu²ŋq²w o kpfgp qnŋcp xcno gt u²igv. co gnŋ nqenŋtc vj gw²g xqpc c| co Ai {ku h²4²v²g gupf o ci {ct^a mco k r²v²0 J ku²gp o²i ku eucm c euqpc qtu^ai xqnv c| c rqp²v co gnŋgp c o ci {ct^a vci cf^au r²d^av o gi xg²y gw²# C nupul qrf^aek» pci {qp pgj²| ²u dqp{qmw² c pci { v²o gi gm gn w ciki p²r u²gt u²ŋj gv hgrcf cvq² x^ancnc² ³4u²g nngw j cpi qpk c rj gw²i guv. c| kf u²gt v c| ³4³m pgo | gk^a m qmncŋ0 Kŋgp ²tvrgo dgp ngm hgrŋi pwpm Mrgdgnudgti pgm uqnev i Āp{qnv rctcf qzqpl^av ku c mwnw²ŋv t^a»n co gnŋ^a v o ppgw²rgi c èj qp²x²f gm g²v x^ancnc0 U²go²dg x^ai v²m j qi { n²4| xgn ²u xqpcŋ»xcn cnetlc O ci {ct/ qtu^ai qv xku²ŋ chqi rncpk# Mrgdgnudgti o²n²u²i cn x^arcu² qnc² è0 kŋgp u^apcm cu dg^a n²ŋ²v²# Fg ki gpk c wf^au gtgl²xgn f³pi gvlĀm c vlcppqk d³4v²pclwv ²u c u²gng² u²cx^axcn j kfgvlĀm c xk²i pgo | gv²gpm c o ci {ct ki c| u²i qv0 Mrgdgnudgti c o ci c o»fl^ap. c o ci c gu²ŋ²gkxgn nŋu²ŋ²gw gn c tx²ŋ²kv cddcp c o gi i { | f²udgp. j qi { c| gi {gw²gp rj gw²i gu Āq²p l^at0 Vlcppq rrgo²p{gu²i g wi {cplu u²gtk²v eucm g| v c| gi { wcvhgr²v²g gneurf^a mnc²u vqtrcu² qmncŋ^a tj cvw²pp^a vppk0

O gi i { | f²u²dgp g| cmeŋqo on ku. o kpv cpp{k o^au gugvdgp. c o ci {ct v²4²pgrgo vpw²ŋick gt u²ŋw²m o gi0 Mrgdgnudgti v²4/ v²pgvĀnd n xk²i qucp. o kpfgp nŋv²g²u² p²mĀn c| v qrk²cvc nk j qi { xci { o gi vct²wm rgi ft^ai^add pgo | gk^a ³4³m²i Āp²ngv c mwn²Ā^a pnev xci { v²4³pgm dgppĀp²ngv c| ³4^am» pgo | gvm uq^ad»ŋ0 Fg pgo u²cdcf. pgo rj gv gr w²ŋ w²pwpm o gtv dk qp{qut^a xj gv. j qi { c| gn | pgo | gf²ngm hrgo gn r²ŋ^al^atc o clf o k ku c rgi pgj gl gdd n²4Ā² o²p{gm gng²tg o gi vgu²Ām c o ci v²n²ŋ0 èG| c ngo²p{ o gi r²»d^a n² cv²uq²ncm cŋ xgvw p²r uqj cugo o wcu²vqvc gn j qi { o xgn f²u²/ pgm hgrgu² v²u²tv pci { gt hgu²ŋ²ug²ngv vgi {gp ²u^a r²q| cvqnev j q| | qp. o cmu²v²uqnev go gr²gp ²u² kp²| o²p{gngv r²ŋv²ŋ²gp u d^at g²ngv. o kpv gi {gvgo g²ngv ²u² n²4{ x²v tclpnev v²ddu² ³4 gr w²ŋ²ŋ²q²m fg o kpfcpp{k| qt Ālcnev cmu²q²v r»v²ŋ²u²wpntc0 G| c v²4²pgv n²4gr²gw u²i Āp²m Vlcppppcn ugo x^anq| qw o gi0 C| v c mwn²Ā^av. co gnŋ hppp/ vctv²w dgppĀp²ngv c o Āndcp. pgo | gk^a u²gtgpe²v²gp²i Āp²m o²n/ u²i²dgp ku^ar qpwpmngn0

Mrgdgnudgti gi { r kncpc²ki ugo nŋv²g²mf km cddcp. j qi { xgu²/ nŋg²v²w j gnŋ| gvĀndgp hppp ctf^au²wpnev xc»dcp mwn²Ā^a pncm n²4u² ³4v²Ān0 G| cfq²w gt v cjjq|. j qi { c uq²ŋ| qt rgi {gw²gp uqtu²cn

ul go dgu^a ntwpm gl pgo gu^ggwg o gi m^ñf gno gkngv gl ul²r^ggwg
 p{qo qt^ñi wpcv0 Qtu^ai wpcv pgo ku cpp{k^c c jgi {gm² u hqn^gm
 x^atu^v qw^m gn F²mngv/Gw^ra^wn o kpv kpn^ñdd o xgnu²i Ñpn0 C|qm
 c pci{ gu^og^atco wqvm co gn^gngv c| gi {gvgu gw^rck m^wAtc
 vto gm jqi|^apm o kpf grlwqvm fg c oci {ctu^ai xqpc^ñp v^ñn nngv
 2u f²n hñ^ñ eucm ul^gtx^ap{q^cep jcvqncm gn tg0 ěC r²euk²u i {wchj²tx^atk
 ul²ngugi {j^a}. c neu^uck f^go² r^rñi { jcv^ñtn^ñgk c p{wi cvk ek^ññ^aek/
 pcm o kpv c oci {ct lgl^ukw^m dctqnm vgo r^ño ck²u nqn^ñi kwo ck
 c| Gu^lvgtj^a|cm²u I t^ucucm^ñxlej qm tqn^ñm neu²n{ck0 Kc|. jqi {
 glv c m^wAt^av uqⁿuqm x²ttgn nngw qncro c|pwpn0 Fg o gi²vg# Jc
 pgo v^gñm xqpc. o^at t²i gp o kpv ku gnq^fqv xqpc c ul²nk²ul
 gdd n c x^ljctuct^ññ^ño fⁿco cm^ñ» n^ñrgu²i gkngv nev^uck gt²/
 p{gkngv c m^wAtc k^apv h^ñi²n^ñp{u^ai gf|gw o gi0 Gppgm n^ññ^ñ ð/
 jg^wñm jqi { c ngr^ñ n l³w^ñ v^ñtuv^ñ p²rgv c| gw^rck n^ññ^ñu²i
 gi {gpn lqi Æ^ñci pem^ññi cf^vo

Mh^ñi {jcv^ñep ð^ñgv^ñu²i i gn i {lk ð^ñu^lg v^ñgr^ñpgm ki c|qñ^auj^ñq|
 c v^ññ²pgk d^ñqp{ñ²n^ñncv0 Gi {km n^ñi h^ñp^ñqu^ñdd o gi^anc^ññ^ñuc. jqi {
 p^an^ñpm r^ñq^ñk^ñek h^ñng^ñpf Æ^ñuv o k^ñki o gi h^ñu^lñ^gw m^wAt^ar^ñku o w^ñnc
 gn|vg o gi u n^ñul^ñgw gn0 U gpv K^wa^p. jqi { o gi ul^gtx^g|j^ñgu^g qt/
 ul^ai^av. gn dd d^ñq|vc c n^ñtgul v^ñp{u²i gv0 Co kn^ñt O^av^au pci {xqpc^ñA
 p{wi cvk r^ñq^ñk^ññ^ñtc n^ñul^ñ Æ^w dw^ñi^g»^a r^ñnc c t^ñg^ñck^ñuc^ñeg m^wAt/
 v^ññ²gn²ugk0 C h^ñrgo gm^ñf²u²u c jcp{cv^ñu d^ñqp{qu v^ññ²p{ul^gt/
 u²i i gn Æ^ñ { x^an^ñq^ñc^wm gi {o^auv jqi { c h^ñrgo gm^ñf²uv o k^ñki c
 m^wAtc n^ñul^ñgw gn. c dw^ñuv r^ñgf^ñki c m^wAtc g^ññ^ñcp{ci qñ^auc n^ññ²vg0
 H^ñln f²u^ñpm o g^ñgv²v uq^ñul^ñqt o gi c^ñeu^ñ qw^m c dtw^ñr^ñku gu^go²p{gm
 n^ññ^ñ Æ^ñm c n^ñi dtw^ñr^ñku^ñdd. c v^ññ³m j^ñ»f^ñu0 Fg c m^wAtc u^ñgi^ñu²i²x^ñ
 o k^ñki Æ^ñd^ñ»n v^ñnc^a m^wpn0 M^ñgd^ñnd^ñti ul^gtk^ñv c v^ñw^ñu^ñdd r^ñq^ñk^ñek
 h^ñng^ñpf Æ^ñu u^ñj^ñcugo x²rv^ñgp. u^ñj^ñcugo x^ñco k x^atc^ñep n^ñq^ñlp^wm^ñAtc
 cl^apf²nc. jcpgo o k^ñki d^ñeu^ñgv^ñu ul^gng^ño k gt h^ñu^lñ²u^ñgn o gi/
 c^ñrc^ñq^ñw^ñtx^ñul^gt o w^ñnc gt^ño²p{g0

C r²if^am n^ññ^ñ Æ^ñ c n^ñi l^ñq^ñddcp c ul^ññ²j^ñgl p w c t^ñgh^ñto n^ñqt v^ñpw/
 u^ñi c0 Glv c n^ñul^ñcm^ñv²tg^ñvg c o c^ñic o n^ññ²ug ki c|k o k^ñpc^ñr²pgn0
 V^ññ²du^ñ ð^ñ j^ñcp^ñi u^ññ^ñq|c. jqi { g pci { k^ñm f^ñqo k^ña^ñ» o q|c^ñpcv.
 o k^ñv^ñi { x^gl²to q^ññ^ñwo c x^ñqv c o x^ñgn f²u h^ñp^ñqu^ñi^adc x^ñgvw t^ñp/
 f^ññ^ñg^ñv^ñgp jk0 ěL^ñvgm c| cm^ñq^ñu^ñq^ñnc t^ñgh^ñto qm k^ñp^ñ|o²p{gn0 Go/
 d^ñgt^ñgn^ñgm²u cm^ñq^ñu^ñq^ñncm m^ññ^ññ³u x^ñt^aul^ñ n^ññ^ñu^ññ³ñ³. jqi { c^ñrc^ñl^ñ/
 dcp x²x^g j^ñev^ñcu o x^ñgn f²uk x^ai { o q|i^ñcv^ñw o k^ñgp^ñ0 U^ññ^ñki.
 ul^ñpv^ñ c h^ñtt^ñcf^ñmqo gn gu^ñl²ki i^aev w^ñv^ñcm x^ñvpk c^ñpcm jqi { c
 uk^at r^ñq^ñk^ññ^añ^ñu gn^ñ{qo lc c m^wAt^ar^ñku o q|c^ñpc^ñv^ñnev o g^ñv c| x^ñqv
 c o gi i { | f²u^ññ^ñ jqi { eucm c n^ññ^ññ^ñt^ñq|q^w. c o x^ñgnu²i^ancn h^ñl/

uÀn^a dcp o gi p³kgngf gw pgo | gv vrf^a ncvkm o clf uÀn{ qupcm jc c xkfi v⁴v²pgrgo o²trgi²p o gi o²tgkñ0 Jc plpeu c tghqto/nqtul cm gmgp^a nj cvevcp mww^a rku rpf^a Ærgv. c| qu^a m³pn²p{ wcrqo c ul cdfuf^a i jcte dwn^a uc w²p dk qp{^a tc n³pp{gddgp gn^a pv xqpc xgn^apn0 Fg c| ktqfcmq d>n c r qrk^anek v²ttg^a v²tcn» gt o²i cmmqt ku x²fgw² u o gi »xqw dgpp^angv. co knqt Rgv lk o^at grugw. Dcl| c o gi t^an. X³4³uo ctv{ o gi v⁴v²gp xku^a cxqpw² u kum^a kn^and>n c| qu^a m³pn²p{ wcrqo r t>d^anc nk²apk c o ci {ct ul gngo gv0 C tghqto nqt pci{ o xgn f²uk² t²v²ngkd n o²i o ctfv cpp{k co gpp{k nk w^avc x²fgpk c Dcej/nqtul cnpcm c ul gngo gtglg gmgp kpf^a qw tqj co^a v0 C xcn^a uqu go dgt o ku^a kmw^a dk vpu^a i²t| gv²xgn xcnlc< Æ0 k²ji { c| Cm^aq» xkfi v²tx²xgn lww³ul g^am²4²udg c|. cnk² t²v²ngu mww^a ncv o gi cnet ugo o k^angpk c²tv Dcej³ul dkqfcm k n³trngv ku³ul g/ qo nqw o knqt c o ci {ct o xgn f²u r²vg gmgp v⁴v0 Go n³gwo. jqi { n³iv kpm n³4 Æn vrf^a p c n³i lqddcp ul gtgw² u n³i v⁴ldgv h²ti cwc X³4³uo ctv{ v0 Dgppg² tgl²vg vrf^a p c n³i xkfi quddcp c nqtul cm crer/ i qpf qrv^a v. c mww^a tc t²x²p xcn» hrgo gmgf² u grgo k x^a i {^a v0 M^arp³ugp n³fxng² ô cm^ao kci k²| v² ô c ÆL>ur^a v² u c i I qpf qrv^a qm c n³ip{x/ v²tdcp i e²p n³4ngo² p{ gk0

Gi { km uqmul qt kuo² v²gv jcuqrv^a ul gtlpv rcm>j gn^a Æpn²p. Gw>r c dgr^a tqf^a dcp. pgo n³ul gtx^a nj cvwm c o xrgv^a pu² i | u^a h²fg gnu i v²p{ j> l^a v. o gtv c vrgm v^a n³i qucp f^a i c n³ppg j q| l^a u jco ct n³/ dqvcp^a m c| qw² n³rgp^a ngf xkm>v0 C t²i k Rg^a v dgr^a tqk nku j^a ck ugo w^a v² m o ci w^a cv^a v²cvpk c p² i { /³ago grgv^a d²tr cm^a v² m o gmgv0 Ngdqv^a utc ngt^a Æpg^a m^aco wpm ku. ëjc h²ku^a v²tk v^a n³et² n³qu^a i ul go / r qv^a ck>n xg| gw^a pgo j q| p^a pm o gi mww^a rku v²tg^a c| qnev c| =^a r^a q| cv^a nev. co gn^a gm ul Æm² i gugm c j j q|. jqi { M⁴2^r/ Gw>r c v⁴ddk qtu^a i c kxcn r² r² uv w^a l wpm v²cvpl⁰ p² g c mww^a rku r² tqi tco o^a ukm h²pv^a qm crer² v² vrg< c ul qo ul² fqm h²4² xcn» ngt^a gmgf² u. c ul q/ tqudd² t² vrgo dgp xgn mww^a t² h²4² p{ 0

Mrgd^a n³gd^a ti ul gtlpv c mww^a tc pgo eucm gi { Ævo n³4² u. jcpgo xgtugp{. u v jcte k0 C o k ucl^a v^a qu g^a v² Æpn²dlp c xgtugp{ nko g^a v² vrg² n³gv xci { j c^a n³ lrgp⁰ P gm^a pm pgo eucm ctte ngm xk^a i {^a | p^a vpm j qi { c mww^a v^a gi { dk qp{ qu g^a h² q^a cf j cv» o² t² v² ndgp cf ci q^a r^a w⁰ U go o gn ngm v²cvp^a vpm gi { Ævcn c pci { r² r² ugmgn gn tgv⁴ ul go / ul² fclpm n³4 Æn c| Æ0 p0 w^a f^a m^aco qnev. co gn^a gmv c o k^a pn² d n f w/ | cu| vqcm h²nt U² n³gd^a x^a i » h²pv^a qu^a i Æ j qi { c| gi { gv² v² Ærgv. c j qn o² i ul cdf o ctfv ul^a o w^a n³tc c xgtugp{. h²4² k² pm pg ngt^a gmgf/ j gu^a gpn0 Gppgm dk v^a v² u² tv ul gtlpv o k^a f gp gm^a r | g^a v^a r^a q| cv^a o gi ngmj q| pwpn0

J ƒguu² x³nv i²rnqeukjcuqprvc0 ëC xkf i ʋ⁴v²pgrgo x²i|gvu
 Àlªp p²i{| i²rnqeuk tqdq0 C| gnu i²rnqeuk n̄p{vngp i{qtuƒcpk
 o gtv c oªukm jªtqo p{qoªdcp xcp. oªt jctupclgnv cf. lgrg|xg.
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 Tqoªpk. Ugtclc ²u Eugjqtuªi0 Ctte c nqeukc rfgki. co gn{ o²i
 gn rªt. fg i{qtuƒcpk n̄p{vngp. c| xcp ƒxc< Oci {ctqtuªi0 M̄tfgo.
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 o cl²p{pcn0 Xkf i qupcm hgi {xgtngcm» n̄⁴qmcv uªi {k o kplu vtg
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 o ci {ctqmpcm pgo ul cdf c| ƒ²tg v h̄⁴f l²tg xgl gv ³ux²p{gp c h̄n/
 Àqp ³ul gtqncf pwpn0 C| cp{cik gt m jk²pªp xlu qp v ugi ƒgpÀpm
 ngjgv. ugi ƒgpÀpm ngm o wññxcn ²u ul gtxgl vx²ngp{u²i i gr0 Mexg/
 ugdd dgu l²ftg. ngxugdd ntkkª rªutc ²u ʋ⁴dd eugrnx²utg. c èvgw
 pgo gu hcpck o wªtci xcp ul Àn²i Àpn0 ~xc kv cw»n jqi{ gl gp c
 v²tgp knÀ kndc tki cuwm o ci vpwnc. jqi{ c| c mwwÀr h̄⁴f p{. cok c
 o Andcp o gi xqm. cmtt ku o gi o ctf. jc ³rdgvuul Àm c ng| Àpngv0
 C mwwÀr pgo gtcnªtqj cwª tw< c|²tvªncp»cp fqi q| pwpm ngm0
 C o kpngv n̄⁴p{gl. xgnÀpm ul go dgp gngpu²i gu p²rgm vngk xcpccm
 vwtgnñ ul ³pdk crqo o cn u c n̄r|gnjgv ngi xkj ctquedd vgo r»dcp
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 o gi ngm o ctcf pwpm gl gp c v̄lqp cpcem cok o kpfki xqñwpm gn tu/
 pgo|gvpgn0 Pgo wfqw xqrpc dngp{wi qf pk jqi{ kf v xgu ƒuÀpm
 xci{ ²rrgp ngo ctcf lwpn0 O kpf gpv o gi h̄i {gn cok gttg c rqpvc
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 c eugj h xªtqudcp ʋ⁴dd c n̄⁴p{xngtgungf²u. icl fci eddem c n̄⁴p{x/
 ngtungf k n̄tcncvñ0 Grko gtk jqi{ wfqoªp{qu ktqcm wpm gi{/

gn tg o²i pci { ul[¶]xu^ai i cn vctlc o ci^av. fg c ul²rktqfcmqo eugp/
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 dgti Ai { fqi q| km o kv xgu²n| kf|g²p c|^ato gpvuf^v o²tp³4m
 hi { grk jqn i { gpi An c i^av u c| qnev c rqpqvnev gt uf[¶]lk co g { gngp^av
 v⁴2 u xgu²n| g hgp|gi g0 O kpf gpv³4ul gx²xg< c mwm[¶]tc gi { gwgp
 rqp^va p ugo ul cdf ul qo ul²fclp^men ul go dgp c o^auqf km uqtdc
 ngt[¶]Ap[¶]0 eUqm xgtgl^vm n³pp{²u x²t pgo gu i { Ao³4eugn³r rgp c|
 kf m hqn|co^ap i c| fci mwm[¶]A^atc vgw[¶]Ap^m ul gtv. Ai { jqi { c|³4ul g/
 qo n³u w³p ku c tqo qm crw o gi o ctfv ul^ao wntc n³v³4³m²t^vnk
 c dgeu[¶]gv²u o xgn²i 0 G|gngv^ar qpk p{qo qt²u kpu²i n³4³w ku
 hppvctcpk ul gpv n³4gng²i[¶]Ap[¶]0 j c gn t[¶]Am jqi { nrgvk ul qo/
 ul²fclp^m mwm[¶]a[¶]ku v²tp ku v[¶]ul^atp{c|cpcm cmqt[¶] Av³4w c| »^apn³
 C| kf gi hgu[¶] v xgtugp{^apn³ctcpeuq[¶]lc. jqi { c nki {g²u nqt/
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 i {ctcr[¶]uwn0 Mrgdgn dgti c| gn kf dgp. co knqt rtqr ci cp^al^av grk/
 f[¶]qwc. h ngi ctt>n dgu²n. jqi { o xgn f²uk v²tp ngi cr³dd c nki {g/
 |²u nqt^apcm ul[¶]pxqpcr^v ngn vx^addtc ku dk[¶]vu[¶]cpwpm t²i kdd kv²||
 o²p{gkpgv^avo gpv[¶]Ap[¶]0 J co ctquc vx^addo gpv< o^at pgo²tk
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 o gi t|²u gn o gi n³gv vctcpk= c mwm[¶]tc hqn|x^auv o gi Al[¶]wn o kv
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 c n³4gvgm²p|gn< c| Al nqt Al kv²|o²p{gngv n[¶]x^ap0 eXcn< dcp
 tqul vn^amp^apm ô nk^amc ô j c c t^af[¶] 2u c tgr An i²r nqt^adcp. o knqt
 c hgn f²u Avgo g ul²f[¶]v. c o ci {ct mwm[¶]u o kv[¶]vt c nki {g|²u nqt
 kv²|o²p{gkpgm r wul v nqt|gt^an³u^atc ul qt[¶]mq|p²m²u pgo nt^arp^a
 c| qnev c| kv²|o²p{gngv. co gn|gngv c j crf> nqt o gi n³4gvgm P ci {qp
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 pgi qi { gi { Al ul gngo k Ugf cp. jgn|gugddgp o qpf xc gi { ul gngo k
 Vtclpqp gr³ xki { Am c o ci {ct pgo|gvg0 M[¶]Av³pdgp ku c nki {g|²u nqt.
 co gn|v n Mrgdgn dgti qw. cj qn n³gv gw. gi {^ancr³p pgo xqvc o gi
 gkvo gt²u^v. mwm[¶]a[¶]ku ul go rqpvd>n ul gtlpv^v xqt>n ugo jcu[¶]p^anc nk
 c n³gv u²i gngv< c| kn|gp e²n³ntc ct^ap|rci n³xgugv^af q|qw u c| v
 ugo c n³i n³4Avgnkv dd v²xu|gt u²i i gn0 U c| kf ku t³4kf xqv cj j q|. jqi { o x²vdgh|g|j guog

M[¶]Av³4gp c wfqo^ap{rqrkmc vgt²p gr³tv gtgfo²p{gngv n³xguk0
 C nki {g|²uk nqt|cndcp n³x²u c| gi {gvo k vcu²m< ul gtp^{eug}/
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 xci { ugo 0 P kpeu³4v³pf[¶]cnk< c ZXn0 ul^a|cf dcp v³4d o ci {ct
 l^atv m[¶]Av³4f k h knq[¶]ntc. o kv g|gnlgp c|²xv[¶]gf gnlgp0 Rgf ki c

o ci {ct j c| chuf i qv k|} » j hqntc c m^hh^haf^h p u|gt| gw vcr cu| vcr vqm
 u|qm^m j gx^hgpl0 C| v ku ngu^hlv^h pem vcr hlc. j qi { c nki {gl²uv n c|
 3/4u| gqo r^huki gn^hnv l^hn² xul^a|cf o kpf gphlcw kunqr^h go gr^hu²tg eucm
 59072.5:; ctc p{ nqtqp^av hqt f^hqw. c hgrf cv pci {u^ai^aj q| o² tvp
 u| kpv^h nqr^h w^h4u| gi gv. co gn^hpgm v^h4r gu²i g cmqt v plm ki c^ap u| go dg.
 j c o gi hqpqr^hwm j qi { wi {cpc| qp kf crw v^h4d o kn^htf^a mco /
 cf » u^ai^a qv j crw q| vcm hgn co gn^hd n o kpf gptg ct^ap {rci d u²i gup
 lwqw. eucm c m^hwu^h v^htec xqr^h n^hp {vgrp o qt| u^a m^hen dg²tpk C dg/
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 ngugt xgu i {Ao 3/4eug rgw c| gi {o kn^hp^a n v^h4d j c^h xgu nqtv o gi /
 j crcf qw cpcr^hd²w0 G| gnv n p {A^h u^h 3/4w c| C^hh^haf^h 2u c Fw^apv^h0
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 x²i g o^at ki gp dgvi xqr^h0 C| qd^hu^hw^hek^hm^hen t^hgi gvi kf v r qe^h /
 nq^hwpm gr0 C^hcr^hl^a dcp x²xg gl c| kf u| cm rgw xqpc ctc j kxcw.
 j qi { m^hw^hat^a rku v^htg o kpf c| v. co k pgo nku t²u| dgp c v^h4^h3^hm o gi /
 u^a n^h u w^hn^h4^hgvng| o²p {gn^hpv j^a tco ctcf v. x²i rgi l^hx^a vgi {g0 G|
 pgo v^h4^hv^hpv o gi 0 U c| ku pci { dcl xqr^h j qi { c nqtu| cm m^hw^htr qrk^hn^hlc
 vt^hAngk u| go rqpvd^hn pgo xqr^h gi {g^hngv^h0 Hgrf w| cu| vq^h wi {cp c
 h x^a tqv. fg w^hpc c o ctc²m rgi v^h4d gt v pgo c u| p^ho ci {ct t²u| gntg
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 r » vq^hwpn^h C| 3/4^h3^hm^hi gv pgo rgu| gr^hi o gi vtc^hvp^hwm r gk^h gl o ci^a /
 dcp x²xg ku pci { hgrf cv^hlg^hrv^hvgp. j cpgo o²i i {ctcr^h f^hcp^hwm^hgn^h0

C m^hw^hh^haf^h p { i qpf q^hv^h xcn n^her euc^hrvdcp ku nk^hh^haf^h 3/4w dgn rg
 c o ci {ct o^h h^h u| gtm^h gug. c v^h4^hv^h pgrgo d^hh^a t^hlc0 Gi {km rctm^ho gpk
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 m^hw^hh^haf^h p { ugo xcr^ho k w^h fqr^hi. o²i ngx²udd² c| vcr^h m^a /
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 o qpf cvq tci c^hvk nk^h e^hp go| gv^h r^hv^hpm eucm c^a ncn dk^h v^hq^h c^hw.
 j c c| c u^hh^h. o gn^hgv c u^ao. c| 2^hgv^hgx^hcn^hu^ai. c j k^hw^h tck^a n^hu
 p {h^h c n^h4^ho xgn^hf²u u^hh^h c^a ncn j c^hv^h n^hquedd^a v^hgv^h0 Vgr^hg^h
 o gi xci {qm i | f^hxg. j qi { j c c M^h4^h2^h /²u C^hrf wpc g^hq^hi t^a hck
 t^hgp^h u| g²dgp pgo u^hgv^hpm pgo gv^hpm u^ao^atc m^hw^hh^haf^h ck v^hnk^hpv^hdgp
 c R^hlo wu k^hvt rctgu u| gtr²v dk^h v^hq^h c^hpk xci { 2^h rrgp v^hu^a tp {cn^h
 v^hpk^h g^h l^hmo ci v^hnev xgu| xg xci { v^hpn^h .

M^hg^h xv^hgr^h uugn dgu gr^hi v^hgv^hgn h^hl^hvi gw^h. j qi { cr^hl^a dcp x²xg

U²ejgp{kpgm ku gl xqrv c hgrhqi^auc= rgi crf dd ku ekmgkdp. dgu²f gkdp
^ancpf»cp j cpi u^anc| c c nko xgrv go dgth m hqvqu^ai^a0 J c m
 ngwgp xcrco kdgp gi{g²v²gvwm cnkm gi{²dn²pv cpp{k r qpvqp xcn/
 nqwm gngp^vvgu hgrhqi^auv. cmnqt xcn»dcp eucm c rgi o²n²gdd o ci {ct
 ki c| u^ai qm gi {kn²t n rgi gv ul »# U hqvqu c| ku. j qi {²rr gp c| co Ai {ku
 cpp{ktc ngf xgrv tghqto /nqtul cm n²v pci { gi {²pk²i²pgm gi {dgj cpi |»
 ¶²rg²tg j kxcvq| j cvq⁰ C i qpf qrv i ggp| k²v gi {²dn²pv vx^a dd/
 mwcvc u o gi vcr²lc o^at c| Alt²dtgf²u pci { Aw²4 kp²n Dguugp{gk/
 p²n² u Mc| kpe| {p^an ku0 Vg^av eucm^a{cp pgo xcrco k Alf q²i^ait»n
 xcp ul ». j cpgo c rgi ul gpvdd o ci {ct j ci {qo^ap{qm gi {kn²t n} èLcl
 cpcm c m^aAr qrkknwupcm cnk gtt n c| Aw²n rg cnet v²tpk^a P²jc
 ul gngo g l^av²nqu ngf x²dgp xqrv u gi { kn{gp r knpcvdep o²i c o ci {ct
 e²o gtd n ku nkqxcuc c m^aAr h²4 p{tg xcn» n²4grg| gw²i gv0 èO gtv j c
 o^au p²rgm e²o gtglv p²|| Am o kv n²wpmA C h²k knck gt ul ko d»nw^av.
 c dclqt²u ul^au e²o gtgnldgp qtqu n²pqnev. c y Awgo dgti kdgp ul ctxcuv.
 c rqtqu dcp gtf gk »tk^auqnev. c| cpi qndep gi {ul ctxA rctk^av. c p²o gv
 e²o gtgnldgp ucuqnev ul »xcn qn{cp go dn²o^anev. co gn{gm c h²4f k
 co gn{gm c v²guk gt ngv lgm²r gl kn0 Eucm c o ci {ct e²o gtv vct^am
 cpi {cnqm cnkm c ul gngo k gt m o gi v²gug²v k00 M²h²qi {j cvcxp xqrv
²txgnldgp. uqnu| qt o gi rgr ¶²rgvndgp. j c ctt»n xqrv ul ». j qi { c o ci c
 ki c| u^ai vcr² v² o cuu| c0

Vgto²ul gvugp gl c v²4v²pgro k o gi h²i {g²r²ugnd n²u m^aAr h²ku/
 |»hck gr²mgf²ugnd n hgr²r²vgw gu o gr cqv c l» e²rr qpvqv p{Awqv
 Mrgdgnldgti r qrkknck gmphrgk ul^ao^atc. cnkm xcunqu tgerk²o wwm^a
 dcp eucm c n²|| g²h²qi j c²v xqncm j clncpf»m wu| vrp k u gi {²dn²pv
 ugo xqncm rgnk²gi c m^aAr qrkknck o guu| gdd v²xrvqm^a vgnk²v²tg
 j cpi qrx0 C rgi pci {qdd r knpcvp{k uln²tv Mrgdgnldgti gri qpf q²i^a/
 xcn ul go dgp c| c n²r xkugn²tv gn cnk gi {ul gt c m^aAr h²4 p{ gr²v
 rgnugp o ci {ct^a |» o k²ul v²tpgm qf cxgvw²< èK gp^ao. fg m^aAr
 h²4 p{gn pgo rgi gv c|^ai {Anv o gi v²ngpk^a Mrgdgnldgti gv c| qpdcp
 pgo rgi gv w gi {n²4pp{gp |cxctdc j q| pk xci {²rr gp gm²gv²gp²gp²0
 U| gpv j²xxgn hq²vcw vx^a dd c o ci c o w²n²i^a0 Qn{cp o ci {ctpcm
 xcqv² o ci^av cnk pgo x²t| km gn gi { i qpf qrvqp. pgo ngf xgv²pgf km
 gn j c Aw^adc^a n²pcm j cpgo o²i lqddcp o gi h²u| ¶k o kpf gp gtl²0
 Ci k²n ul wi g^an²u h rgi cmq⁰ O kpf gp i^apeuqp. ul mrgdn u²i gp^a
 nleup{gu²i gp. kki {u²i gp. i {cpAw²uqp hgn²rgo gm²gv xg eul^arlc. co k²
 pgm²ix²i²u²tg tgp²gv²0

Gi { r qpvqp tgo²ij gv w o kpf ki v^a o qi cv^au² c nqto^ap{gn²4n/
 p²rl0 Mrgdgnldgti v²4du|³4 j cpi q| v²w. j qi { c| r qrkkn²lc. co gn{gv
 c èm^aAr h²4 p{ i ul »xcn ul gtgv w t³4k² gp³4u| gh²i rcpk w²rlf qp/

nřr rgp c Dgý rgp/nædkpgv nww^a rku rqrkskñ lc0 U gl pgo xqiv Ågu
 ul »0 lgrgo | . jqi { c | gi { km lgrgu gngp |² nk rwdrkævc i Åp { qucp
 ë Dgý Kgp / hř ng Mrgdgndgti u² i i / t n dgu |² n. co kxgn e² ml pk cnetv c nřv
 xgl gv rqrkskmwpcm c řp { gi gu nřtf² ugnlpgp xcñ gi { g^v t^v u² tg0 Mrg/
 dgndgti pgm v³ ddu |³ c mēro c p { kv cttc. jqi { c nřto^a p { g³ m v^o q/
 i c^v u^v c p { k^a pqu^a i gn w p { w i v | | c0 Gi { km rctro gpvk dgu |² f²/
 dgp rñ0 dgxcmqvc. jqi { co gpp { kdgp c r² p | Åi { o kplu vgtgn c mēro k/
 ni pgo dqrñ qi wn uqj c ugo hřtf wn c nřto^a p { g³ m v^o q /
 C p² r kumqñ^a u hlgul v² u² j gl ul Åm² i gu ct^a p { ni j c v c m cu³ u | gi g/
 ngv ul k^v p h řgi Dgý rgp v^o o qi c^v uc dķ v u² qvc0 W { cpeucm ugi v/
 u² i² tg xqiv c o ci cu mwn² c ul^a o^a tc k² p { giv hř gl gv gn vgtgo v² u²/
 p² n ku. r g f k | gl gp c r q p v p c j gn { gv v c ě f go ci » i lgn | c x c m r q r k s k ñ k /
 ni² r r g p u² i i gn pgo nřpp { v g w² m o gi 0 v { l³ v ř v g r ñ0 Mrgdgndgti /
 pgm vř p řgi v³ d d g v i^a p e u q i v c m q v^o u c . c v ĵ cp { k² r g w c p k k p v | g v 0
 Co knqt c r² p | Åi { k ul cp^a ř u ul gtg p e u² u g p d g h g l f³ v u c p c i { q d d
 ct^a p { Å j c u l p q u d g t v j^a u a q m o gi k p f v j c v c m Mrgdgndgti³ /
 o gn^a m e r v q w c o gi . j q i { c m w w u l v^o t e c . c o g n { g v c | g n w o q u v j c /
 i { g t o g m² p v n g l g n g m c n k i { g l² u n q t k^a m e r q y q l n ř g u v o gi n g j g v /
 u g p g n v² t d g n g t Å v . c o k c n ř t o^a p { g³ m v^o q i c^v u c p² m Å n c r i j c
 u k n g t Å v x q p c c m q t c o² t^v n d g p 0 U j c ul Å m² i x q i v t^a . D g ý r g p c p { k /
 x^a p q u^a i g n w k u o g i x² f v g o k p l u v g t² v 0 C o k n q t r ñ 0 3 ; 4 ; 0 l Å k w j »
 g n l² p c h e m j^a | d c p c v^o x q n g x M r g d g n d g t i g v . c n k² r r g p c p^a n p m
 k f | U e j o k f v Q w » o k p l u v g t v n ř u² t v g n ř Å l^a p . m w n Å r q r k s k ñ l c o k w
 v^o c f v^o m D g ý r g p k u h ř n v o g i x² f g n o g l² u² t g 0

V³ ddu |³ j c p i q l v c M r g d g n d g t i c | v k u . j q i { D g ý r g p c p g o /
 | g k t g n p u t w n e k » o x² d g p c m w n Å c u l g t g r² v v r d g u p x g n g i { g v /
² t v n g i v² n g o g i 0 G t t g f³ p v d k q p { v² n q m x e p p c n 0 D g ý r g p o^a t
 3 ; 4 3 0^a r t 0 3 ; 0² p v e t v w d g o w e v n j » d g u |² f² d g p w c i v c t t c . j q i {
 e² n w f c v q u m w n Å r q r k s k ñ x c n n g m n k m Å u |³ d³ p Å p m c p g o | g v d n c x g r /
 ul Å r g v w j k^a n e v 0 G i { o^a u k m p c i { q p h p v q u p { k r v n j | c v c 3 ; 4 4 0 o^a l w u
 j » 3 7 0² p j c p i | q w g n ul k p^v p o² i M r g d g n d g t i n ř q m c v^o u Å i { k o k p l u /
 v g t u² i g g n w f g d k q p { q u o² t^v n k i o^a t u l g o² n² x g n m e r e u q i v d c p 0
 D g ý r g p c u q r t a p k n e u l k p » f v l v g t o² d g p d g u |² f g o q p f q w M r g d g n /
 d g t i n ř x k u g n l g r v m² i² p g m v^o q i c^v u² t c 0 h e m j » n ř u² d » n n i k g t Å n
 p q i { c m w n Å h³ p { o^a t c m q t n ř t o^a p { r t q i t c o u^a o d c o g p v 0
 D g ý r g p o g i^a m e r v m c . j q i { ř u l » n i h Å i g v g p .³ p^a m » p g o | g v n g v /
 v Å p m c | q p d c p ul k p v g o k p f g p h e n² v r g j k² p { | k m c p p c m j q i { x c n /
 d c p h Å i g v g p p g o | g k² r g v g v² n j g u u Å p n 0 J c f u g t g i Å p n g v n g u l g t g n² m
 c |³ p^a m » l g i { d e p m h e n² n ř u² j q l g i { g n t g j k² p { | k m c | c p { c i k g t p m
² r g v Å p m o g i u l g t x g l² u² j g l c r i o c t c f v v g t Å r g v Å p n 0 C h Å i g v

ngpu²i m^ñau cwtkd^Àwo ckv o gi cf[∇]m fg c jql|^axcn» gt hqt^auqm
 jk²p{|cpnc0 Gu vggpf pm rgu|. jqi { nk[¶]xlwm c| gi {glplqi ^Àrⁱqv.
 jqi { o gi u| ^Àpvguu^Àm c o gi cñ[¶]» dgxcvñq|^auk rqrkñf[∇]0 O gi ngm gt /
 u³/₄p^Àm i c| fct[¶]i kci. jqi { o gi qfjcuwm c rgi²i gv dd u| qe[¶]rku
 dclqnev. G| gm n³/₄ ^Àn c| gi {km rgi u^Àn qucdd lgrpu²i. jqi { [∇]pntg/
 o gpv c o ci {ct n³/₄²rqu|[∇]n[¶] u xngg gi {^Àw c [∇]pm u|²r²tg lwwq c
 o ci {ct m^ñatc0 O^at rgfki c d²ngulgt| f²udgp crki ukngt^Àw o^auv
 o gi o gpvgp^Àm o kp^v i m^ñwt^arku hgn ddu²i ^Àpn[∇]0 Gdd n pgo gpi gf/
 jgv^Àm[¶] pgo u^Àm{gfjgv^Àm rg c Dcm[¶]p u| [¶]pxqpcñ[¶]tc0 èOgtv rgi gv
 gi { pgo|gvgv ô hqñvc[¶] ô u| gi²pp{². nqñf wu[¶] vggpk fg jc c pgo /
 |gvdgp rñq|» u| gngok²u gtn³/₄teuk gt ngv o gi vctcpk²u i {ctcr[¶]cpk
 n[¶]r gugn xci {wpm cmñt c pgo|gv plpeu grxgu| xg²u o kpf gpv xku| c
 rgi gv u| g| pl⁰ Rqpvcup c| c xgl²ti qpf qñv. co gn[¶]gv n³u dd Mrgdgn/
 dgti rwdikeku[¶] kñek o n³/₄²ug p²ru|gt u[¶]lgw²u g| gthgn[¶] u|²[∇]i c|».
 fg o²i ku o kpfki gi { e²rtc [∇]4gnx cmñq» vx²ngp{u²ig c xcn[¶]uⁱdc
^av^Àngv[∇]0 O kpf gp gvgtg Dgv rgp ku. Mrgdgnudgti ku gi {^Àw ngtgu²m
 c| v c rqpqv. co gn[¶]gp c n[¶]qu| dcp n[¶]dwnev o gi xgv g[¶]km u| g| v o kpf/
 ngwgp c o ci {ct m^ñatc o gi o gp^vu²dgp²u vx^a ddhglrgu|[∇]u²dgp
 vñ[¶]n[¶]m o gi 0 M[¶]u ddt n ku Dgv rppgm u|^ao qu p{ kcvñq| c[∇]v rgi gvp
 hgn q| pk cppcm ki c| qñ[¶]tc. jqi { c m^ñat³/₄p{ xcn[¶]dcp nqto^ap/
 rti q| tco wn ngv0 C| o^at h rgi Mrgdgnudgti²tf go g. jqi { u|^an[¶]ki²x²
 x^am0

C m^ñat³/₄p{ grxg ngw Mrgdgnudgti m^ñat[¶]rqrkñf[¶]l^apcm gkpf w
 n[¶]uc. crclc. xgl gv i qpf qñv0 C dvgv|²u. c x²i u e²n vku[∇]|^auc.
 c|^a vqi » pgo|gvgxgr[¶]uk rti q| tco o nk[¶]qñi q|^auc o clf c pggpcckpck/
 o wu gpgxgl²uv ncr[¶]lc0 C ngw n³/₄² gukm c vgw c m^ñat^av o gpv²u
 vx^a dd²r[¶]v cmñq» vx²ngp{u²i 0 Crcl[¶]dcp x²xg o kpf gp o kpf gppgn
³/₄u| gh[¶]i u c xcn[¶]uⁱdcp u|²vdqi q| jcvvcpwn ³/₄u| ghq[¶]»f kn⁰ ¶| { pgo
 rgu n³/₄pp{ hgrgpk ctte c [∇]4du|³/₄ hgrxgv f³/₄v n³tf²utg< xqn/g Mrg/
 dgnudgti pgm ètgpf u| gti. gn tg gñi qpf qñv vgtxg. xci { eucm c rkrpcv
 kpur k^anc/g vA

C| gn| hglg|gvndgp o gi hki {gnj gw^Àm jqi { Mrgdgnudgti o^at
 hcvrnp. c nkrpexgpgu²xgndgp nkrñ[¶]qvc m^ñat[¶]rqrkñek grxgkpgm
 vgnp[∇]n[¶]gu t²u²v u jc xcrnk pci {qp ngtgup² cmñt o²i gt usg hqt/
 tpi » i qpf qñv kñ[¶]i^adcp c ètgpf u| gti. dk qp {qucp o gi ku vñ[¶]tp^a
 cppcm rgi cñ[¶]dd c n³/₄xqpcnk⁰ Fg p^anc pgo g| xqñv c hqpvu. jcpgo c
 vgw c| cmñq[∇]uk rgi gv u²i 0 Gi^a ncr[¶]p pgo [∇]4 f³/₄v c| cn x^allqp c
 eugrnx²u uqttgpf lg. co kv cpp{k n^ñau[∇]p{g| dghqñ^auqñv o gi hgrgn/g
 c| gn²rgk gñi qpf qñ[¶]u rgi kñek gi {o^auw[¶]pl³pcn⁰ Grx²i tg c i {cmñt/
 rñk rqrkñek vx²ngp{u²i pgo ki c| qf jcvkm c o cy go c[¶]ñek rxxgl g[∇]u

u|cd^an|ck u|gt|p⁰ J c o^at o quv xcrcnk Mrgdgnudgti mwn^Àtr qrkknf^la v²u c| gl v n^li²t jcvcm cu rwdreku|~~w~~ck vx²ngp{u²i gv gdd n c u|go / rqpvdⁿ a^wgn^lpk gi {h²to^ap xcrcⁿu|^lp u^lgpk wflc. jqi { Mrgdgnudgti / pgm xqrv fg c|v ku. jqi { pgo xqrv mwn^Àtrku|^lhck tgpfulgtg⁰ C| ki c| / u²i c|. jqi { xqrv fg gi {^an^lrp pgo fqi o^andⁿ 3⁴u|gu|gtⁿu|wg u h rgi c n^lkgndgp pgo n^l4³4^wg o ci^av d^lqp{qu uqttgpfjgl⁰ Vc^ln^lcp^a n^ler^llc o gi gi {km o²nc^wlc. jqi { telc tgo wcm^lqfw c tgpfulgt. jcpgo kⁿi^ldd c| cm^lkk⁰ o wuc p{gti gng o gi c|v u h²to^anc x²i tgi cl^vu²o Uqmen kⁿi^ldd i {cn^ltr^w 2^t|²m xqrv uqmen jcl^lr / n^lpp{cdd. uqmen²rgu^lddgp h^li {gng c u|^Àn²i r^lgvngv²u r^lgv u²i gngv. ugo jqi { gl o^aun^lpv r^lg^lgvw xqpc⁰ Gu r^lncp^vut^c kⁿi^ldd ^Ài { r^lv u|qw o k^vjc ko r^ltxk^a n^l u v gi {gu v²p{ng^l2^ungv o k^vjc gn^lgvw xqpc. C u|^Àpvrgp cm^lkk⁰u c n^l4^xgv^l u|go r^ln^lpgm c^lki v^lgv r^lg / v x² xcrc⁰ k tgpfulgt gn^lr|g^lu²o V^axqrcddtⁿ u v d^lqp{qu v^lxrc^vdⁿ p²|xg c|qpdc^l n^lu²i v^lrgp. jqi { o k^lgp gn^lcv²q^lu^av c r^lgi t³4^v4^l / |³4^wddpgm r^lu^l»v ku. u|k^ltfcp n^lh²to^a n^l r^lki^wucp x²i ki i qpf^lqrv c^lr / gn^lgm j^lv²q^lv^lm o gi⁰ G^lv o w^lewc n^lr|gv^lnc^l eu^lq^lu^a p^lcm l^lg^lgi g k^l i {qtucp n^ler^leu^lq^l u o k^lf^lki c o gi h^lgn^l j^lgn^ltg. o k^vjc c| ^Ài i qpf^lqrv^lcm xcrc⁰ k n^lu^l r^ln^lpwo dcp gn^ltg t²uv jci {qw xqpc[#] U eu^lq^a n^lqu. jqi { c| w^lnci t^lrg^lf²uv^lrgp v^lo 3⁴u²i pgm r^lu^l» gn^lqpf^lq^lu gi {gu t²u^lgk k^l d^lg^lngi u^lqu^lqt o k^lgp o gu^lg gu^lgm gi {o^au^wn c i {cn^ltr^w o gi / xcrcⁿu^lu^l uqttgpf^l2^dgp⁰ N^a u^l»nci o k^lf^lki u^lgvw. o w^lnc^vtuck i {c^l t^lcp v^lrp v^lg^lno gv^lppgm ku 2^lg^lv^lm r^lg^lki c^lr^la dcp x²xg ô j^c n^lngw ô u^l«^lu v^lg^lno o gn w^lq^lw x^atc^lu^lpk⁰ U^lqu^lqt eucm j^lqu^lÀ x^atc^lu^la w^lp euc^lj^lcvw r^lg c o gi xcrcⁿu^lu^l r^lncp^vtc⁰ «^l { r^lo c| c^lpi^lqn n^lq^ln^li k^lwo h^lgn^ln^lu^a p^lcm v^ltx²v²x^lni o g^lg^lpi gv^l. c o gi xcrcⁿ / u^lu^lv c r^lgi n^l4^lpd³4^l dd h²to^andcp n^lkg^lx^lg^lv^l. o cl^l k^luo²v g^lgv^lgv^l. co «^l x²i ^Àn c| k^lv²o²p{ gi {ng^lx^lg^l r^lncp^vdc^l v²p{r^lgi xcrcⁿtc x^an^l j^lcvw⁰ C| k^lgp gu^lgv^l ku c|v o w^lvl^am jqi { xqrv tgpfulgt. co k^lgp o k^lgp u^l2^lrp 3⁴u^lg^lx^ai qw. fg eucm c|v 2^lg^lv^lg d^lgn r^lg o k^lf^lki 2ⁿ t²u^lpgm co k^lgmo gi xcrcⁿu^lu^ltc²rrgp uqt n^lg^lÀ^lgvw⁰

Gi {km dgu^l2^f2^dgp u|^Àn²i gupgm v^ltlc. jqi { g n^ltf²ut n c p{kr^l x^ap^lu^li gn w xcrc^ou^v v^lgi {gp⁰ O k^lku^lv^lu²i g g^lg^l2^p c|cn x^af^lq^ln^lm jqi { mwn^Àtr qrkknf^llc v^l4^gf²ngu. pgo cm^lq^lv 3⁴u^lgh^lÀⁱ gi²u^lgv t^lr / u|q^lkn^lu⁰ Gi {km n^lr^lx^ll^lgn v^ltuc gi {gp^lg^l c|v^a n^lq^lwc. jqi { Mrgdgn / dgti pgm k^lglg ugo xqrv^a w^lcpw^ap{q^lpk c| cm^lw^lr^lku r^ltq^ld^lr²o^anc^v u²rrgp c²tv ^Àgu l^lgn^lcx^lcm^lcn f^lq^daⁿf^lkn⁰ Mrgdgnudgti t^ao w^lcv. jqi { o k^lgo r^lgw xqpc n^l4^lpp{gdd. o k^lv n^lg^ltn^lgf^lpgm r^lu^l» r^ltqi t^lco o qv n^lncp{ct^lep^l0 Fg Vku^lc K^lx^ap^wn c|v w^lpw^lnc. jqi { gi { o k^lku^lv^l eucm cm^lqt dgu^l2^lrgp. j^c u|cx^av p{qo qp n^l4^lgv^lgk c v^lw⁰ O cl^l co k^lqt

c u| Ām²i gu ¾u| gi gm tgpfgmg|²u²tg^a npcm ku hgn^o tlc c| ¾u| ghĀi i
rtqi tco o qv0 G| v ki c| qrlc gi {²dnf pv c mwmĀtr qrkknck vgx²ngp {u²i²/
pgm uqttgpf lg ku0 C LwĀk p/gi {guĀgv xqrv Āi {xgl gv ki c| i c v}lc. c
h rgi p²rqmčv uk rtqdrfo^a mnen nĀf xqrv mwmwu^a mco vknit n²u²i/
vgnpĀn^a v²tgi v g c p²rqmčv uk rtqdrfo^a m i {qtu o gi qrf^a u^a pcm u| Ām/
u²i gu²i² v u o²i ugo g| gn c rqpvcn ngl f v g. o gtv c| cp {ci k rj gv u²/
i gmo^a u uqttgpf gvr ctcpeuqncn0

C tgpfulgt/cmāv» n²u| u²i u| qtqu ¾u| ghĀi i²udgp xqrv c vgtx/
u| gt u²i mwmwu^a xcn co gnĀ Mrgdgndgti gi²u| ²rgv²v dgx²m³/²v g0
Gtt n o^a t u| » gugw u o²i rgu c mcn wpm dgu|²ipk t» r0 O^a t c hcvn
Mrgdgndgti hcpvcnwu j {kxg xqrv c vgtxulgt u²i pgm u cšo ci {ct nĀ/
²rgvdgp gppgm c jĀ p{^av rcpcl qnc c rgi ngugt xgugdgp0 O²i qrkcu/
o^a p {ck nku| go gr u² dgp u h rgi nkn p^a | u^a dcp ugo gpi gf v g^a v o ci^a v
c| gi {²pk ngl xvgr upgn0 C| qrkcuo^a p {qnj q| h| f gr ²mgf²u o gvq/
f knĀ^l dep ku o gi xqrv c o ci c o » f u| gtg. co gnĀ gv gi {km xqm dgt rkp
rtqhuu| qt^a » n Dgtj ctf v J Ādrgt v n vpw0 J Ādrgt o p qf v gn pgnk
j qi { xcn j^a p {u| qt ¾u| ghĀi i gp cf lc gn P²o gvqtu^a i v²v²pgv²v.
o kpf ki o^a u ²u o^a u u| go r qpv d » n i p qf qrlc^a v o w nĀ^l xcn ner euqr v
dcp p²rg ²rgv hqn^a u^a pcm v²x²p {u| gt u²i gk0 Mrgdgndgti g| gn c
o » f u| gttgn nĀ^l p d³/4 u| go r qpv d » n qrkcu c o ci {ct v²v²pgv²v/»/
n v0 Gi {km kn gp euqr qt v u^a uk u| go r qpv c xqrv c vgtxulgt u²i p {q/
o ckpcm mwčv uc c o ci {ct v²v²pgv²v h dd u| gt gr n kp²r0 C p {gtv
| u^a n o^a p { cki j c gr i v g v g nk o gtv c vgtxulgt u²i ²u nĀ^l gvngl gv u/
u²i jĀ p {^av c o ci {ct ²rgvdgp ô c lgr pdgp ²u c o Āndcp gi {ct^a pv ô
i {cntcp go rgi gv g0 Rwd rkeku| knck o w nĀ^l u^a i^a dcp c rgi i {cntcdcp
gn hqt f w » u| cxcn vgtxulgt u²i. nĀ^l gvngl gv u²i. u| gtxgl ngl²u0 C
vgtxulgt u²i jĀ p {^a pcm w f lc dg r r0 j qi { nĀ^l u²i gk p ndgp uqu| qt
Āi { xgl gvpgm c| we^a m ²u h wcm ecj qi { c| qnev c v²v²m r w u| v u w² p
qf cxg f³/4 v gnu ¾nĀ^l u| gn²t ngt gmkx^a i v n0

U go r²rgvugp o ci {ct^a | v. j qi { vgtxulgt ²u nĀ^l gvngl gv u eug/
rgn x²u gugv²p ²xgn p v rgtcm f km gi {/gi { t²vgi u v { j quu| cdd kf
c r w o²i r u u Ā o w nĀ^l xcn ku pci {qdd gtf o²p {ngv ²tj gv Āpm gn
o kpv c| qn cubclv r {cu ner nqf^a uen co gnĀ c o^a t o gi ngl fgw hpcrv
ngl v0 v { c| r f q | cv ²u hnd w f w u ugo ²tj gk gn e² r^a v0 Ngmgu o gi /
i | | f² ugn j cpi u Ān q | v. j qi { c u| gtxgl ngl²u o gi j cv^a p {q| c c|
gt v0 U gttg ngx²u p²rpgm xcp cpp {lc u| Ām²i g. o kpv c uqm x²tv xgu/
vgw u c vlc p qpk d² n xgn u^a pf² nqucp uqtxcf^a utc v²rv o ci {ct u^a i pcm0
U gtgw go rgi gypk j qi { gt kpm hqi {cv² nqu^a i^a v vgtxulgt u²i i gn
ki {gm| km r » vqp0 Kf gp ¾u| ghĀi i²udgp nĀ^l p rgi gu p {qo cv² nq v ner
c mgdgndgti k rtqi tco o nĀ^l gvngl r qpv c < è P go gr i u²i gu gi gu

kp²|o²p{gnp²gm gnu}»tv r²vgu²ug. d^ato kn{gp lgrp²ngp{gm rgi {gpgm
 ku gi {²dn²pv c|qm jcpgo c| qtu^ai vt²rgvk o gi qu| r²u²pcm ²u v²tuc/
 fcm k vci q|»f^au²pcm o²n{tgj cw²dd grgo|²ug t²x²p hgn ngm kuo gt/
 p²Am ²u o gi ngm gt u²gp²Am c|qnev c h r kn²tgnv. co gn{gnp c o ci cu
 o xgn f²u p{wi u kn⁰

Co kv kw c o ci cu o xgn f²u n o qpf. wi {cpc| ²tx²p{gu gi²u|
 mw²Ar qrk kn²l^atc⁰ C n²gn gi { ²xk²gftg p{²Ar² cmu²uk nqtu|cm
 r²gn²gvn²n²» vgo r»dcp go grk ²u gt u²fk c o ci {ct mw²Ar c h r kn²tgk⁰
 C| cmu²uqm gi {dghp»fpcn² o k c|qpdc n²p{vgnp²gm xci {wpm c|
^avgn²pvj gv u²i dk²qu²uc e²n^ad»n c|v co kpgm rgi h dd ²tvgn²v
²rrgp gi²u| xqnc cflc. t²u|gmtg vci qpk⁰ ¶i { ngt²Ap²gm c n²kgvng| m²
 dgp uqtte c wfqo^ap{r qrk kn². c| gi {gvgo k n²tf²u. ner euqr²vdc c
 x^atqr qrk kn²xcn o clf c n²4²r hqm² kunq²m c p²r kunq²m ²u c p²r/
 o xgr²u ner euqr²vdc c| crh²4fk c nek²xcn c o x²u|gv qrk kn². c vgu/
 pgxgr²u⁰ C| gi²u|gv o ci cucdd gi {u²i dg hqi nrhc c pci { pgo|gvpxgn
 rtqi tco o. c pgqpcekpck²o wu⁰ Gppgm u|²rgugdd n²4³ndg xcn² nk²
 xgv²u²v u|qni^anc gnu uqtdcp c mgdmdgti k r vdr²ek²vkne. c euq²pn²
 qtu^ai mw²Ar ku v²4gnx²ugkpgm rgi o qpwo gp²rku²edd ktqf cm k go r²ng⁰
 N^avpk hqi lwm jqi {cp ²tx²p{gu²Ar c| gm²rgvk cnc²xgv²u c i {cnu²rvk
 nkxkgn²n u jqi {cp o ci cuqf qw c|. co kv mw²Ar qrk kn²pcm pgxgl/
 v²Am o xgn f²u v²4v²pgv²Am dgp u|kpv gi {gf²Ar²n²cp nk²qni q|qw.
 t²u|rgvndg o gp j cvm cu pgo |gvpxgn kr tqi tco o^a0

KKO

Vwf qo^ap{rqrknc 2u p²r qmcv^u0 ô Mrgdgdgti ulgtlv c|^arfq|cvqu wfq/
o^ap{r^atqv^u c rgi lqdd ic|fcu^{ik} dghegv^u0 ô C wfqo^ap{qu mwcw^o wpc
lgrpv^uig c pgo|gk²rgvdg0 ô C nku^amco qm ku euk^aij cvpcm gtgfo²p{gu
wfwqo^ap{rqrknc^u0 ô C I{ lgo²p{gi{gvo o gi cmqv^u0 ô C| cwqp>>o lc/
i qpf qrv²tx²p{gu^uug c wfwqo^ap{qu ulgtxgl gvgndg0 ô C| Qtu^aiqu M^up{x/
hqi cm k²u Dkrtqi^ahck M^u4 rqp^u0 ô C Oci{ct Vwf qo^ap{qu Cnef²o lc o gi/
ugi^uug0 ô C Vgto²u gwwf qo^ap{k Mqpi tguul wu o wpi^arcv^u0 ô C| Qtu^aiqu
Vgto²u gwwf qo^ap{k Vcp^aeu²rgtgi^uu^u0 ô C U²ejgp{k Kuv^ap wfwqo^ap{qu
v^utuc^ui o gi ccr^uu^u0 ô C ux^adj gi{k eukci xk ui^an^u0 ô C vj cp{k²rgv/
vcpk kp^uv|gv^u0 ô C o ci{ct eFcj rgo^u vtgx= cnef^an|qm jctc c u²ngu/
h x^atqucr^u0 ô C| 3u| v^upf^u/Ä{ tgpfg²ug= vtxgm c p²rk vj gw^ui gm nkx^arcu/
v^uu^utc^u0 ô C wfwqo^ap{qu 3u| v^upf^ucm hqvqu^ui c c pgo|gk²rgvdg0 ô C ep{wi c/
vqu^ui i c o ci{ct o Ändcp²u x²tj cw^u c rncm^uuc c l³k dgp< c m^uÄr qrknc
ëxgi²u|gv^u hqvqu^ui c0 ô C t²ik qu^uu^am²u c hkuu nku/gpvpgv rtrqci c pfc
o gi hgn gnpguÄn|q^au^apcm n³Ängl gw^ui g0 ô C Mrgdgdgti v n n²r^ug w n^u/
w^aku 3u| gn³Ägv^ugm uqnqf c nÄ^ui c0 ô MÄ^uÄfk o ci{ct kp^uv|vgm²u gi²d
o ci{ct è tu|go gm^u0 ô C| Qtu^aiqu .. u| v^upf^ul vcp^aeu^u0 ô C dgr^uÄfk mwcw
3u| v^upf^ucm0 ô M^uÄr qrknc 2u nÄ^uqrknc c vlcppk nqtu cndcp0 ô Mrgdgm/
dgti dgu²f gk c nÄ^uÄ^uÄ nqpi tguul wqnqp0 ô MÄ^uÄfk n^uqi cv^uqm²u gn/
c^auq^u0 ô Mcreuqrvqm c|²u|cnk tqnp p²rgmgt^u0 ô C nÄ^uÄfk ucl^u c o ci{ct
wfwqo^ap{rqrknc^u0 ô Mrgdgdgti²u c p²ru³k gu^uik Eqqr²cvkqp k^uvgge/
wmg0 ô C Vwf qo^ap{qu V^atuvrvqm²u k^uv|o²p{gm Qtu^aiqu U³k gu^ui g0 ô
C Uv^urcvpxgtukcu vtgxg0 ô C Eqtlp/tgpf ccr^uu^u0

Mrgdgdgti ul^ukgup kf²|vg c| Cnqtck Crqt R²vtpgm wrcf q/
p^uq^uw o qpf^auv jqi{ o k o ci{ctqm o kpf ki wfw^uwm o kv ngnpgp vep/
pÄm²u vgwÄm c|v. co kv rgj ggv0 Co knqt c|v c x^afcv jqi v^um hgn
gnpgp. jqi{ c wfwqo^ap{rqrknc^uv gn ddtgi gn|vg c p²r qmcv^up^an
gl|gn c o qpf^au^ucn x^arcu|qm0 f ncpf>>cp jcp^uÄn|q|v. jqi{ m^uÄ/
rqrknc^ul^apcm vÄd rkn^utg nÄ^uÄn c n^uv rgi hqvqu^ucd c p²r qmcv^u/
p²ro xgr^u 2u c wfwqo^ap{qm hglru^uv^u0 Ngi lqddcp ulgtvgv xqpc
c ngw v grgl²v n hqi xc r^atj w|co qucp euk^arp^u0 èC nÄ^uÄ²u pgo c|.
jclvqi cwc ô jqi{ p²ro xgr^u. xci{ gi{gvo. xci{ o ci cu m^uÄc.
jcpgo c| c nÄ^uÄ²u. jqi{ p²ro xgr^u 2u o ci cu m^uÄc# J c c ngw v
gi{Äw euk^aij cwc. Äppgr pcr lc xqn0 Co knqt U|gi gf gp r^at >t^ap dgnÄn
r^atj w|co qucp exvj cwc c| gi{gvo Ä²r Ärgvkv²u c| è³Ägl tgf km
p²r knq^ui v. c ner euqrvcdp ul ko dqknu lgrpv^ui gv n^u0 Fg pgo

o kpfki eulp^a rj cwc. co kv cnetv 2u Æi { . cjq i { cp ulgtgw xqpc0 M^a v
 u² i vgrgp. jqi { o kpkulgtu² i g gnu ulcnu^a dcp c p² r kunk^a xcn uqmen
 n^a xgugddgv hqi n^a m^a jvcq^w. o kpv cnetv 2u » jclvqc xqpc0 C ulgo² v
^a mcpf » cp tclv v^a tvcq^w. v^a r^a q^a q^w h^a r^a q^a q^w co gpp { k^a g v r^a g v^a r^a f g
 c ëulgtxgù cne^a k f gl² v nk n^a g^a r^a w x^a t^a p^a k0 C p² r kunk^a w i { cp^a k c r^a i /
 ulgt² p { gdd g^a i q^a p^a q^a u^a c n^a n^a r e u^a r^a v dcp ku jcv^a m cu 3^a ul gi g^a n^a v n^a f^a p.
 o gtv uq^a m xcp d^a g n^a r^a 0 G | gn ulgo dgp c w^a f^a q^a o^a p { r q^a r k^a n^a dcp uq^a m^a qt
 ct^a p { r^a i e u^a g^a n^a r^a n^a 3^a ul gi i gn pci { . o w^a c^a u g^a t^a g^a f o² p { g^a n^a v r^a j^a g^a v d^a k /
 v^a q^a f^a cp^a k0 M^a r^a d^a g^a n^a d^a g^a t^a i ul^a k^a v^a p d^a g^a x^a c^a m^a c. jqi { gnu w^a f^a q^a o^a p { o g^a p^a
 cne^a k v c |² tv k^a p^a f^a j cwc gn o gtv c r^a i v^a d^a d k^a v^a | n^a g^a f^a 2 u g c |^a m^a c o p^a c m
 xci { ugo o k^a g. xci { e u^a m^a i c t^a c u^a n^a d^a c n^a g^a t^a Æ^a n^a 0

U o^a t g^a l g^a m c ulgt² p { k^a v^a | n^a g^a f^a 2 u g^a m ku o k^a g^a p^a pci { l g^a r^a p^a v u² i g^a m
 x^a q^a n^a c^a N^a g^a m^a v 3^a p^a v^a x^a g^a m c w^a f^a q^a o^a p { o w^a p^a n^a i u^a c k^a d^a c 0 G | c n^a q^a o o w^a p^a k /
 o w^a u^a n c ë h^a g^a l o w^a p^a n^a i u^a q^a m^a n^a 4^a 2 u q^a t^a q^a w f g o² i q^a w ku j^a w^a t^a d^a g ul q^a f^a q^a w
 n^a v^a g^a i » t^a c n^a k^a c i f q^a w i { g^a t^a o g^a n^a p^a g^a m^a 2 t^a g^a v g o c i^a v u o c i^a d^a c t^a q^a n^a e f x^a c
^a m^a r^a f^a j cwc o g^a i r^a v g e² m^a c r^a e p^a u^a i^a v u v h^a g^a r^a u^a r^a i g^a u x^a q^a n^a v^a 0 M^a r^a d^a g^a n^a d^a g^a t^a i .
 o^a t o k^a p^a v c V³ 4^a v^a p^a g^a m^a k V^a t^a u^a w^a e v g^a p^a 3^a n^a g. o w^a p^a n^a e n^a g^a f x^a g^a v. co d^a f^a e^a k^a v
 2 r^a g^a l v^a g w v^a 4^a v^a p^a g^a w^a f^a » u^a c k^a p^a n^a d^a c p^a 0 U o k^a p^a v n^a w^a w^a l o k^a p^a k^a l v^a t h^a g^a r^a | v c
 v^a 4^a d^a k g^a r^a i^a n^a e v k^a 0 O g^a i l g^a r^a p^a 2 u g. ul c x^a c k f g h r^a i v^a g w g k x^a k^a l c c f v^a m c
 o^a t / o^a t g^a r^a g^a l v^a g w 3^a p^a d^a k c m c v 2u j k^a g^a 0 O² i o k^a n w c n^a e^a k^a l c v^a r^a i g^a u
 o² t^a v^a n^a d^a g^a p n^a d^a q^a v c n^a j^a c q^a w x^a q^a p^a c. c n^a g^a m^a o^a t i { » i { w^a p^a k n^a g^a f v^a n^a 0
 U v j c o c t^a q^a u c p g^a r^a 3^a v c | k f g l g. jqi { c v^a l² n^a q^a l c v^a e p^a q^a m xci { c ul g^a n^a g o k
 n^a k^a i 2 p { g^a m c w^a f^a q^a o^a p { q^a u v^a 4^a g^a n^a 2 u g^a m^a g^a n ul go dgp n^a w^a w^a v go r^a i g^a v^a
 v^a n^a 0 H^a r^a k e w^a r c^a # J c g^a l c ë n^a w^a w^a i p^a k^a e u c t^a p^a m | A^a f w^a » x^a k^a i i c | f c u^a i k
 n^a e v u | t » h c uq^a m^a n^a k^a n^a i d d c | g^a r^a x^a g^a p^a d^a g x^a i q^a w x^a q^a p^a c 0 f^a { c | v ku^a v
 x² ul g^a n^a Æ^a n^a 0

M^a r^a d^a g^a n^a d^a g^a t^a i t^a g^a r^a ku ul^a o x^a g^a v^a u v e u l p^a n^a u t^a l³ 4^a w jqi { o k^a p^a g^a p^a r^a g
 ul go r^a q^a p^a d^a » n c r^a i i c | f c u^a i q^a u c d d g^a h^a g^a m^a g^a v^a u c p^a c i { x^a q^a p^a c n^a w^a f^a q^a o^a p { /
 r^a q^a r k^a n^a c 0 U c | ugo g^a j^a c p { c i q^a i c w^a o g^a p^a p { k^a i . jqi { c d^a g^a h^a g^a m^a g^a v^a u t^a g^a p^a f /
 ul g^a t^a k^a p^a v p^a g o q^a l i c v o g^a i g^a r^a k^a l u^a r^a j^a g^a v^a g^a p^a Æ^a n^a p^a c i { 3^a ul gi g^a n^a g^a 0 W^a c n c t^a c .
 jqi { c ul q^a e^a k^a r^a ku 2u n^a 4^a i c | f c u^a i k r^a q^a r k^a n^a i dcp p² o k ul^a o q^a w^a x g^a t^a g^a f /
 o² p { g^a r^a i t^a u² j g^a l p^a q^a t^a o^a r^a ku n^a 4^a Æ^a n^a 2 p { g^a m o g^a n^a w ku » t^a k^a u k 3^a ul gi g^a m
 ul Æ^a n^a i g^a u^a n^a 0 G^a j j g^a n^a r^a g^a v c n^a w^a A^a r^a q^a r k^a n^a e r^a i v^a d^a d v^a t^a q^a o^a p {^a dcp.
 h r^a i c w^a f^a q^a o^a p { q^a u ul g^a n^a e^a k^a dcp n^a ku d^a g^a h^a g^a m^a g^a v^a u g^a n ku t^a g^a p^a f n^a f^a k^a g^a t^a g^a f /
 o² p { g^a m 2 t^a j g^a v m g^a 0 ë Q³ { cp c n^a w^a A^a r^a q^a r k^a n^a e . o k^a p^a v c p^a g o g^a u^a f^a g^a w x^a g^a v /
 o c i < c n^a e^a r^a u^a dcp t^a g^a p^a i g^a v i c | Æ^a l ul go i 0 G^a i { p^a c i { q^a p ul g^a t^a p { g^a l /
 n^a 4^a 3^a m^a g^a n d^a g^a t^a g^a p^a f g^a l g^a v j v^a p^a k n^a d^a q^a t e w^a t^a k^a w o r^a i 0 co g^a n^a p^a g^a m u^a k^a n^a g^a t^a Æ^a n^a
 M^a f^a i^a t^a r^a g^a v^a m^a g^a n o g^a i^a m^a r^a f^a c p^a k j c | c k d^a c t^a p^a c u^a l g^a p^a Æ^a p^a m v^a r^a i g^a u^a g^a d d . i c | f c u^a i q /
 u^a c d d h^a r^a h^a v^a u² p^a g^a m o » f^a l c k^a 2u h^a g^a n^a v^a r^a g^a k^a v c d^a g^a h^a g^a m^a g^a v^a w 3^a ul gi g^a n^a p^a g^a m
 n^a ku^a o^a f^a j c v^a e p^a w^a n u^a q^a m^a l q^a t^a q^a ul q^a l c v^a v j q^a l j c v^a c j c u^a l q^a n^a r^a p^a v^a 0 G^a i { l »

jgn{tg lwwcqw 34u|v3pf¶ u|kp2p glgtu|gtgu jculpqv jqljcv0 Ngi gv.
 jqi{ gi{/gi{ nko ci cu» vjgv2i 34u|v3pf¶cu nkmÁf2u2pgm n34u2i gk/
 jgl gugvrgi jql|a ngm eucrp k n3vjatqo ngx2udd2 ukngtÁv nkmÁf gv2u
 u|a o n1a v ku0 C xgv o ci cn c|qpdep pgo u|cdcf vcnct2nquuqf pl#
 O2i c p2ro xgr2u gn nreucrvdep ku r g f k i c | l » x c n f t a i d d . g n /
 x2i g | j g v g | c u | a o x g v 2 u 0 J c r r 0 n k u | a o ¶ w m o k d g n g t Á n c p { q r e /
 q u | v n { q u p 2 r k u n q n t c x c n » a v 2 t 2 u u g i { Á w c n n k n e m w f d w m c | v c
 n 3 4 i c | f c u f i k c i q n x g v g p Á n g n d d / w » d d l g r g p v n g | » t k u k v 3 d i d g v g v .
 c o k v c o c i { c t f q i q | » m 2 t v g n k u | ¶ p x q p c i f p c m g o g m g f 2 u g o w p n c /
 v n i g u ¶ o 2 p { d g p l g r g p v c n 3 v 3 4 u | g i m Á v p d 3 4 g v n 3 w 2 i v g r g p Á n k i c /
 u | q r i c . j q i { c p 2 r o x g r 2 u l c x ¶ v u c . d a t f t a i a p c m v g u | k m o 2 i k u
 o 2 i o k p f k i c n g i l q d d Á n g v k d g h m g v 2 u g m n 3 4 2 v c t v q | k n 0 H q n q /
 | q w c d d o 2 t v 2 n d g p a m g | c w f q o a p { r q r k k n t c . c j q n g r g p { 2 u | g p
 e u g n r n 3 4 u | g i g m m g n c n g i p c i { q d d n g j v u 2 i g m c n g i u | g d d t g o 2 p { g m
 2 u o g i x c n » u w f u q m a n p c m u | g o d g p 0 P g h e r g l w Á m g n j q i { M r g d g n /
 d g t i c | a m e o k 2 r g v o k p f g p t 2 u | 2 v r q p v q u e p k u o g t i { c n q t r e v k
 a m e o l 2 t h k Á x q n c n k l » n w f v c . j q i { r r 0 g i { g v g p m Á n g t g u n g f g m k
 v 3 t i { c r i u p a n j c c n k n Á f 3 4 v u | c n g o d g t g m p g o a n p c m c j g n | g v
 o c i c u r v 3 p . g i { g v g p v 2 v g p 2 n v 3 d i d g v x g u | ¶ j g v Á p m p c i { q d d n g j v
 c n 3 t w p m o k p v c o g p p { k d g g i { g i 2 u | g i { g v g o x c i { w f q o a p { q u
 c n e f 2 o k c n g t Á 0 R g t u | g c j j q | . j q i { x c r e n k ¶ { n e m w f d q p . p c i { q d d
 v 3 x r v 2 u o k p f g p n k e u p { g u 2 i v n x c n » o g p v g u 2 i u | Á n 2 i g u 0

Fg pgo h e r g l v k g n j q i { u | g i 2 p { p g o | g v x c i { w p m c n g x 2 u d n n g m
 a r f q | p w p m u c n g x 2 u d n x c r o k v g r x q p p k x k u | q p { m i q u e p o 2 i k u p c i {
 r g o q p f a u c n l 3 t j c v 0 G | g p c | q p d e p p g o w f u g i ¶ g p k 0 e C m i t j q i { h q t /
 i c v l w m k u ô ¶ i l c ô c n 3 t f 2 u v c o c i c u o x g m 2 i . c w f q o a p { . c |
 k t f e m q o 2 u c o c i c u o x 2 u | g v p g o o g l g k x k a i . j c p g o Á x g i j a | k
 p 3 4 2 p { . c o g n { e u c m c m n q t x k t w n j c c w l u c o g i 2 r j g v 2 u p g m o c i c u c d d
 j o 2 t u 2 m g v g x g u | k n 3 4 Á n 2 u p g o j g t x c u | v c g n c u | g i 2 p { u 2 i . c p { q o q t
 f g t o g u l v h c i { c i 0 E u c m e p p c m 3 4 Á n j q i { c o g l i c f c u f i k r e n q u a i
 2 u p p c m r e t r o g p k n 3 r x k u g r v g a n e r f d e p p g o j Á » f q | q w g | g p m g m c |
 a r f q | c v n p c m x a n e r f u 3 w r 0 V a o c f » k w i { c p k u p c i { q d d t 2 u | d g p 2 r r g p
 c | 2 t v g n k 2 i . u v c | ¶ a u w f » v n t h q t i c w m n 3 4 2 d n n g t Á n g m n k 0 P c i { q p
 e u q f a m q | k m g l g p u p g o v e r f n o a u o c i { c t a | c v q v o k p v c h q t t e f e m k
 2 u g m g p h q t t e f e m k n | v 0 e Q 3 { c p v g w g l . o k p v c c j e r f u | 3 4 u | g v 2 r p 2 c
 j a n 3 l a v c u | q d t a u | c x ¶ d g f q d p a c x 2 u l 2 v . c | g p 2 u | n g w 2 v 3 4 p 2
 k p u t w o g p w o a v i 0 C v o c f » m p g o 2 t v k m o g i . j q i { c | Á l j q p c r e r ¶ v /
 j q | a r f q | c v q u r 2 r g m k u n g m 2 u e u c m c | c m w n Á c 2 t x c r o k v c o l 2 t v o g i /
 h k g w Á p m c o k v p g o c l a p f 2 n d c n e r w p m j c p g o o c i w p n p c m a r f q | c /
 v q m e n o g i j » f ¶ q w w p n 0 — i { x c p g l . o k p v c j q p c r e r ¶ v u c c l 3 4 f g v

pgo gr̃i gr̃h̃i r̃cpwpm jcpgo o ci w̃nj q| ku ngm ñreuc̃p̃wpm̃0 ěGi { p²r eucm c|cn u|gtg| lqi qv cjjq| c l̃f̃f̃j ¾. co gñ j c|¹lc. j c c|v j c̃ij c̃vc̃wp o xgmgn o ci¹ajq|. pgo|gk i²pkw|¹ajq| ñreuc̃f̃c0 C j c|c l̃f̃f̃l²tg qp̃q̃w x²tgp ñf̃k̃Ān c o xgm²u cm̃q̃¹uqm c|qm co gñ gm t²x²p c pgo|gv o ci¹v c j c|c l̃f̃f̃l²xgn gr̃k̃¹cu|j c̃vc̃wp̃wn gn lgi{|k̃i0 DĀu|ng t¹. jqi { c x²tdgrk nkui c|f¹m glv o gi²tṽw²n0 Go r̃gi gk jqi { uqj c ñ¾ ĀnĀm gi { ugo ṽgw pgnk u|go tgj¹p{¹uv c| Ā0 p0 ěh̃q̃f̃f̃q̃w i Āñ²t̃ṽ. jqi { v0 k0 c pgo|gk ñvcu|ṽ»f¹m w̃p c tqo qm c̃ñn gn u|¾ c o ci cu pgo|gk ñw̃Āt¹v ki {gñ| gw nko gp̃vpk0 Wi {cp̃|v c o c/ i c̃vt̃¹uv h̃i {grk o gi gi {²dñ¹pv U|gtk¹pcm r̃ctcu|ṽt̃gf̃gv x̃g| gv t²ṽgi²p²n ku< gr̃ ugo uclp¹nc c r²p|v c wf̃qo¹p{qm r¹tṽq̃f̃¹t̃c0 Uq̃tuf̃³pv pgm ṽct̃q̃vc. jqi { c Ā wf̃qo¹p{qu gt̃gf̃o²p{gñv d̃k̃ṽq̃f̃/ x̃pk wf̃» m̃w̃»o w̃p̃ñe gi { r̃k̃ñp̃c̃t̃c ug¹ñq̃p o gi0 M̃vcu|ṽ»f¹m d̃gṽv |²u²pgm ¹²ng x̃q̃p̃c. j c g|gp c ṽt̃gp ngo c̃t̃c̃f̃ w̃p̃ñ0 ěC|qm c pgo/ |gṽm ô ¹lc ô co gñ{gñ²n pgo h̃q̃ñ|km gt̃gf̃gk ñw̃c̃¹u. co gñ{gñpgm o²i h̃k̃uq̃f̃¹m ku eucm c̃t̃c̃ u|qt̃¹m̃|p̃cm jqi { c| k̃f̃gi gp p²rgm¹ñcn h̃gm̃w̃c̃q̃w ki c|u¹i q̃ñṽ ṽx¹a dd̃ṽt̃lg̃u|²m pci { pgo|gṽñpgm pgo pg/ x̃g|j̃gv n0 Gi { k̃ñ|gp pgo|gv ṽcp¹t̃ck eucm k̃f̃gi gp ñw̃Āt¹p̃cm eqo o ku x̃q{ci gw/lgk wc|»k Āi {p³ñgk0 Gi { pgo|gv pci i¹ eucm cm̃q̃t̃ r̃gi gv j c ñgd̃gr̃² d̃gp ¾p¹m» ñw̃c̃¹u h̃q̃ñ|k̃n0 G|²tv c pgo|gṽm²ng̃v² d̃gp f³pv l̃gr̃pv u²i g x̃cp c̃p̃p̃cm x̃cp/g q̃w̃w̃f̃qo¹p{r̃q̃k̃k̃ñe. ki gp. xci { pgo 0

D̃k̃c̃m̃ cu h̃r̃i gi{|²ugk ku gr̃t̃w̃i¹m o gpp{kv ṽ¾ṽg c h̃g|²v c u|Āñ u²i gu cp{ci k h̃f̃g|gv gn ṽt̃go ṽ²p. ñĀi³p³ũgp c| gm̃ k̃f̃ d̃gp. co k̃q̃t̃ eucm gr̃k²x̃g wf̃q̃w pci {q̃dd ¾u|gi h̃f̃g|gṽv d̃k̃ṽq̃f̃c̃pk euq̃r̃qt̃ṽcp̃ h̃r̃i d̃w̃m̃c̃p» ṽt̃x̃g̃p̃gm o gi x̃c̃ñu|¹u²t̃c0 Gi { k̃f̃ d̃gp uq̃ñṽ h̃q̃i r̃m̃q̃|q̃w gi { ěm̃w̃Āt̃co gpv uq̃t̃u¹ṽm̃ i q̃p̃f̃q̃r̃ṽ x̃c̃r̃i Gpp̃gm l̃¾k̃f̃ gm̃²d n c̃ñet̃c̃ o gi eul̃p¹ñk r̃i0 c ux¹dj gi {k euk̃r̃ci x̃k̃u¹ñṽ gi { r̃c̃ñj¹a|cn guṽgi o²i gi { x̃k̃ñ¹x̃c̃ñ g̃dd n c̃ñet̃c̃ d̃gu|gt̃g|pk c pci { t̃g̃t̃c̃ṽq̃t̃v. wi {cp̃g̃dd n c̃ñet̃c̃ ñk̃r̃¹p̃k̃ c ṽj̃cp{ k²ng̃w̃pk¹ñqo¹uv. c d̃g̃t̃r̃k̃pk xci { c r¹t̃k̃uk wf̃qo¹p{qu k̃p̃ṽ|gṽv. g̃dd n c̃ñet̃c̃ ñgi²u|¹p̃k̃ c ñi³p{x̃ṽt̃c̃ñv. c r̃cd̃q̃c̃w̃t̃k̃so qm²u ñi³p̃k̃ñi m̃h̃u|gt̃gr̃¹ṽ. ñet̃dc/ j̃gñ|g|pk c o gi {gṽgo i²r̃j¹a¹v ũd0 C ṽt̃x̃gv gi { c̃m̃ñqo o c̃ñ c p{k̃/ x¹p̃q̃u¹i gn w ku o gi o gi ñf̃g̃w̃0 Q̃ñ{c̃ũf̃²ng o gi q̃f¹t̃c̃ i q̃p̃f̃q̃w. o k̃p̃v co k̃ñ|gp c̃p̃p̃cm k̃f̃g|²p c Dc|k̃k̃ñe/ñi³ẽu³p x̃q̃n0 M̃²u dd̃ g̃dd n c̃ñet̃c̃ x̃q̃p̃c c ñi³q̃m̃c̃¹u j̃k̃p{c̃k̃ h̃ngi c ṽp{c̃k̃ k̃uq̃ñeĀi { ṽr̃i g̃ug̃dd ñk̃/ h̃g|h̃g̃u|v²v ku h̃f̃g|p̃k0 D³t c ñk̃k̃gr̃t̃g pgo ñgt̃Āṽ uq̃t. o²i ku l̃gm̃go| c̃f̃c̃r̃ m̃h̃g|ṽ¾²ug̃t̃g0

M̃f̃r¹a|c̃ṽu c| c o w̃p̃ñe. co kv M̃r̃gd̃ñud̃gti eucm g|gp c| gi { ṽt̃Āgṽgp. c wf̃qo¹p{r̃q̃k̃k̃ñi x̃c̃ñ ñreuc̃r̃ṽdep x²i|gw0 U o w̃p̃ñe/ o»f̃u|gt²d̃gp ku x̃cp x̃c̃r̃o k ñĀi³p̃ñi gũgp l̃gm̃i|gṽu0 Q̃ñ{cp̃ d̃gm̃.

ul qtqu 2tkpungl 2udg rfr gw o ci wmen c wf»uqmen c| qtul a i pem
 l>hcto a p o kpf gp xcrc klg xcn» ul cngo dgt2xgn co kn{gptg wfqo a p{/
 r qrkknf pm v4v pgv dgp cffki crki cnefv r2rfc0 Gn nji gv t>rc o qp/
 fcpk jqi { o kpf gpnkv ku o gtv. pgo eucm c| qnev. cnkm o a t xcrc kv
 ul a o fjqwcm jcpgo c| qnev ku. cnkm n tgo 2ng. jqi { o clf xcrc knqt
 ul a o fjcpcn0 Vwf pk cnetv 2u wfqw ku c tgo 2p{tg lqi quf}» hlcwqnt»f0
 Dk cm cu dgu 2 n gv ugn dgp. ul ngdd 2tvngl rvgngp. v i cddn34 cpn2/
 vqnqp. 3/4u ghqi rcn» nupi tguul wqnqp rt>d a nc c ul cngo dgtgm dgxqp a/
 u xeno gi a mcr fjcpc k ul Am2 i rvgngv. c vggpf ngv. c nixksgno »f q| c vck0

O wni l a v ngmkgi pci { o 2 t v ndgp gn tgrgp f jgw c| c o xgn f 2 u/
 v4v pgrgo d n grxqpv o gi i { | f 2 ug. jqi { c wfqo a p { r qrkknw. cnk/
 p 2 n hqpvcu c ul gtxgl 2 u. fg o 2 i hqpvcudd c ul gtxgl 2 u x 2 i u e 2 rfc. c
 o gi hrgn wf»u o wpcngt m dk v u f uc. uqmen n3pp { gddgp u gi { Aven
 pci { qdd u f wudcp f qn i q j cvkm c nku/ 2 u n34 2 r a nco qndcp. o kpc
 v i cu o co o w d k qf cm cndcp0 C wfqo a p { r qrkkn ul gtpvg qtej kf gc/
 ngt v u l gv co gn gv o a t eucm c 2 tv ugo nji gv m A ngt lgu i c f a m q f a utc
 xcn» r w k w p k w o qnqp dgtgp f g l pk o gtv o kpf gp eugt 2 r r gn m A n p.
 ul kpg gi { 2 p k gi ngm hqi rcm q l p k0 C o 2 t v gm a vgnkvj gv u 2 i g n3kgv/
 ngl v dgp c wf»uqm f j m o x 2 u l gm o a t eucm c dgp u 2 i g u g d d u l go 2 n k
 ner euqrvcqm nji gv u 2 i g t 2 x 2 p ku n3pp { gddgp k a p { f j c w n 0 V 2 v m 2 p v
 a n f j q w c hgn u v v g r v u l a o vncp r 2 r f a xcn ki c| qnc. jqi { c n k a nco qm
 nk a ncp cmrc cucm c wfqo a p { / k qf crqo / o x 2 u l gv a t v q r u vrc l a w f 0
 C o co o w a nco qm pci { qdd f ko gp l k k r p f gi g u g p o gi p g j g f k m
 xci { 2 r r gp nji g v g v p p 2 v g u l m c | g r p i g f j g v g p p p g m o k p u f g w
 gi { 2 p k ngl gr u 0 G t t n d e t a l c D g e n g t . c r q t q u l m w w u l o k p u l v t k u
 r e p c u l m q f q w p g n k 0 X c n d e p M r g d g n d g t i l > h c t o a p o k p f g p n k n w f v c .
 o k p f q n i q l m o k v n j i g v v r g x a t p k j q n w f p c n i v d d g v j c u l p a r p k 0
 O 2 i c | k h A w f » u r c n p v m e n k u c n g i p c i { q d d u l g t g v g n x c n d e p c |
 q t e j k f g c / n g t v u l i q p f q u a i a x c n h q i r c m q l q w < d w f f j q w c . k a p { f j q w c .
 u g i f j g w g n g v . A l w n d » n g j a t f j q w c c | c n e f a n q n e v 0 N g m g u g f 2 u 2 v
 h q n q l v c | c v r c u l v r c v . j q i { c j a d q t A v n 3 k g v k f m x k i n w n A /
 r q r k k n l a d c p a n c r f d c p f q o k p a n c u l q t q u c d d 2 t v r g o d g p x g w w f q /
 o a p { r q r k k n c 0 U d a t u x a t i q w c o g i 2 t v u w p . o 2 i u g o u q n e v d a p v c .
 j q i { p a n p m p p p g m c u l » p c m o 2 i c | g o n g i g v u g k u u q n e v v o c f a u t c
 k p i g t g n 0 0 g p v c o c i c A m a p 0 0

Gru pci { qdd wfqo a p { r qrkknck cmq v uc. co gn gv o ci c ul g/
 t 2 p { g p a t g p f g l 2 u p g m o k p u f j g w . p q j c l > x c n v 4 d x q n v c I { l v g o 2 p /
 gi { g v g o o gi ul gtxgl 2 u g 0 G p p g m n 3 4 x p c r c k o 2 i o k p k u l v g t u 2 i g g n w .
 c V 3 4 v p g m k V a t u w r v g p 3 / n k u l 2 n 2 d g p u l g t l g w v r c u l v r c v q m c r r l a p
 d q p v e n q l v m n k g n 2 l 2 d g p 0 C | c n e k » o 2 i c u l q t q u c d d 2 t v r g o d g p

xgw o gp^vu nqtu|cnf dc gugw co knqt Mgdgnudgti pgm o kpf gp Āi {gu/ u²i²tg u| Ām²i xqmw cj|q|. jqi { c Vcmet²nqu^ai k Dk qw^ai ěcnp/ o gl kpi c o ci {ct mwm^atc jcl>kv pci {qdd gi {u²i gm grxgl v²ug p²m^an^a vncw|qj cuuc0 Dk cm cu lgi { |gvk dgp o^at t²i gddt n c n²kgvng|. u| nu|cxAu^ai^adcp ku uqnevo qpf» hgnlgi {²uv vnf rtwnc ěVtkuc r0 Ngx²n^av^t. K0 M²p{xv^t. K0 O Ā gwo i 0 Ogn²lg lgi { |k jqi { c Ngx²n^atcv c dgnĀi {o kplu|v²tkwo jcv²un²4²d n^av ngm jgn|gl pk c n²4 qmc^vuĀi {k o kplu|v²tkwo j q| 0

C v²4x²p{|lxcxurcvv o^at 3;440 lĀrku 480^ap. vg^av p²j^ap{ j²wgn nkp²gxgl²ug w²p dgp{|Āvwc c n²kgvng| e²p o gn< V³4x²p{|lxcxurcv pgo|gk pci { m²4i { lvg²p{gkpm ³p²n²to^ap{|cv^t>n²u u|go²n^a|g^am o k² u²u²t r0 C lxcxurcvd>n rgw c| Qtu^ai qu Oci {ct I { lvg²p{/ gi {gvo gv r²vgu²v 3;44< ZKZ0 v0 C I { lvg²p{ gi { gvgo g²pxgl²uv Eqpej c I { | cl^aprqw0

C| Āl u|gtxgl gv o kpv lqi k u|go²n{k²i i gn d²l>» ³p²n²to^ap{|cvk vgv gi {gu²lgwg o ci^adcp c| Qtu^ai qu Ngx²n^atcv c Oci {ct Pgo|gk O Ā gwo qv c| Qtu^ai qu Oci {ct U²ro x²u|gk O Ā gwo qv c| Qtu^a/ i qu Oci {ct Kcto x²u|gk O Ā gwo qv u dk qp{qu lqi hppvct^vu²cn c d²w²cr g²uk gi {gvo n²4p{xv^ta v ku0 Cm²q²lc c|qpdcp twi cm cu. hgl/ n²f²utg n²r gu u|gtxgl v²pgm u^apvc u o kpv k²gpj gl jco ctq²cp j q| |^a/ eucvqncrm c n²kgvng| k²v²|o²p{gn< c Dk²r²qi^a t² hck M²4 r qpv. c xc²n^au² u n²4 qmc^vuĀi {k o kplu|v²tkwo n²4p{xv^ttc. c vj cp{k² ²rgwcpk k²v²|gv c d²euk v²4^vpgk k²v²|gv²u Eqmgi kwo J wpi ctkewo. c dgt²rkp² u t>o ck k²v²|gv²gm c ux^adj gi {k euk²ci xk²ui^an. c u|gk²o qn^ai kck k²v²|gv0 Oclf^a vxgvg c| ³4u|gu j c|ck n²4i { lvg²p{gm h²4²ak hgn/ Āi {g²vgvku0

U|go dgp p gp u|gtgr gn c| k²v²|o²p{ o gi cm²v²u^ap^an Mlgdgn/ dgti pgm c| c uqnu|qt go rgi gvgw n²u dd ku n²kgvgw wf²qo^ap{/ r²q²rk²ck g²i qpf qn^auc. co gn²pgm n²p{gi²v cddcp lgr²4j glĀm o gi. jqi { c| gnu|ki gvgw k²v²|o²p{g²ngv r²gv rgi dgtf gk lgr²i Ām²ru²i dgp jci {^au²xcn h rgi gt i { l²v²u e²n^ad>n pci {qdd gi {u²i gmn² cl^aprcv²u v²0 ³4²gpk0 Uqnu|qt j cpi q|vcw. jqi { c wf²qo^ap{r²q²rk²kn²dcp c pci {qdd. ^av²qi>dd u|gtxgl gvgm nqt^av² r²Ān0 H rgi cttc xk²{^a|qw o²i ku. jqi { wf²qo^ap{r²q²rk²kn²l^adcp o gpn v²4²dd wf²qo^ap{²u o gpn n²gxgugdd r²q²rk²ne rgi {gp0 G|v c e²n^v ô o kpv r²vpk h²i lwm ô gnu uqt/ dcp c| cwq>o ke n²2^r ²u²xgnr t>d^anc g²tpk0

C| cm²qtk jgn|gv o ci {ct^a||c. jqi { gt ugp j cpi uĀn|q|vc c n²4m²i o g²vgu²i gv0 Dk qp{qu c|qpdcp. jqi { h²ij cu|p^anc c| cm²m cv ct^ap{r²i pci {qp gn p{³4i wf²qo^ap{qu ucnwo qm hgn² n²l² v²u^atc0 C| gtgf gk o ci qv cm²q> I { lvg²p{gi {gvo cm²m c|qwck

gni qpf qñ u^a dcp j^a tqo euqrqtvc qu|nqwn< wf qo^a p{qu vku wku gn m
 vej plnek ugi² fu go² n| gv. n⁴ ki c| i c^v uk cmem c| qwn0 C wf qo^a /
 p{qu vku wku gn m f^u a^o v c| cmqt k ngtg j| n^r guv ;9/dgp^a ncr /
 vqc o gi 0 G| gm cmem c|^a u^a p^a n f³ p^v hqvqu^a i^a o q| cpev. j qi {
 ngv c I { lgo² p{ gi { gvo vcp^a euc lgr⁴ k u c o kpu| vtpgm eucm x² w/
 lqi c xcp0 C o An u² vert>| qw nku u^v wuck jgn| gw gn p{v lgrpvgw
 u^a o wntc c pci { qdd o q|^a uk rjgv uⁱ o gngw c uqmen nfxgl dd
 gkpf w^u 0 Mrgdndgti gl gmgn c|^a nⁱ uqmen c wf qo^a p{ qu w^r pr> w^u uv
 cnetv² n^r pn| vpk0 Gpp² n hqvqucdd u| go rqpqv cki kuo gt0 Dk qp{^a tc
 ctte i qpf qñ. ô co kv gi {² dn^r pv v⁴ ddu³ 3⁴ nkhlgw ô j qi { p^a n^o pm c
 xku| qp{ qm ucp{ ct^a uⁱ c n⁴ gvngl v² dgp pci { qp uqm vj gw² i gmcm>/
 fqw. kf gn w r⁴ v. o gtv xci { c m^u n⁴ Am² p{ gm xci { c| gl gn v n
 ku hqu| qw dgu^a nj cvvcp^u i r^a n^a lwnv ngw² v⁴ vgo Gi² u| mwn^u /
 rqrkn^l pcm gi { km rⁱ h dd o q| i cv>lc c| c v⁴ gnx² ug. j qi { c vj gv
 u² i gm nkhln f² u² j| u| Am² i gu cv qu l² t^a v o gi vtgo wgo Gppgm c
 e² pcm u| qn^a n^v tc tgpfgng t² u| dgp c I { lgo² p{ gi { gvo gv ku0
 C| v cnetlc gr² tpk j qi { j c|^a pm c l³ k dgp pg rⁱ { gp c u| gngk² r² v dgp
 êc v⁴ v qu| nrqm² u c fgt² ndcp ngw² v⁴ v l^m qtu^a i c i 0 J cpi q| xvc.
 j qi { êc pgo| gv n⁴ o gi dgeu^a r^u v⁴ d o gni² tg xcp u| Am² i. jc c| v
 cnetlwm j qi { v^r l gup nkhln flgpgm vj gw² i gu go dgtgk^o 0 Mrgdn/
 dgti gni qpf qñ uc cmqt hrgo gn j c^v u^a xqm0 M² u dd. co knqt c v^k pqp
 ntu| cm gnj^a > f^a uc² u gl gphgn^o 2 i c i c| fcu^a i k x^a nⁱ ku hlvqi cvw
 dpp^a n^o gv² r r gp gl gm c wf qo^a p{ qu kp^v | gvgm gi { kf tg o gi vngm
 c i hqi ncm| cvw fkr^o a uqncm² cmqt tgo² p{ vrgp o gpgw^a | cf ck/
 xen cnk p² jc² xgnki ku u| qtqpi xc x^a t^v m j qi { r^a n^a lwnq² x² i tg/
 xercj^a tc gkpf vj cu^o pcm c r wu| v o gi² rj gv² uv lgrgpv rⁱ c m> dd
 vku wku gn khqu| cvnki 0

Hgn p xqp^a uc xqv c| À u| gtxgl gvgm o gu| go gp cwqp>> o k^l c0
 Vc^r p pgo nku t² u| dgp c lxcu^o vcm gl c rqpvc ku j q|^a l^a twv c j j q|. j qi {
 c pgo| gv i r^u gp c vⁱ ti { c^r u cmem^a xcn u| kvp Appg² n^o gu j cpi v^o v
 wcmqf qv0 Gij cni cvcm c u| go² n^o gung² ugm c x^a fcu^u f^a /
 uqnc o k^o j c 3^u u| gdgu² ngm xqpc xc^o k v^o wic Fgk^l r^o n^o v^o j q|^a uc
 2^o fgn² dgp0 Mrgdndgti ku o gi j cvwcp^a ncr / vqc o gi. j qi { xcp^o cm
 êqf{ cp pci { n^r t² ugm co gn| gndgp ki gpku gi { gv wf wpm² vgl^o 0 C|
 gn cf> ku p{ qo cv² nqucp n^o go grk c| cwqp>> o k i qpf qñ v^o pem hqvqu^a /
 i^a < êC rⁱ k| > dd² t² u. c hclul gtgv^o v⁴ g² t| km nk gl gnd n c dgv n^l n
 2^u co knqt c nqf kkn^u vt c| 3^o n^u to^a p{ | cvk grk^a nⁱ ur qpv^a tc jgn| gl /
 nfxg cnetlc vx^a dd² r^o | vpk hlgul vpk i { cter^o | vpk gl gngv c| kp^v / /
 o² p{ gngv. dk qp{^a tc r^o mk u| go gk gn w r^o dgi gw c r^u | cn^o | qv t² u| gm
 u| qo qt^a uqtuc. cj qn c o ci { ct r^a u| vt v⁴ gngv o c o^a t eucm c| qm c|

kpʷ|o²p{gm nʳxkugrkm co gn{gm pgo ^amco k l^atu|cxi qp l^atvcn(00
Ok ngppg o quv Gtf²n{dgp. ok ngppg |u|cnqp ²u F²ngp. jc pgn²pm
o kp²n v̄{d ³pnqto^ap{|cwk lqi qmnen d²l}» ²u ucl^av r^ad^ap. ucl^av gtgl²d n
²n kpʷ|o²p{Āpm ngppgA000 G|gnḡgp c rctci tchwqndcp. glḡndgp
c jkfgi ²u p²o c dgv ndgp glḡm c| ²t|²ugm ²u i qpf qrcvqm p{gtvgm
nḡgl|²uḡ 0

C I { lvo ²p{gi {gvo Mḡdgnḡgti gri qpf qn^a u^a dcp pgo gi {/
u|gt nqngi k^aru u|gtx. jcpgo gi { . c| ^amco wⁿ uqm vgnkpvgvdgp hĀi/
i gvgp. v rg o kpf gpgugtḡ n²Āp^am» lqi k u|go ²n{k^ai. co gn{pgm ³p/
^am»u^ai^a v cmqwlc v̄{4x²p{jql^auk Āxqp dḡvq|qwc u co gn{tg c nqt^addk
^amco k kpʷ|o²p{gm wclf qplqi^av ku t^atwj^a|wC| cwqp»o k^av c| Ā
u|gtxgl gv vcp^aauc i {cnqtqf. co gn{dgp jgn{gv hqi rcpem c| kpʷ|/
o²p{gm gnu vku wkugn k cnkm è²rgvĀm lcx^av c| knḡv kpʷ|o²p{gm
n²ḡgn^an² dgp v̄{4x²m cppcm u|Ām²i rvgkv rgi n²ḡ gḡddt n kuo gtkm u
xgrg xc^au^ai i cn ³au|g xcpem hḡttxi 0 OgnḡwĀm jgn{gv hqi rcpem c|
gi {gvo ²u o gi {gvo vcp^atck cnkm c o gi hgrgn wfqo^ap{u|cnqmmen
hqi rcmq|pcm ²u c| w^apr»v^auv c rgi lqddcp kuo gtkn 0 Jql|^alwm eucv/
nq|pcm c o ²tv m cnkm o q| r^auĀmgn ²u v^atucf c^ak hĀi i gvgpu²i Āmgn
i {cter q^amc| gi {Āvḡju c wgtgl²v 0

Mḡdgnḡgti vto ²u|gvgup vku v^adcp xqrv c|cn jqi { gi { kn{gp
u|gtxgl gv o gi cmq^av uc c n²ḡ qmc^auĀi {k o kplu|vt t²u|²t n pci {hqnĀ
³pnqt^ar|vq|^auv lgrgpv ô fg ²r rrgp gl v cncv# U|gtvgw xqpc o gi/
cncf^an{q|pk jqi { c o ci cu nwnĀc k^ap{q^au^adcp ²tx²p{guĀn cncr/
grxgm gi {/gi { o kplu|vtx^anq|^aup^an rgi c^add ku ³au|gmw^a|^anflcpn0
C| cwqp»o kc. c fgegpvcrk^aek» ô o kv c n²ḡvng| ndgp o²i v̄{d/
u|³ o gi hki {gnḡvĀm ô gi {km rgi h dd k^ap{q^a i qpf qrcv0 Xci {
kpvgp^apu ngmgp. ô gn²mgf km v̄{4x²p{lxcuv^apcm kpf qnq^au^a/
dcp ô xci { ³pnqto^ap{|cwk grk0 C| kpvgp^apu pgo tgpfgm|p²m c
ngm u|cnkuo gtgwn0 Octcf c| ³pnqto^ap{|cwk grx. co gn{t n c|
gi {gvo gm ²u wfqo^ap{qu cncf²o k^am v̄{4v^apg²pgm vcpw^ap{q|^auc
uqt^ap c|v^a mcr q^awc o gi. jqi { c o ci cu o xgm²i kpʷ|o²p{gk²n
^anc^adcp gl c vto ²u|gvgu nqto^ap{|cwk hqto c0 G| cncro cupcm
r^au| km ctc. jqi { c rctro gpv ²u c| kpi cf q|» n²ḡ x²ng²p{ jcv^au^av
c o ci cu² nwnĀc kpʷ|o²p{gk²gm ²rg²d n rḡjv rgi nku|qt^auc0
èOkpfgp gn xqpc xgu|xg. jc c r^atr qrk^ane dḡv²pg Crqm» ²u Okpḡtxc
u|gpv dgtngkdg u qw c rgi i{³pi²fgdd xk^ai qncv gnrcqp^ai 0 C|
gn²qpf qn^a u^a dcp c I { lvo ²p{gi {gvo gnu uqtdep wfqo^ap{qu u|gt/
xgl gv co gn{pgm o wncn²ḡdgp gi {dghp»f km c mwc^av ²u nq|gt/
x^ar^au0 U o kv kn{gpv n²ḡgn²i²pgm vctvc gi {u|gt u o kpf gpnqtcc
o gi x²f gn gl pko kpf c dĀqm^aek^axen o kpf c r qrk^ancnu|go dgp0

O²n{gp^a v²t|k c pgo o kpf gppcrk²u vcr¹p pgo ku nqtul gt kic|u¹iqv< hAi i gwgp²i p²mAnpkeu wf qo^a p{qu mwcv¹#

C| gi {gvgo gm²u cnrf²o k²m ul gtxgl gv²pgm vpw^ap{q|^auc o gmgw Mrgdngdti gv c| cwqp>o /o gi qn^au o gnr^a nfiqvc c o ci {ct cmqvo^ap{ gi {km hqpqu crcr grk²pgm vku vrgvg ku0 U|gtkpv c t²ik o ci {ct lqi³pwf cv c n¹4 rqpwk jcv¹u¹iqm vAn^ai qu jcv^apcm gmgp/ uAn{q|^auc e²ri^ad>n o kpf ki ul fkgupp ul gtxgl gw cwqp>o jcv¹u¹iqn<0 J q|^al^atwv gppgm c v¹4gnx²upgm nktglrgul²u²j| c| c n¹4Ao²p{ ku. jqi { n¹4 rqpwk jcv¹u¹icpm uqmen kpn¹dd nk xqncm v²xg Cwul vlc p{go^au¹pcm²u uqmen ngx²udd² xqncm c pgo |gvv hgp{gi gv xgl v/ fgo gmgv ul go dgp gmgp^am¹r gugm o kpv c| cwqp>o vgu¹ngvm c v¹4x²p{jcv¹u¹iqm c x^ato gi {²m ud0 Vgj^av Mrgdngdti ku²v wf c/ vqcp c o ci {ct jci {qo^ap{ An^av l^atv. co knqt An cwqp>o k²nev vtgo vgwuc| qnevdk vuf²mqmncd^au¹| v n¹4Ao

Mrgdngdti t n n¹4 wf qo^au^a jqi { gt u cnetv^a go dgt xqm. nktglrgw hrgn u²i²t|gwgn vj^av gi {^ancr¹p pgo tkcfv cv>n xku|c. jqi { o ci c kpv²|ngf¹2m c ucl^av gri qpf qn^auc ul gtlpv0 U o²i ku euqtd¹/ vqc c ucl^av jcv¹un¹4²v. co knqt c ul f¹k²j| g| cpp{ktc n¹4 gr¹m kpv²| / o²p{gmdgp c| Ao p0 ej cvm cv ngl²d n nictv0 Dk qp{qutc xgj glAm jqi { pgo c hrgn u²i gn n hwco qf qw o gi. jcpgo grk crcr qp fqn/ iqlqv0 C o ci {ct v¹4v²prgo o gmgw. co gnr¹pgm x^anq|cvqu gugo²p{gk n¹4³av cpp{ku|qt jAn>fqw xku|c c hAi i gwgp²i k i qpf qrv c| cwq/ p>o k²m ucu²ul nglg. jcvw t^a o²i c| c| grk^a n¹ur qp v ku. co gnr¹gv c| cpi qn rctro gpvctk¹o wu vpw^ap{q|^auc gt u¹lgw o gi dgppg. jqi { v0 k0 c| cwqp>o k/i qpf qrv²tx²p{guAn¹ug wvcl¹qpn¹r r gp c rctro gpvctgp¹ul gt ul gtxgu nki²u¹ f¹v²ug0

M¹v²i vrgp. jqi { c I { lvo²p{gi {gvgo dgp v¹4³An kpv²|o²/ p{gm c|^aul gtxgl²u w¹p pci { hmgpf An¹ugp o gpvm ngtul vAn0 C| Qtul^ai qu Nvx²n¹t o gi ncrv c vgej pknk²u o x²ul k ul go rqpvd>n gi {/ ct^apv c nqt ul p¹xqpcr¹p^am An qwj qp^av »u dgtgp¹g²u²v0 C Pgo |gk OAn gwo t²ik i {³p{³4 2r An¹gv ungt An c o x²ul k nkn¹r|²u rgi eug/ n¹n¹gdd n¹tc p²mAn o gi pci {qdd¹cpk u gi {²dn¹pv ku vjgto gpv¹ vgw²m c| 2r An¹gv c vto²ul gtlk|k v¹tcn nkn¹4³vg²u²xgn²u o^auww xc> grj gn¹g²u²xgn0 - grj gn¹g²uj| lwwq cfflik o²ncvcp n¹4/ p{gl gv²d n nktgt An¹g c P²r tcl|k OAn gwo0 C U²ro x²ul gk OAn gwo c t²ik O euctpqm go grv²xgn d xAn cjqn c ZZ0 ul o icr¹t¹lc lwwq jgn¹j|0 -tc tgp¹g¹v²m c| Kcto x²ul gk OAn gwo qv0 Fg pgo eucm²r fmg²ugm An grj gn¹g²ugm Altctgp¹g²ugm v¹4v²pvgn< xqncm lrgpv u x^au¹tr¹uqm nki²u¹ f¹vgw²m c j^adqt Adcp j¹p{qucp dgl gt| gw n¹4p{x/ cp{ci qv ul gtp¹ugp vqx^a ddhglrgul vgw²mc vku vku¹gn ku¹ wuvud0

C v̄tucfcmo ku hriki {gnv c Mrgdgnudgti v n ngj fgo 2p{gl gw jcvcm cu o wpn̄t̄c0 C| c| a r̄f q| c v̄n̄ u| ū i. co gn̄ wf qo a p{qu k̄p̄ v̄ / o 2p{gl p̄mgn ul go dgp o k̄p̄ j c o a t n̄k̄x̄ḡ ul gw x̄q̄r̄c. Alt̄c 2 r̄ḡ f̄ v̄0 P go x 2 r̄ḡ v̄ḡp. j̄q̄ i { gl 2 r̄r̄ ḡp c d d c p c| k̄f dgp v̄4 v̄ 2 p̄0 Mrgdgnudgti. co kn̄q̄t c I { l̄v̄go 2 p{gi {ḡv̄go ḡv o k̄p̄v̄gi { 3̄p̄ a m̄ u f̄ q̄w̄c. dḡx̄c̄m̄w̄c p̄ u| a o f̄ q̄w̄ ku c v̄tucfcmo a r̄f q| c v̄n̄ u| ū i 2 t̄ḡ0 C| a m̄o p̄c m̄ u ḡp̄n̄k̄ ugo ul ḡt̄ḡv c f̄ p̄k̄ ēc| c f̄ » j̄ k̄x̄c̄v̄n̄ ô o q̄p̄f̄ v̄c ô p̄go c̄m̄c̄m̄ cu r̄ḡt̄ūḡn̄| c| k̄p̄ v̄ | o 2 p{ḡm l̄c̄x̄ a t̄c ul q̄n̄ i a m̄ » c f̄ qo a p{q̄m ul a o a t̄c̄i 0 C| c f̄ qo a p{q̄m n̄ 4 Ān n̄k̄go ḡr/ j̄ ḡv̄ Ām i t̄ » h C r̄r̄ q̄p{ k U p̄ f̄ q̄t o gi d̄ḡe u Āj̄ ḡv̄ ḡv̄p 2 t̄ v̄ m. r̄ a t̄c̄v̄r̄p̄w̄n i c| f̄ c i i { l̄v̄go 2 p{2 v. j̄ c̄w̄c p 3̄ 4 v̄ 2 x̄ḡu l̄f̄ t̄ c f̄ j̄ c̄v̄c̄r̄p. a r̄f q| c v̄ q̄ u i { l̄v o w̄p̄n̄c ḡt̄ḡf o 2 p{2 v̄0 Mrgdgnudgti gl 2 t̄v c| c f̄ qo a p{q̄ a ū t̄v. co gn̄ ḡv c i t̄ » h 3̄ 4 x̄ḡi { 2 p̄ḡm v̄x̄ a d̄d̄k̄ d̄k̄ v̄ q̄ n̄ c f̄ qo a p{c gi 2 u f̄ ḡw̄ n̄k c p̄go | ḡv j̄ a r̄ i a v̄ v̄ 4 x̄ 2 p{d̄g k̄m̄c̄w̄c0 *3; 47-30 v̄ḡ0 J̄ c̄v̄m̄ cu 2 t̄ v̄ m̄ i { c̄t̄r̄ q̄ f̄ a v̄ l̄ḡr̄p̄v̄ḡw c V̄q̄ f̄ q̄t̄ḡūe w̄ n̄ 4 p{ x̄ v̄ t̄ c f̄ qo a p{q̄ a ū c k̄u0 D̄ḡv̄ḡ | v̄g c| a r̄f q/ | c v̄ n̄ u| ū i ḡv c X̄k̄i { a } » i t̄ » h̄ q̄ n̄ p̄c m̄ x̄c̄ » d̄c p̄ h̄ ḡ l̄ ḡ f̄ ḡ m̄ k̄ j̄ c i { c v̄ n̄ c. co gn̄ c O c i { c t̄ V̄w̄ f̄ qo a p{q̄ u C̄n̄ e f̄ 2 o k̄ p̄ e m̄ l̄ w̄ q̄ w̄0

K̄v̄ go n̄ f̄ j̄ ḡv̄o o gi c| Q̄t̄ u| a i q̄ u M̄ 4 p{ x̄ h̄ q̄ t̄ i c̄m̄ k̄ 2 u D̄k̄ r̄ i q̄ i t̄ a h̄ e k̄ M̄ 4 r̄ q̄ p̄ v̄ r̄ v̄ u f̄ i 2 ū v̄0 G| c| k̄p̄ v̄ | o 2 p{ o k̄p̄ v̄ gi { n̄ k̄ i 2 u f̄ ḡ w̄ ḡ c I { l̄v̄g/ o 2 p{gi {ḡv̄go ḡv0 M̄ r̄ ḡ v̄ n̄ ḡ i 2 u ḡ r̄ x̄ d̄ ḡp o 2 i c o Ā̄v̄ u| a | c f̄ p{q̄ r̄ e x̄ c p̄ c u 2 x̄ ḡ k̄ ḡ p{ Ā̄ k̄ m̄ x̄ k̄ u| c. co kn̄q̄t c| Ā0 p0 d̄ t̄ Ā̄ u| ḡ r̄ k̄ gi {g| o 2 p{ḡm c e u c v̄ c / n̄ q̄ } » a m̄o q̄m n̄ 4 3̄ 4 v̄ n̄ 4 p{ x̄ e u ḡ t̄ 2 v̄ u| ḡ t̄ x̄ ḡ | v̄ ḡ m̄ u c o gi h̄ e r̄ ḡ n̄ e u ḡ t̄ ḡ i k̄ x̄ c / v̄ c̄ q̄ m̄ h̄ e r̄ i n̄ f̄ i v̄ ū v̄ d̄ k̄ v̄ q̄ f̄ q̄ w̄ n̄0 C P go | ḡ v̄ ḡ m̄ U 3̄ 4 ḡ ū 2 i 2 d̄ ḡp o n̄ 4 E q̄ r̄ 2 t̄ c̄ v̄ k̄ p̄ k̄ v̄ ḡ n̄ ḡ e w̄ ḡ n̄ ḡ c| ḡ r̄ i q̄ p̄ f̄ q̄ i u v̄ v̄ x̄ a d̄ d̄ h̄ l̄ ḡ u| v̄ ḡ w̄. co ḡ p̄ p{ k̄ d̄ 2 p c| 3̄ 4 u| ḡ u v̄ c i a m̄o q̄ n̄ e v̄ e u c v̄ c̄ n̄ q̄ | a ū t̄ c u| » f̄ i f̄ q̄ w̄ c h̄ e r̄0 O c i { c t / q̄ t̄ u| a i 3; 450 l̄ c p̄ w̄ t̄ r̄0 k̄ j̄ c v̄ 3 m̄ { c n̄ v̄ 2 p{r̄ ḡ i e u c v̄ c̄ n̄ q̄ | q̄ w̄ k̄ u. co k̄ p̄ ḡ m̄ n̄ 4 ḡ v̄ n̄ ḡ | o 2 p{ḡ n̄ 4 p̄ v̄ u q̄ t̄ n̄ ḡ t̄ Ā̄ v̄ c| go n̄ f̄ j̄ ḡ v̄ n̄ 4 r̄ q̄ p̄ v̄ o gi u| ḡ t̄ x̄ ḡ i 2 ū t̄ ḡ. V̄ w̄ l̄ f̄ q̄ n̄ 4 r̄ r̄ ḡ p̄ Ā̄ j̄ k̄ x̄ c̄ v̄ i t̄ » n̄ x̄ q̄ n̄ u| » . co gn̄ c O c i { c t̄ P go | ḡ y k̄ O Ā̄ ḡ w̄o U 2 e j̄ ḡ p{ k̄ n̄ 4 p{ x̄ v̄ t̄ a x̄ e n̄ n̄ e r̄ e u q̄ n̄ e d̄ e p̄ c I { l̄v̄go 2 p{gi {g/ v̄go n̄ ḡ t̄ ḡ v̄ d̄ ḡp n̄ ḡ l̄ f̄ v̄ ḡ o gi o n̄ 4 2 ū 2 v̄0 J̄ c v̄ 3 u n̄ 4 2 d̄ ḡ l̄ w̄ q̄ w c m̄ Ā̄ n̄ 4 f̄ k̄ n̄ e r̄ e u q̄ n̄ e v̄ q̄ m̄ d̄ k̄ r̄ i q̄ i t̄ a h̄ e k̄ t̄ 2 u| 2 p̄ ḡ m̄ c h̄ q̄ n̄ » k̄ t̄ c v̄ e u ḡ t̄ 2 p̄ ḡ m̄ u d̄0 r̄ ḡ d̄ q̄ p{ q̄ n̄ f̄ / v̄ ū p̄ n̄ f̄ Ā̄ n̄ o 2 i u q̄ m̄ o a u l̄ ḡ r̄ e p̄ v̄ u h̄ e r̄ f̄ c̄ v̄ c h̄ q̄ n̄ » k̄ t̄ c v̄ k̄ p̄ m̄ k̄ f̄ gi ḡ p p{ḡ r̄ k̄ n̄ k̄ q̄ v̄ c̄ k̄ t̄ » n̄ x̄c̄ » i q̄ p̄ f̄ q̄ u n̄ f̄ a u. n̄ 4 r̄ q̄ p̄ v̄ k̄ e f̄ b̄ l̄ ḡ i { l̄ 2 n̄ ḡ m̄ h̄ q̄ n̄ » / k̄ t̄ c v̄ n̄ e v̄ c̄ » i w̄ q̄ m̄ u| ḡ t̄ n̄ ḡ u| v̄ 2 u ḡ u d̄0 V̄ ḡ x̄ 2 n̄ ḡ p{ t̄ 2 i ḡ u Ā̄ n̄ a p̄ c m̄ p̄ 3̄ 4 ḡ n̄ ḡ f̄ 2 ū v̄ o w̄ c v̄ a m̄ c o n̄ 4 2 ū 2 t̄ ḡ x̄ q̄ v̄ c̄ n̄ q̄ } » k̄ i ḡ p̄ n̄ ḡ f̄ x̄ ḡ l̄ u c v̄ u| v̄ n̄ e k̄ c f̄ c v̄ q̄ n̄0

M̄ r̄ ḡ d̄ ḡ n̄ u d̄ ḡ t̄ i o a u q̄ f̄ k̄ m̄ h̄ q̄ p̄ v̄ q̄ u c d d̄ r̄ r̄ 2 u ḡ c w̄ f̄ qo a p{ o ḡ p̄ v̄ u v̄ ḡ t̄ 2 p c O c i { c t̄ V̄ w̄ f̄ qo a p{q̄ u C̄ n̄ e f̄ 2 o k̄ c o gi u ḡ i f̄ 2 u ḡ x̄ q̄ n̄0 K̄ i o ḡ t̄ ḡ v̄ ḡ u. j̄ q̄ i { c| C̄ n̄ e f̄ 2 o k̄ c u| a o q̄ w̄ ḡ x̄ x̄ c i { q̄ p̄ c c j̄ a d̄ q̄ t̄ Ā̄ v̄ n̄ 4 ḡ v̄ k̄ p̄ h̄ i f̄ e k̄ » c̄ r̄ w u| k̄ p̄ v̄ ḡ r̄ i d̄ ḡ u p̄ o gi u ḡ o k̄ u Ā̄ n̄0 C t̄ ḡ h̄ t̄ o n̄ q̄ t̄ v̄ t̄ u c f̄ c m̄ k̄ a r̄ f̄ q| c v̄ n̄ u| ū i 2 p̄ ḡ m̄ ḡ n̄ u q̄ t̄ d̄ e p̄ U 2 e j̄ ḡ p{ k̄ K̄ u x̄ a p̄ i t̄ » h̄ p̄ c m̄ ḡ l̄ c p̄ c i { c t̄ a p{ Ā̄ r̄ » v̄ q̄ j̄ c̄ v̄ c̄ r̄ p̄ w̄ f̄ qo a p{q̄ u o w̄ p̄ n̄ i v̄ n̄ h̄ l̄ v̄ c̄ m̄ q̄ v̄ u c̄ c p{ c i k̄ r̄ i u| k̄ p̄ v̄

eu fdg ngt² C | gni² p{gf² u o gpg² v o wcl^a m c n³ gwng |
 ul^a o cfvqnc c | Cnef² o k² v² nr cr flck 3; 350 fge0 530² p 60 56.; ::
 ctc{p{nqtqp^a v² tvgm 3; 470 ul gr 0 470² p r g f k i 87.222 ctc{p{nqtqp^a v²
 c l³ k f g n o g 3; 35/dcp 4: 7.52; ctc{p{nqtqpc xqnx 3; 46/dgp r g f k i
 42.848 ctc{p{nqtqpc0 C h rgi^a mco k l^a tcf² nqndcp² u |^a rgi r x g r g n d g p
 g n g n g l g w x c i { q p 3/4 u l g l u w i q t q f q w 0 C | C n e f² o k² o^a t c r g i u l g t² /
 p { g d d n g t g v g m n³ 4 3/4 w l u c r k i w f v c o w p n i u r i^a v h q n { v p k < n k f x^a /
 p { c k p c m p c i { t² u l g u l A p g v g n 0 K c | c x q n M r g d g n d g t i p g n c c n e f² /
 o k^a p m c p { c i k v g n k p v g d g p A i { u } r k^a p o g i c r r r³ u t c x^a t 0 J c p i /
 u A n { q | c . j q i { g d d n^a m c o p c m² u v² t u c f c i q o p c m g i { c t^a p v n k n g m
 x g p p l g c o c i c t² u l² u 0 0

C r i k j q i { g r t q i r c n c o k p l u l v g t k u l² n² v o^a t k u n g l u n³ 4 3/4 w g i { r g i /
 o c i c u d d n a t o^a p { } > k n² | k c v q v 3; 440 l A p k w u 4: 0^a t > n n g m g l x g . c o g n l
 r g i g v x² v g w . j q i { c o k p l u l v g t c u A n { q u x^a n r i d c l w q w C n e f² o k² /
 p c m c r g i u A t i u g d d u l A n² i r g v g m h g f g l² u² t g^a m c o u g i² n² n² p v g i { u l g t /
 u o k p f g p n q t t c j c v o k r k > n q t q p^a v d q e u^a u q p t g p f g m g l² u² t g c l 3; 44 1450
 n g l g r u v g t j² t g 0 G r k l r g i h q p v q u o q l | c p e v . j q i { c l c f q o^a p p { c n p g o
 l^a t v g i { A w c l g n u l^a o q r i u n³ 4 g r g l g w u² i g # G l c l 3/4 u l g i c l k p h i e k >
 r q m i d e p j c o c t q u c p g n i k c f 0 W i { c p g l g p² x p q x 0 380^a p o q u v o^a t
 v² 4 x² p { l e x c u r v q v p { A v d g c O c i { c t V w f q o^a p { q u C n e f² o k² ^a m c o k
 v² o q i c v² u^a t > r 0 C p p g r² n² g u j c p i q p n g l f k < e C p g o | g v l³ k l² d g x g w g
 v² p q t f³ j c w c p j k² t n² u² r e v g t g l² t n c l | c n l u v c p A n^a i q v v u l . j q i { c
 o c i { c t w f q o^a p { q u o w p n c h q n { v p q u u^a i^a v o q u v j c j g n l g v² d g p l u
 d k v q u l c 0 G m m t² x k p { q r e o k r k > n q t q p c u g i² n² v l e x c u q n o k u o² v
 g n u l^a o q r i u n³ 4 g r g l g w u² i g p² m A n 0 G l g p n i k A n c l C n e f² o k² ^a m c p f >
 c m e m c l q w e k v^a w g u l k c I { l v g o² p { g i { g v g o r f u l^a o^a d c . x c i { l u
 g l g n g v c l^a m c o h k g w 0 X k u l q p v j c p i u A n { q | c . j q i { c l 3/4 u l g u u l g o² n² k
 n² t f² u g n d g p p p p g m g n p² t g c l C n e f² o k² t g p f g m g l k n 0

L g n g o | . j q i { M r g d g n d g t i p c i { 3/4 3/0² t g c l² x k u g i² n² 3/4 u l g i g v
 o^a t c d k q w u^a i k v² t i { c n i u q p 34 0 2 2 . 2 2 2 n q t q p^a t c g o g n² m h g n 0 M A n³ 4
 p³ 4 g p j c v q w c o k p l u l v t p g m c l c l² t x g . j q i { c l C n e f² o k² v u l v² p
 p g o | g k c n r r³ u x q n x q n o k p f g p^a m c o k² u h g l g f g n k v² o q i c v² u > r 0

C p g o | g v i { r f u k v² t i { c n i u g l c m e n q o c n k u g r i o² n² u^a i /
 v g l g u p h q n v r g . d^a t g l g u g v d g p o^a t c n e f v e m | c x c t > o q l | c p c v q n 0
 C u l q e k^a r f g o q n c v² m u | > p a n c r i 0 g r k d g p g r t q i c f v w i { c p c l e x c u r v q v .
 f g c l v n³ k^a p v c . j q i { c l C n e f² o k² e c o c i c w f q o^a p { q u o w p n i m q f^a /
 u^a x c n l³ 4 l³ 4 p n³ 4 g r g d d c o k d q p { q n w v p e r l e k p n j q l . j q i { p g v t v u c
 o c i^a v q n l v² x q n c h e m g i g n d g p² u p g v u l v² p c l g z e m v w f q o^a p { q m
 n k^a t > m i q u u l q n i^a n v² p c m² r l g p 0 0 l³ 4 l³ 4 p c l C n e f² o k² n³ 4 g r g d d c
 o k x² t g u r t q d i r o^a k p n j q l 0 O k p f g p g u g v g w f q o^a p { q u r t q i t c o p c m

nku² j cᵛ t q | c w c p # D g r n g x g t ᵛ m c ᵛ t i { c f u d c c p w o g t w u e r c w u w u
 n ᵛ t f ² u ² v k u 0 M ᵛ 4 d g p M r g d g n u d g t i k u n e r q w c | g m g p | ² m t ² u | ² t n g i { /
 n ᵛ x ᵛ i ᵛ a u 0 O ² n » u ᵛ i i c n x ᵛ n u | q n 0 V w f q o ᵛ p { r q r k k n e k n l g r g p ᵛ u g k
 p g o h ᵛ | k u q m j c p g o u ᵛ ᵛ o ᵛ a ᵛ t c c m w n ᵛ ᵛ t c Ḃ { g x ² t g u g p n q o q n (0 ē J c
 o g i h e u ᵛ ᵛ g w o w p n c w ᵛ p u q n u | q t k i g p n ᵛ u p g u v g m g i { g m c m w n w u | /
 o k p u | ᵛ t k w o d » n o k p f k i c | c | ² t | ² u g o . j q i { c n ᵛ v G ³ ⁴ x ³ ⁴ u V t g h t v
 R e w g t u | g o ² d g p . c n k n p g m c n ᵛ r g k q w x e p p c m c t ² u | x ² v n ᵛ p p { g Ḃ n
 c o k n q t n ᵛ v p c m g p i g o . c p g o | g v k n e v u | ᵛ » h ᵛ m u | g i ² p { m w n w u | o k p u | /
 v g t ² v m Ḃ f g p k q n { c p p g i ² | u ᵛ i g m g n c o k p n g v c | ² p p c i { g n f g k o p g o
 k u u g l v g w n 0 O c i ᵛ v c l e x c u r c v q v g n v g t l g u | v d g u | ² f g v l » t ² u | v d g ᵛ n k
 c U | ² e j g p { k t g x c n » g o n ᵛ n g | ² u 0 C | v n ᵛ x ᵛ p l c . x c l j c l q i q u w r c v p o g i /
 c f | c ᵛ ᵛ u c l p m n ᵛ 4 d g p k u h e r g o g m g f p ² p m c | q n t c c o c i c u ᵛ ᵛ q n t c .
 c j q x ᵛ c n g i p c i { q d d o c i { c t n g m g g r i w q w = x c l j c ᵛ j c v ᵛ ᵛ c p ᵛ c p g o | g v
 i | n ᵛ u v c | 3 : 4 7 . / k f k ² c u | g m g o g #

C | 3 ; 4 5 < n 0 v e 0 g i { k m n g i n ᵛ p { g i g u g d d t ² u | g v q x ᵛ d d t c k u d k v q u ᵛ /
 v q w c | C n e f ² o k e v n l g u h Ḃ i g v g p u ² i ² v u v c r q r k k n e k j e v c m k v Ḃ /
 n e r ᵛ u q m o g i g n | ² u g e ² n ᵛ d » n x k c g u g ᵛ p c n g i h e n u d d n ᵛ 4 k i c | i c ᵛ ᵛ k
 d ᵛ » u ᵛ i q v l g n ᵛ n g n k c f ³ p ᵛ u t g k n g ᵛ n g u p g n 0 O ² i c | v k u n g i g v x ² v g w .
 j q i { c | C n e f ² o k c | g u g v g i n k p g o u | q i ᵛ n e v q w u g i ² n ᵛ d ᵛ » k r i
 d g j c l v c u u c # M r g d g n u d g t i p c i { q p n q o q n { c p x g w c w f q o ᵛ p { h Ḃ /
 i g v g p u ² i ² v m Ḃ ᵛ p ³ ⁴ u p c | | c n c v u v Ḃ g w g n u | g o d e p . c o g n (. o ᵛ i v j g w g .
 ² r r g p v n l g u h Ḃ i g v g p u ² i ² p g m o g i t | ² u g ² t f g n ᵛ d g p o k p f g p ᵛ n e o k
 ᵛ o q i c ᵛ ᵛ u g n u | g t g p g i ᵛ t ᵛ q w o c i ᵛ » n 0

J ᵛ t q o ² x o Ḃ k c * 3 ; 4 7 + Ḃ c d d ᵛ 4 x ² p { l e x c u r c v q v p { Ḃ v d g .
 c o g n { d g p ᵛ 4 x ² p { d g k m e v c c u ᵛ ᵛ | ² x g u C n e f ² o k e ² t f g o g k v ² u c |
 ᵛ n e o u g i ² n ᵛ c | 3 ; 4 8 1 9 0 n ᵛ 4 n u ² i x g ᵛ u k ² x v n n g | f f g p ² x k 5 . 2 2 2 0 2 2 . 2 2 2
 n q t q ᵛ ᵛ d e p ᵛ n e r ᵛ v e v c o g i 0 C r e t n e o g p v c l e x c u r c v q v c o g n (o k p v
 3 ; 4 7 < Z N X r 0 v g 0 n g t Ḃ v d r g c e q t r w u k t k u / d c . o k p f g p p c i { q d d
 x k c p ² m Ḃ n g r h q i c f v 0

K n ᵛ 4 d g p c X l i { ᵛ | » i t » h q m j e v c m c u c f q o ᵛ p { c t g o ² p { v n g n /
 v g w c v n k p v g d e p . j q i { c | C n e f ² o k e g u g v g i ᵛ n e o k ᵛ o q i c ᵛ ᵛ u p ² m Ḃ n
 k u h q n { v e p k w f l c c t ² i k n g t g v g m n ᵛ 4 ³ ⁴ w o w p n ᵛ u ᵛ i ᵛ a 0 C | g i { k m p e r k e r
 o ᵛ t w f p k x ² n g . j q i { M r g d g n u d g t i c | Ḃ j g n | g v d g p h ᵛ 4 ᵛ u r g i g u p g m
 v e v c c | ² x k ᵛ n e o u g i ² n ᵛ h q n { » u ᵛ ᵛ ᵛ i ᵛ a 0 I q p f q m q ᵛ ᵛ u o » f l ᵛ d c o ² n ᵛ g p
 d g x k f i ᵛ v c | c e ᵛ h q r e v c o g n { g v u k v x g n ᵛ 4 | ² v g w 0 J c c | C n e f ² o k e c
 X l i { ᵛ | » j c i { c ᵛ n d » n ᵛ p { n g i c t ² i k n g t g v d g p w f p ᵛ h q n { v e p k o w p n ᵛ u /
 u ᵛ i ᵛ a v . c m n q t c t t c n ᵛ t k x g l g v u ² i ² v . j q i { c | ᵛ n e o k u | w d x g p e l » d » n u q t l ᵛ /
 d e p ᵛ n ᵛ i u c j g n { t g c t ² i k c r e r ᵛ » m c f q o ᵛ p { c k v ² u c r e r ᵛ x ᵛ p { c k 0 ē C |
 C n e f ² o k e o g i u g o o k u Ḃ v x c i { q p ᵛ p e m g h e n ᵛ o c f ᵛ u c u | k o d » n w o c n g u |
 c o ᵛ u k m c p c i { h e n ᵛ o c f ᵛ u p c n 0

C| gf fki o gi xkfi i qw wfqo^ap{rqrkknck v4gf²ngm h rgi c
 ul gnqo wfqo^ap{qnrv r^atvqn» Mrgdnudgti gv^anfiqwm gn v²tdg0 Vgt/
 o²ul gvqupgm vctvj cvlwm jqi { c V³4v²pgro k V^atuwcv g³4n²pgm
 hki {grn g c| gnu kf dgp h rgi ctte c t²ul tg k^ap{wv co gn{pgm jgn/
 |gv²v vrcu|vrvd»n ku c rgi lqddcp kuo gtvg0 Fg²rrgp c| o wcvlc
 tgpfnf²Åk twi cm cu^ai^av^a v^ahqi » ul go if r²v v jqi { dgn rē. c lqi^aul/
 v³4v²p²uld n rēw c o ci {ct v²to²ul gwwf qo^ap{k mwc^vu gi {km rgi/
 pci {qdd r^atvhqi »lc²u hgrk^ai q| v»lc0

Gi {km o w^{pnv}tuc. U g^{pi}{³ai {k Cridtv. t^ao wcv Mrgdnudgti
 h²qi²n²up{u^ai^apcm vkn²tc< euq^arvqu k^{pw}f^{ek}xcn gtgl v^g o gi c| g
 n³4dg vctvl » n²tf²ugm h²pvqu^ai^av²u n²p{gi²v0 ěGi {km rgi pci {qdd
 o gi rgr g^vug²u dgp{qo^auc xqiv²rēvgo pgn if vj cvpk jqi { Mrgdnudgti
 Mwp» c v³4v²p²ul²u lqi^aul. ul kv^g i qpf qm^af^au p²m^an d^kvqu k^{pw}ek/
 xcn jqi {cp if wc^av o k^{pv} rgi v²to²ul gvugdd fqni qv o k^{pf}c|v co ktg
²p²x²gf gu rcdqtc»tkwo k o w^{pn}i²xcn²u v²rgn f²uugn lwqwc0 C
 o²n²u²i gu³4ul gh²i²ugm o gi²t²v²u²pgm n²r gu²i g ul kv^g n²i²tv²vgu.
 go dgt h²gvk dgp{qo^auv v^gw t^ao 000i J q|^ah|k jqi { o k^{pf}gl gi {/
 ul gt gp. v²to²ul gvugp o gp⁰ O gi²tg| v^g. wf²v c|v ku. o gn{km t²ul gi {/
 gi { wf qo^ap{ul cndcp c o Ån². o gn{kndgp rrrrcpi c l³k 0 ěPgo
 o q^{pf}v pgnk ugnk pgo ku q^{rk}cuc0 Xcn»ul²p rgi pgo ku i q^{pf}qm^af^aq
 tclvc0 wf²v u pgnk i c| c xqn00

O lgn w o w^{pn}i j q| h²qi qw xqpc. o gi ul gt²gl v^g c v²to²ul gv/
 wf qo^ap{k n²upi t²guul wuv. co gn{pgm v²ti {cⁿuck jcvcm cu n³4gvdp
 if wcm pcr xk^ai qv0 Gppgm³4ul gj²k^au^av o²i 3;470 h²gd⁰ 470²p rgi h²nu dd
 n²|kcv²xcn c M²to^ap{| » —t n²gl fgo²p{gl v²o C| 3;480 lcpw²t 500 :0c
 n³4³4v r²hqn{cvqw vcp^aeun²u^aqnev ul kv²p c M²to^ap{| » —t p{kqwc
 o gi 0 C o gi p{k» ul cxcm o^at gr²twi^am c v²to²ul gwwf qo^ap{qm hgl/
 r²gu²v²pgm pgo|gvk e²n^av< c wf qo^ap{o xgr²u o gn²w ul » xcp c
 i c| fcu^aik v²rgu²fo²p{gm h²nu²u^at»n²u c m^an²af fgn xcn» xgtugp{/
 n²r gu²it n ku0 C| kf rqp^v ô uclpqu ô w»nci qucp ul gt²gpeu²v²gn
 o gi x^aru²vqpcm d^kqp{wⁿ0 M²4 dgl³4v wi {cpku c rqrkknckci c²pp{ktc
 n²kl cu^aiv h²cpnj co k²u²uk Åi {. co gn{ uqmmen lqddcp²tfgn²ng n³4/
 x²r²go²p{Åp²ngv c v²to²ul gwwf qo^ap{k n²upi t²guul wu v²ti {cⁿuck^ao
 Rgf ki Mrgdnudgti gi {km e²rlc c pci {ct^ap{Å t²gp²gl²uugn²rrgp c|
 xqiv jqi { c v²tucf c²qo²tf gm f²u²v h²gm²ng c²ppcm hki {grn²v
 t^ak^ap{fuc c v²to²ul gwwf qo^ap{qm o xgr²u²pgm pgo|gvk ul go rqp^v
 d»n xcn» h²pvqu^ai^atc0 U lgt²wg xqpc. jc c^amco o gn²w^arf q| cv
 n²u²i²xgn c v²tucf c²qo²tf gm pci {qdd o²t²v²ndgp o gi o q| f w0 G
 n²u dd dg ku n³4gvng gw0 C n²upi t²guul wu kf rqp^vdcp c| q²pdcp c pcrk

rqrkknck 2rgv cpp{k.c. o ci^atc xqpc c hki {grn gv. jqi { c| cmq» o wpnc
v^o tucf cm kgn n^o u| ^ou^o t^og o^at ciki lwwqwdgn rg0

Cpp^an lqddcp ukgt^o c o^aukm c wfw^o p{u| gtxgl²uk e²n o gi xcn/
u^o uc0 C nupi tguu| wu cncr qu o wpm^o rvek vku^o v^o m jqn ngm c fqni qv
o gi hqi pk o kn{gp kp^o |ngf²ugntg rpppg u| ^oAm^oi c o ci cucdd vgt^o 2u| gv
wfw^o p{k qmcv^o 2u mwc^o u vgtxu| gt r tqi tco o l^a pcm nkxkgrg
2tfgn^o dgp0 Mrgdgnudgti n^o pi qn» u| cxcmen hglvk nk o gi i { | f²u^o v< c
nqt wfw^o p{rqrkkn^o lc nkhlgl gwgp vgt^o 2u| gwfw^o p{k k^a p{v xgw.
o gi ngm 2tvgp^o m c| kf m lgr^o v. vgrgu gt xgn hgn ngm netqpwpm c
vgt^o 2u| gwfw^o p{qm v^o o qi cv^o u^o Tgwpgvgu rpppg c| 2u c pgo |gv
hrgn u^o i g. jc j^o Au^o 2x o ^oArk g v^o tgp o^au pgo |gvmgm u| go dgp
grn ctfqwp ^amp^o p^o n0 eG| v c hrgn u^o i gv pgo n^o j gvg grkugrpkh
Hki {grgo tgo 2n». jqi { h rgi c| grn 2rgk mwc^o uqm hqvqu^o i^atc
j^o klc hgn c| 2tfgm f²u^o C i {cnu^o rvc kgrf^o 2p{gm n^o | | grh^o j c» cmk
gl gngv pgo ngm c n^o 4 x² rgo 2p{ hki {grn 2dg cl^a pncp0 Xku| qpv pkpeu
qn{cp i {cnu^o rvc. co gn{ o gi hrgn grn 2rgk cncr p² m^o n^o vx^a ddhgn f/
jgp² n0 Grn 2rgv 2u i {cnu^o rvc n^o 4 3/4 v pkpeu gngp^o v. kpn^o dd c n^o i /
u| qtqucdd 3/4 u| gh^o i^o ut n ngm dgu| 2p^o p^o n0 Wcn c p² o gv r² f^a tc< c|
qvcpk mwc^o kp^o |gvgn n^o 4 An c n^o i v^o dd gi {gpgugp c| |cn c e² mcn
r^o vgu^o n. jqi { c p² o gv krct xgtugp{ n^o r gu^o i² v hqn| |c0 C v^o ddk pgo /
|gvgn c hcpel^o m 2u cpi qnm 2rrgp c p² o gv r² f^a p ngtgu| v^o n kuo gt^o m
hgn c rcdqctwtkwo qndcp hqn{» o wpnc uqtuf 3/4 v hqvqu^o i^a v0 P gm^o p^o m
ugo u| cdcf grn ctfpwn#

C nupi tguu| wu gtgf^o 2p{k n^o 4 An n^o v hqvqu u| gtxgl ggv ngm nk/
go gp^o p^o n c| gi {km c| Qtu^o i qu Vgt^o 2u| gwfw^o p{k Vcp^o eu. c
o^a ukmc i t>hU 2ej gp{kV^a tuc^o i 2rgv gj ^o k^a uc0

C| Qtu^o i qu Vgt^o 2u| gwfw^o p{k Vcp^o eu e² n^a vn v |vg nk c|
grn 2rgk 2u cmem c| qw vgt^o 2u| gwfw^o p{qm tgp^o u| gtu. vgtxu| gt
hglgu| v^o u^o Hgrcf cvn^o 4g xqnv c dgn^o 2u m^o n^o 4 f k wfw^o p{qu o q| i c/
o cm hki {grgo dgx² vgr^o xgn c| qtu^o i gi {gvgo gu 2tf gngkpgm o gi hrgn
r tqi tco o nk^o qni q|^a uc. gppgm ^ancpf» nki 2u ^o u^o g. c r tqi tco o
x² i tgj cl^o v^o dk vqu^o cpk j kxcvqw mwc^o o wpnc gngp t| 2ug0 Lqi c
2u n^o 4 grgu^o i g xqnv o kpf gp qn{cp kp^o |ngf²uv ngl fgo 2p{gl pk
co gn{ c o ci {ct vgt^o 2u| gwfw^o p{k mwc^o v^o pcm o gi hrgn u| ^o p/
xqpcmp vct^o v^o e² n| j cwc0 J cv^o un^o 4² dg vctv| qw. jqi { c|
gi {gu vgt^o 2u| gwfw^o p{k u| cnu^o m kp^o |gvkpgm 2u mwc^o kpcm 3/4 u| g/
o n^o 4² u^o v dk vqu^o uc0 C| kf gx^o i» mwc^o u pgo |gvn^o 4 k u| gtxgl gvkdgp
O ci {ctqtu^o i qv o ci^a v^o n 2tvgv f n^o i u| kp^o p c vcp^o eu n^o r xkugng0 Ngi /
hqvqucdd jcv^o un^o 4g o 2i ku c| xqnv jqi { c| Qtu^o i qu Vgt^o 2u| gv
wfw^o p{k Cncr hrgj cul p^a n^o u^o vlp^o |vg. o ci^a vc| cncr qvng| gng0

Gdd n ulgtgl v²m dg rir0 c pci {qdd 2u ft^ai^add o ulgtgnv gdd n ner/ cm c| 2tfngnrv mwcw^m o gi hgrgn v^o qi cv^u0 C vcp^aeu hgr^an^u v^u t^u n c o kplu| vgt gi {2dn^up^v4x²pp{gnkpv²|ngfgw0 G| c| 3; 52<Xir0 vg0

C vcp^aeu p{qrexcp vci^lv c v⁴x²p{ Ai { x^a rji cwcvc 3/4u| g. jqi { c| gi {gu ulcmqm 2u kp^v| o²p{gm ct^ap{qu n^rr xkugvj g| lwuucpn0 C vci qm n⁴3/4v jgn{gv hqi rcpem wfqo^ap{r qikm^uqm 2u c vcp^aeu e²rlckp^m gn o q| f^u v^u tc cm^u cu gi {gu^uvgm nk^u v⁴gk ku0 C vcp^aeu o guu| go gp cwqp^u o k^v 2^u xgl < j cv^u tq| cvckcn ul go dgp c o kplu| vgt/ pgm eucm x²u/ lqi c xcp0 Mrgdgnudgti c| v tgo²rk jqi { c wf^u uqm pci {qdd o²tx dgxqp^auc c wfqo^ap{qu ki²p{gm nk^u v^u pgm xci { c lgrgvng| ki²p{gm uqttgpflg o gi^a ncr^u v^u pcm o wpi^lv pci { o²t/ v^u ndgp v⁴u^ungv^ugp^k hqi lc0 Gix²itg c| cf o kplu| v^u v^u k^a mco k v²p{gl m c| kn^u guo kv o²i ugo wfl^a m c o gi hgrgn hgn^u v^u i gn nk^a t^u rci qcp k^a p{v^ucp^l0 Xlu qp^v gr^a tv. jqi { wf^u uckpm pgeucm mwcw^m 2u vcp^a/ tqm jcpgo dk qp{qu o²t^v nkⁱ ulgtxg| m ku rgi {gpgm 2u o ci w^u ku jcv^u/ uqucp n⁴ tgo n⁴ lpgm c wfqo^ap{qu o w^u v^u vx^a ddk hgn^u v^u gk^u pgm o gi vgtgo v² u^u dgp0 H rgi c wfqo^ap{qu ki²p{gm hgmwcv^u dcp 2u c hglgu| v^u tg k^a p{w^u ng| fgo²p{gl²udgp ul^a o v^u qw v^u o qi cv^u uwntc0 V⁴ ddu| 3/4 j cpi u^u q| v c| qpdc. jqi { pgo eucm cf j qe lcxcurv^unev x^a t. jcpgo o^u gu uqtdcp o^u j quu| cdd k^u tg ul^u n^u o w^u n^u r tqi tco / o qnev0

C| Qtu^a i qu Vgto² ul gwwf^u qo^a p{k Cnr ng| f xci {qpc c| c| 3022.222 ctep| nqtqpc xq^u co gn{gv Uo kj lgtgo k^u p² r u| 3/4gu² i k h dk vqu j q| |^a l^a tw^u v^u xcn Mrgdgnudgti c| 3; 47< ZZKk0 v^u dgp p{gtv hgr^u cv^u c|^a u cnr^l p c j cu| pqu dgtv^u |^a uqntc gpi gf² n| gl gw 3/4u| gi / d n c e² ntc ner qw0 Gdd n ki {gnl gw c rgi² i gv dd ul^a v^u i rgyngv dki v^u gp^k r^u dqtcv^u tkwo qnev tgpfdgi q| cvpk cp{ci qv wfqo^ap{qu hgn^u lgtgr^u uv dgu| gtgl pl0 Vgto² ul gv^u gp c v⁴x²p{ o gi hgrgn o^u f qp i qp^u qun^u f qw c| cnr vx^a ddk v^u r^u i^u t^u r0 Fg ul^a o v^u qw c|^a mco o gmgw c v⁴x²p{ jcv^u i qm n⁴ u² i gm gi {gu^uvgm kp^v| gv^u m 2u gi {2d cf qo^ap{q| m^a r f q| cv^u u² i² tg ku0 Mrgdgnudgti pgo euk^a v^u dgn rg v^u nqv. jqi { c| Qtu^a i qu Vgto² ul gwwf^u qo^a p{k Vcp^a eupcm e^u c o k nkugdd ct^a p{A xku| qp{ckpntc rgi {ulgt ul^u xgi pci {l^a dcp c| v c ulgtg/ rgv ul^a pvc. co kv P² o gvqtul^a i dcp c Pqv^u go gk^u p^u ej chv fgt fgw^u ej gp Y ku^u p^u ej chv^u vqwg^u

O gmgw o² i 3; 49/ dgp o gi cmqwc c U² ej gp{k K^u v^a p wfqo^a/ p{qu v^u tuc^u i qv c| | cn c e² n^u cwen jqi { c o gl i c fcu^u i. krct. ngtgu/ ngfgrgo 2u r² p| Ai {k xk^u i nk^a v^u i ckv ner euq^u vdc j q| | c c vgo² ul gv wf^u uq^u men 2u wfqo^a p{qu kp^v| gv^u mgn0 C| Al v^u tuc^u i hgr^u f cv^u 4² dg v^u tq| qw c mwcw^u kp^v| gv^u m 2u r^u dqtcv^u tkwo qm v^u o qi cv^u uc 2u hglgu| /

v̆ ug. gugv̆gi Āl k̆p̆v̆|gv̆gm cr̆r ʃ̆v̆ uc. c t²i k̆gm n̆k̆gi ²u|ʃ̆v̆ ug. ³u| v̆p/ f̆ʃ̆cm l̆w̆c̆v̆ uc. c n̆ʒ⁴ x² r̆go ²p{ ²tf̆ gm f²u² p̆gm ²dt̆gp̆ct̆v̆ uc ô o k̆p̆f̆ g| c| q̆p̆d̆c̆p v̆ t̆ŭc̆f̆ c̆m k Āx̆q̆p̆# C o k̆p̆c c p²o gv M̆cl̆uğt Y k̆j̆ gr̆o / I ğuğm̆ej̆ ch̆v x̆q̆n̆0 C r̆p̆{ği ğu o q| c̆p̆c̆v co gn̆{ gi { Ā̆v̆c̆n j̆c̆v̆ t̆x̆q̆p̆c̆n c| Q̆t̆ŭ¹ i qu V̆ğto ²u| ğw̆w̆f̆ qo ²p{k V̆c̆p̆¹ ĕĕuc̆n u| go d̆gp. ² r̆r̆ gp c v̆ t/ ŭc̆f̆ c̆m k l̆gm̆i x̆q̆n̆0 Co ʃ̆ c V̆c̆p̆¹ ĕu c| k̆f²| ğw v̆ʒ⁴ x² p{ d̆gp gn ʃ̆v o » f̆q̆p gr̆u ŭq̆t̆d̆c̆p n̆ʒ⁴ r² p| ğn̆gv. h r̆gi ¹ m̆co k j̆q| ¹ l¹ t̆w̆f̆ ŭv j̆c̆u| p¹ n̆v h̆gn c̆f̆ f̆k̆i c U² ĕj̆ gp{ k̆V¹ t̆uc̆r̆¹ u| u| c̆d̆c̆f. c n̆ʒ⁴ q̆m̆c̆v̆ ŭĀi {k o k̆p̆k̆u| v̆t/ v n ku h̆Āi i ğv̆gp̆ gi { ğŭĀi r̆¹ u. co gn̆{ m̆w̆c̆v̆ uk e² r̆q̆nt̆c r̆p{ ği ² d̆gp c i c| f̆c/ t̆¹ i k̆ci ² t̆f̆ ğn̆ğn̆v n i { lv j̆q| ¹ l¹ t̆w̆f̆ ŭ0 C w̆i q̆m n̆ʒ⁴ ³⁄⁴v x̆q̆nc̆m o ci ¹ p̆qŭqm ² u l̆q̆i k u| go ² n̆f̆ gn̆0 M̆Āi r̆p̆³⁄⁴ gp̆ ŭqm k̆c̆t̆k x¹ n̆c̆r̆v r̆r̆ğw dg x̆i p̆c̆n̆0 C ŭk̆n̆t̆v o w̆c̆l̆c gi { ğv̆gp c̆f̆c̆v< 3; 4; / d̆gp c v̆ t̆uc̆r̆¹ i o ¹ t 342.222 R/v w̆f̆ q̆w c v r̆g u| q̆r̆¹ n̆v e² r̆q̆nt̆c l̆w̆c̆p̆k̆0 M̆r̆gd̆n̆d̆gt̆i i q̆p/ f̆q̆nc nk gr̆k̆ cr̆r̆q̆p c o v̆p̆n̆o gi q̆u| v̆ ŭv ku< ěC n̆v u| ğt̆x m| ³⁄⁴v ô k̆l̆c ô Āi { q̆u| q̆w̆w̆m o gi c j̆c̆v̆ ŭn̆ʒ⁴ v. j̆q̆i { c U² ĕj̆ gp{ k̆V¹ t̆uc̆r̆¹ i k̆p̆n̆¹ d̆d c| q̆n̆ev c m̆w̆c̆v̆ ŭq̆n̆ev v̆ o q̆i c̆v̆c. co gn̆{ gm i { c̆n̆q̆t̆r̆ev̆k ğt̆f̆o ²/ p{ ğn̆j̆ g| x̆g| ğv̆p̆gm o k̆p̆v r̆r̆0 d̆c̆t̆p̆c̆u| ğp̆ğl̆p̆m v̆r̆i ğŭğd̆d n̆k̆j̆ c̆u| p¹ r̆¹ uc= c V̆ğto ²u| ğw̆w̆f̆ qo ² p{k V̆c̆p̆¹ ĕu ğm̆p̆d̆gp c| q̆n̆ev c o v̆p̆n̆¹ r̆v̆q̆n̆ev v̆ o q/ i c̆v̆c. co gn̆{ gm u| k̆p̆v̆ p x̆g| ğj̆ v̆p̆gm i { c̆n̆q̆t̆r̆ev̆k ğt̆f̆o ² p{ t̆g. c̆j̆ q̆n c| q̆p̆d̆c̆p p̆go c n̆ʒ⁴ x̆ğv̆gp̆ j̆c̆u| q̆p. j̆c̆p̆go c m̆w̆c̆v̆ u. o k̆p̆v q̆n̆{ c̆p. ¹ m gn v̆ t̆d̆gp̆0

M̆r̆gd̆n̆d̆gt̆i p̆gm c o ci { c̆t v̆ğto ²u| ğw̆w̆f̆ qo ² p{k m̆w̆c̆v̆ ŭc̆n ³⁄⁴u| g/ h̆Āi i v̆x¹ d̆d̆k v̆t̆x̆ğk ô o k̆p̆v r̆¹ v̆k h̆q̆i l̆w̆m ô c̆p̆p{ k̆t̆c i k̆i c̆p̆k̆n̆w̆c̆m j̆q̆i { o ² i c| c̆n̆t̆c̆v̆ğt̆ğl² p̆gm ku ĕuc̆m gi { t² u| Ā̆n̆v̆ ŭk̆n̆t̆Ā̆n̆v o gi x̆c̆n̆/ ŭʃ̆c̆p̆k̆c̆0 C| ² r̆ğv̆t̆g j̆q| q̆w c̆n̆q̆v̆ ŭqm n̆ʒ⁴ Ā̆n o ² i ğd̆d̆gp c| ³⁄⁴u| ğh̆Āi i ² ŭd̆gp n̆ğw v̆ ku o ğt̆v̆j̆ ğv̆Ā̆n̆k̆ c ŭx¹ d̆j̆ gi { k̆ ĕŭk̆r̆ci x̆k̆ ŭ¹ n̆v ² u c v̆j̆ c̆p{ k ² r̆ğv̆ĕp̆k k̆p̆v̆| ğv̆ğ0 C| gr̆u cr̆r̆l¹ d̆c̆p x² x̆g c o gi o ğp̆v̆ğw. l̆q̆d̆d̆c̆p o q̆p̆f̆ x̆c c| ¹ v̆o ğp̆v̆ğw k̆p̆v̆| o ² p{ ğm n̆ʒ⁴ ² v̆t̆v̆q| k̆m= c o ¹ ŭq̆f̆ k̆n̆ev c| q̆p̆d̆c̆p o ¹ t c| Ā̆c̆n̆p̆c̆m² t| ğw̆u| Ā̆m̆² i r̆ğv̆m̆j̆ q| v̆ m̆r̆¹ v̆t̆ğ0

C o ci { c̆t w̆f̆ qo ² p{ ŭq̆t̆u¹ p gr̆o ² m̆r̆f̆ x̆g M̆r̆gd̆n̆d̆gt̆i ğn̆d̆q̆t̆w̆n / v̆c̆p x̆ğu| k w̆f̆ qo ² ŭw̆n gi { / gi { k̆p̆v̆| o ² p{ Ā̆p̆m o gi u| p² u² v̆0 ěC m̆w̆Ā̆c̆ n̆ev̆c̆u| v̆» l̆f̆ l̆c p̆go Āi { n̆ʒ⁴ ğw̆m̆j̆ k̆m dg. o k̆p̆v o k̆f p c d̆q̆n̆j̆ c̆l̆v̆ u p̆ci { t̆q̆d̆c̆l̆l̆c̆n gi { u| ğt̆g d̆ğu| c̆n̆f̆= j̆c̆ŭq̆p̆n̆ c v̆ğto ²/ u| ğv u| k gr̆i c̆f̆ t̆¹ j̆q̆l. o k̆f p r̆ğx² n r̆ğx² n w̆p̆ r̆c̆ŭc̆p̆n̆k̆p̆v j̆w̆r̆k̆m r̆ğ0 C o ci { c̆t o x̆gn f² u l̆f̆ l¹ p̆c̆m g| c r̆ğx² ĭj̆ w̆f̆ uc ô ŭc̆l̆p̆q̆u ô h̆q/ r̆k̆n̆0 C d̆q̆t̆q̆p̆i ¹ ŭv c| x¹ n̆q̆w̆c nk j̆q̆i { c| ~ i { c̆n̆¹ p̆ o n̆ʒ⁴ ³⁄⁴v k r̆f̆ o ¹ i p̆ğŭr̆² i k ¹ m̆q̆o ¹ u c o gi u| ¹ n̆¹ u n̆ʒ⁴ ğw̆m̆j̆ v̆² d̆gp n̆r̆p{ v̆r̆gp̆ x̆q̆n̆v d̆ğu| Ā̆p̆v̆y̆p̆k o n̆ʒ⁴ ² u² v̆0 R̆ğf̆ k̆i g| x̆q̆n̆v f² m̆r̆ğv̆ h̆r̆r̆ c p̆go | ğn̆ʒ⁴ k u| ğt̆x̆g| ğv̆d̆gp c| w̆q̆n̆» k̆n̆{ ğp̆ k̆p̆v̆| o ² p{ # J̆c̆ŭq̆p̆n̆ ŭq̆t̆ŭt̆c l̆w̆q̆w x̆q̆r̆p̆c c j̆c| c̆k ĕŭk̆r̆ci x̆k̆ ŭ¹ n̆» ku. j̆c c| k̆i c̆i c̆v̆ u| go ² n̆f̆ gu n̆q̆ĕn̆¹ | c̆v ¹ t¹ p

c hgnlgtgruv^av pgo o gpvk0 C o ci {ct euknci^aul cv o Ànc gi {2dnf pv ugo xqrv |^{3/4}mgp²u/o gpvu0 3:74/dgp rñ0 c| qu|v^am ³pnf p{wcnqo rñdqpvcw c i gn²tj gi {k euknci xk²ui^an.v. jqi { jgn{gv vgtgo vgp c h x^atqu ncvpck h²ngpctv^atc 2r²Àn ekcf gm²pcn0 G| c| kp²|ngf²u j À²xk eg| À^av lmgpvw0 3;3:/dcp gn nmgw xgu vgp²pm c| kf n²/dgp o gi²r Àv »i{cnk euknci xk²ui^an.v0 Fg Mrgdgnudgti gv c jci {q/ o^ap{qu o ci {ct dcnqtu pgo glk n²v²i dg0 C Ux^adj gi {gp j q| |^ar²v c jcto cf km o ci {ct euknci fc 2r²u²j gl0 Pgo wfp^a grklugpk c i qpf q/ rñqv. jqi { glgp c v²tgp ku v²4/4²m c o ci {ctv c ul^ao qwex pgo |gv m uqt^ad>n0 C pgo |gn²4 k o wpn²dcp gffki fleu u²i i gn xgw²pm t²ul < gl vc o wpn²vhqn²cvpwmgn#

O^at 3;45 x²ig hgn² dglgnpvy gk jqi { c h x^atquwⁿ ^avpi gfgw ux^adj gi {k vmgp c| 2r²ngl²u hqn²kmu v gi {gu 2r²Àvgm o^at dghgl²uv p{gtvgn0 C 62.222 p²i || go²vgt p{k vrgm m²pdgp c dwfcngul k gtf Ug²v^ai^au gpxg²u t²ul²d n rgw nk²cu²xc. 6:8 o vpi gtu²kp h²4/4k o ci cu^ai dcp. qn{cp jgn{gp. jqi { c n²4 À²r²u xgu gfgm g pgo hgp{g/ rgvj gk0 3;45/dcp o^at gm²ul Àv c o gtfk²p/j^a |²u gi { mvr qrc0 C h / 2r²Àgv 3;48/tc rgw n²ul gp0 Wi {cpgdgp c| 2xdgp o gi ngl f²v m c o^auq/ fkm²u jcto cf km mvr qrc 2r²u²v ku0 Mrgdgnudgti gv c o wpn² o kpf gp t²ul rgv^ancpf »cp c rgi dgj c>ddcp hqi rcmq| vwc0

Gi qpf q^auc ô o kp²v o kpf gp o^au jcuqpn> gugvdp ô gl cmcnqo / o cn ku c| xqrv jqi { c| ^arf q| cvd>n c v²tucf cnqo pcm ku nk ngn xgpplg c o ci c t²ul²v0 C| 2r²ngl²u²u c ul go²n| gv hppvctv^auc ^amco k hgnfcv fg gi {2dnf pv p{kxc ^am c| Àv vx^addk cfqo^ap{qm ul^ao^atc0 Hrtg/ 2vj gvgv²Àn e²n| icv t^a c p{kx^apqu^ai gn w. o kn{gp ul²r xqrpc. jc c o^at t²igp o gi tgpfgw J g{fg/h²rg tghnmt j^aterfnqu 84.222 ctc p{/ o^atnl^av Ài { rjg vpg nk²gpk jqi { èc jvcv cu o ul gttg t^ax²uj gv p²pm c| qnpcm c o ge²p^auqncm pgx²v cnkm pgj²| kf ndgp ^arf q| vcm c o ci {ct euknci^aul cv o gi o gpv²u²t²v0 Pgo eucm pgo |gvpgxn xqn< ul gtvgw xqrpc c nwn^atc Ài {2pgm o ge²p^auqnev ku pgxgp²0 Go gm/ fgv hgn²u^av o wcvl. jqi { c| ^arf q| cvn²ul u²i dgp c| cp{ci k ul go / rqpvmq² v^an c| gtn²4euk t²ul xqrv ul^ao^atc c hqvqucd< o ci c| ^arf q| cvn²ul u²i xqrv ul go²dgp 2r²pcnet^auwpm hqn²t lg0 O^at go rñ/ vgwgo. jqi { c hgn² n ncrqw cmq^auqnev i {³n²tvngp²gnpgm vgnk/ vgw0 C| ^arf q| cvn²ul u²i xku qp²v dl²qp{²qvc. jqi { c pgo |gv n²/ wfcv c o q| f wvo gi u o ci^a2 pcm²t| kc nk² |^{3/4}vu gpve²n0

C v^atucf cnqo 2²fgm f²u²pgm hgmgn²ug²u 2²dtgpctv^auc e²ri^ad>n ngl fgo²p{g|vg c èUgnci euknci^aul cvk gi {gu²Àvgv0 C| gn n²ul² À²/ ugp. o²i 3;45/dcp. dgu²fgv o qpfqw. jqi { o ci c ku rtrqci cp^av euk^ariqp c èrgi ul gdd vgt²ul gwwf qo^ap{pcn². c euknci^aul cvpcn0

Mhglvgwg. jqi { c ngi pgi g|gdll2p vcrp o^at v^hn xci {wpm ogtv rgn/ m^hpm o gi gt u^h3^hv u gu^h p^hwm o ci v^hncv. jqi { c| gn| pgo |gf²ngn/ v n^a wgw nkpeugngv c l^hk pgm o kpf gp^a r^hq| cv^a t^ap ku vx^a ddcflw^h0 C| gi {gu^hngv hqto ckrci 3;460 o^alw^hdcp c^hrcmw^h o gi 0 E²n^hv |vg nk jqi { c| qtu^hi w^hf^hqo^a p{ngf xgn²u w^hf^hqo^a p{r^atvqn^h pci {n^h4^h3^h/ u^hi²xgn c euknci^a u|cvqv²u c xng^h tqn^h w^hf^hqo^a p{qu^h v^h4^hgnx²ugngv o gi kuo gtvguug. o gi ngf xgn^hguug. vx^add^a. jqi { c o gpgm^h v²u ^hh^hn h^hn n^hq^hw euknci xk^h u^a n^h w^hf^hqo^a p{qu^h u| p^hxqpcn^h vct^h u^h pcm ^hh^h i² v gt^hn^h4^heuk²u cp{ci k^h v^h o qi cv^h uen gn o q| f^huc⁰ C v^h tuc^h i 3;47/dgp eucm C^ho cpej qv cfqw nk c n^h4^hgvng|²xdgp c| qdcp o^at o gi kpf^h v/ jcw^h h^hn^h »k^hc^h v^h k^h0 C ukngtv o w^hvc. jqi { c w^hqm u^a o c o^at c| gnu²xdgp h^hn^ho^h ^hh^hnc c| g| tgu r^hvul^a o q^h0 T²u^h xgw M^hgdgn^hgd^hti c euknci xk^h u^a n^hm d^hw^hcr guk n^hq^hi t^hguu| w^hp k^h0 G| c^hmc^hq^ho o cn p²o gv/ p{gnx d^hgu²fdgp c vci km^hu o ci {ct v^h4^hv^h pgrgo^a wgn^hpv²u²dg dgrg/ h^hi n^hrc kuo gtvgw c o ci {ct euknci^a u| cvk^h v^h4^hgnx²ugngv⁰

C o^a uk^h k^hv^h |gv c v^h j^h cp{k gi {kng M^hgdgn^hgd^hti ngi v^h/ddgv xkcvq^h cm^hq^hv^h uclpcn⁰ Vcr^hp gi {gv^hgp o^au o x²v ugo n^hq^h2^htv^h c^hpp{k n^htk^hnc. v^h o cf^au. i^h ^hh^h {q^hn^hf^au. o k^hv c ^hh^heuk^hd^htr cv^hq^hr^a v^h ^hh^h ô c j^h q^h {cp c| weck u| gng^ho gu^h2^hi c| k^hv^h |o²p{v j^h c o t^hq^hcp g^hmg^hgu^h vng^h0 D^hk^h q^h{qu. jqi { g| gp c r^hq^hv^h vcr^h m^hq^h |qw c ngi pci {q^hdd²tv^hng^h gv^hpv²i i gn co k pci { u| ». ogtv c|²tv^hng^h gv^hpv²i. c| go dgt^hk^h2^hi g^h eu^hq^ht^h |cv^hcp n^h4^h nk^hpeug. g^hr^hi pci { cf^hci q^h udc^hp l^hw^hq^h M^hgdgn^hgd^hti n^h4^h r^a n^hlc n^hq^h2^htv^h ^hh^ho

C o ci {ct dk^hn^hi k^hck^a n^hq^ho^au h^hn^h n^hq^h u^h p^hcm i q^hf^h q^hvc o^at 3; ;4/dgp h^hno gt^h v^h c V^hgto²u| gw^hf^hqo^a p{k V^a tuw^hcv^a n^hcv^hcpk qu^h v^h n^h d^hcp⁰ C^hmq^h c| qdcp o²i gi²u| gp o^au gn h^hn^h v^hngm o gngw ngi gv^hw c v^htxg^h |g^hv^h uv g^hrk^hf^h |cp^h0 C i q^hf^h q^hvc gi {km r^htr^hci^a n^hlc. X^hcti gn I^hgp. r^hn^h c t^hx^hk^h p^hk^a n^hq^ho^auv cl^a p^hq^hwc o k^hv^h p^hcm u c| k^hv^h |o²p{v c| Cf^htk^h r^hct^hv^ap. g^hug^h/ r^hi H^hk^ho²dcp n^hq^ha^h p^hc x^hq^hpc g^hng^h |g^h p^hk⁰ F^hg o ct c m^hq^h x^hq^hncm u| c^hn^h go dgt^hgm ô k^h0 G^hpv I²|c. J^hgto c^hpp Q^hw. J^hq^htx^a v^h I²|c ô c^hnk^h c D^hcrv^hpv cl^a p^hq^hv^h n^h0 C x²rgo²p{gm o gi qu^h r^huc n^h4^hgvng^h |o²p{gn^hpv c|^a n^hcv^hcpk²u p^h3^hk^h p{v^hcpk u| c^hn^hq^h u^h n^h c m^hq^ho^a p{p^hcm c|v l^hxc/ u^hnc. jqi { n^hv^a n^hq^ho^auv r^hv^h u^hg^hug^h. o k^hf^h gi {kngv 82.222 h^hq^htk^hpv{k n^h4^hm^h2^hi i gn²u 8222 h^hq^htk^hpv{k²xk f^hq^hv^h ek^hxc^h c| gi {kngv c D^hcrv^hpv o gngw. c o^a uk^hncv H^hk^ho²dcp⁰ C v^htxgn c^hmq^h pgo x^hnc^hu^hncm o gi 0 M^hfu dd N^he| { N^hclqu xgv^hng^h |g^h2^hdg c| ^hh^h |gv. cnk j^hcv^h t^hq^h |qw^h c d^hcr/ v^hpk o gi q^hn^ha^h o gngw h^hi n^hcv^a n^hu^h0 N^he| { ô gnu uq^ht^hdcp G^hpv w^hf^hq/ o^a p{qu x^hk^h u^a n^hcv^hck c^hrc^hl^a p^h ô c| |cn²tx^hgn jqi { c D^hcrv^hpp^hcm gi²/ u| gp ucl^a qu²u t^hgp^h n^hq^h n^h i c| f^hci h^hcv^alc. co gn{pgm nk^hpeugd n o^at g^hff^hki ku 922^a n^hcv^hclv j^hq^htf^hvc^h 3^hu| g w^hf^h »ucl^hpm o k^hf^h gp o^au o gi/ q^hn^ha^huv²tv^hng^h gv^hpp² v^hpp^h0 N^he| { v^h4^hgnx²ug^h ugo ukng^h n^hgn^h0 M^hfu dd.

o^at 3;47/dgp. c Oci {ct P go | gvk OÀ gwo^a mcw^atc T²xh^À4³p. c nk^À4^amqo^au go grgk jgn{k²i gldgp jcv o wpncj gmf gn o²i ku grkpf[¶] vqw gi { mwc[»]a mqo^auv co gn{gv t³4 v³p c| gnu²xdgp m^À4³afk mwc/ »m ku hmggtgugv⁰ C| kp²|o²p{ dgtgpf gl²u²pgm o gi hgrn gp nk^at[»]nci o qthqⁿi kck k^ap{dcp fqni q| qw⁰ O^at c| gnu²xdgp hqn[»]kcvq ku cfqw nkCtej[¶]kwo Dercvplewo e[¶]gp⁰

G| c ulgt²p{ ngl fgv j[¶]kvc hgn Mrgdgnudgti hki {g^m2^v c vx^addk rgj gv t²i gm nkcnp^a|^au^atc⁰ O²i c vto²ul gwwf qo^ap{k nqpi tguul wu³4ul g^À7^{ug} gn w ekmgv[¶]v. co gn{dgp nkhlvgwg. jqi { c dkn[»]i k vgt²p ugo o ctfcj cwpm gn ul qo ul²flckpm o³4³w< tgpfgmg²u^Àpmg^am c Dercvqp. co gn{ c|^amcwcpk mwc^vuqm ul^ao^atc gul o²p{k vgt^Àg⁰ O^at gmq^t *3;470 fge⁰ 470+ o gi go r[¶]kk jqi { c v^lj cp{k nqⁿuq^t crw o gi hgric vmgvx^au^atqn⁰

Mrgdgnudgti t²i k ulgtgm gug xqⁿ c Dercvppcm co gn{ rtqdf⁰a^k uqncu^ai^axen ul kpv²rgv x²i²ki hqi mcml vew⁰ M^À4³p³4gp ngf xgng c v^lj cp{k l²n^li kvg⁰ O gi ner v v g nku l²4^fctcd v³4^vpgk rgxgi lg< K⁰ Cpf^aupcm c nqⁿuq^tcr[¶]« nk^an^lpcm go rⁿg. c vgo rⁿqo f^{tr}^af/ nqt^k n^rqp^alc c| crcr[¶]«³4³m p{wi x> jgn²xgn uvd⁰ —i {²t^lk jqi { c| gi²ul t²i gu o ci {ct o^Àv vⁿl^lml km kw c vto²ul gv ul²ru²i glxgr⁰ G| v c n⁴p{g| gvg m^À4³p³4gp cmcm cupcm i qpf qnc cttc. jqi { c o ci {ct l³k v gn n²ul[¶]v kl^Àu^ai p^xgr²u²dgp t²ul v ner lqp⁰ Gi {k^l dgp qf c v^txgl v^g c| cpi qⁿnqⁿi² kwo qv co k o clf U^tqur cⁿq^p xcn[»]uⁿ o gi⁰ Qw cmq^v o gi c h kunq^rk kl^Àu^ai urqt^vvgr²v⁰ U qf c²r[¶]vgwg c o ci {ct²rgwcpk kp²|gv⁰ Mrgdgnudgti p²n o kpf gp³4ul gh^Ài³4w u pgo gi {ulgt c n^gi gul o²p{kdd e²qm o³4³w ku li gp²rgt^gxcn[»] i {cnq^trvk gni qpf qⁿuqm dwn^lncn⁰ M[¶]w²i vgrg^Àn cttc ku i qpf qⁿ v jqi { c| kp²|gvdgp fqni q|» m^À4³afk wf[»]uqm o clf rtqr ci cp^av eul^aipcm c Dercvppcm⁰ C x²i n^gi nk^lqto^an^fq^w v^tx o^at jgn{gv ner c vto²ul gv wf qo^ap{k nqpi tguul wu dgu^ao qn^l j q| eucqⁿ v³4x²p{v^txgl gvdgp²u cppcm kpf qnⁿi²dcp< ë 000 pgn^Àpm o ci {ctqⁿpcm xcp gi { pci { vto²ul gv nk^{peu}À^m Gw[»]r c n^gi pci {qdd²f gux^l vxc. c Dercvqp⁰ Gppgm²rgwcpk^amcw^vuc c o ci {ct wwf qo^ap{qu^fi pcm ur gel^lku n⁴gng| gw²i g⁰ C Dercvppcm²u n⁴p{²n^lpgm^amcv²u p³k²p{xl^fi c d mwc^vuk rgj gv t²i gv p{lv o gi. ²r r gp gl²tv c dcrvqpk r^o pⁿi kck^amqo^au i qpf qⁿvc³pn²pv ul²rgug^fkm nk c o ci {ct dkn[»]i kck kp²|gv nq^{pegr}ek^la^x. o gn{ kp²|gv e²nlckc c tgp^fn^lÀⁿ ngf xgl hgn^x2^u V^lj cp{dcp c vmgv o^at o gi ku xgvo⁰ M^À4³p³4gp j c ukng^Àpk hqi c| kp²|gv cn^atkwo o cn²u vgt^atkwo o cn vx^add^a n^lu²trgv^amcvqm dghqi cf^au^atc ul qn^an[»] nkuk^vm[»]xen²u p³k²p{j^a||cn n^gi²ul[¶]gpk^À { gl c| crcr[¶]u pci { r^gpf^Àrgvgv hqi cf pk c|²rgwcpk wf qo^ap{qⁿpcm

j c | a p n d c p 0 F g o 2 i j c n g l f g v d g p o g i k u n g m o c t c f p w p m c r k o p q n i k c u l n g d d n g t g v k n 3 4 w k n g p k p v | o 2 p { v n k i g p u q n e v x a t j c w p m o k p v c l v c r q t q u l q m r n p k c f a p q m j k n g t 3 4 k 2 u c l q u l v a n q m n p l k 2 f g u / x k k a m q o a u p c m r 2 r f a l c 2 u g t g o 2 p { g o w e v a n 0

C | k p v | g v c m r n 3 4 v 3; 480 c w i 0 470 2 p v g w 2 m r g 0 C | g n | p e r q p M r g d g n d g t i e k m g v f l v g i { k m g n g t l g f v p e r k r c r w p n d c . c o g n { d g p k i { g / n g l g w c n 3 4 x 2 r g o 2 p { u l a o a t c c l A l k p v | o 2 p { l n g p v u 2 i 2 v o g i x k i / i f c p k 0 C x k i j a d q t A w 3 p c v g t o 2 u l g w w f q o a p { q m h n g i c d k q n i k c 2 u c n 3 o k c . c o q f g t p m w c v u q m n 3 4 2 r r q p v a d c n g t A n g n 0 P a n w p m c n 3 o k c . c o g n { p g m i { c m q t r e k j c u l p e u l g o d g u l 3 4 n . x c r j q i { c p o 2 i g n x c p r f w c 0 C p p a n o q u a j a d d c d k q n i k c u q t u c . r g f k i g p p g m k u o 2 t j g / v g w p p c i { c i { c m q t r e k h q p q u a f i c k u h n g i c l q t x q u w f q o a p p { c n x c n x q p e n u l a u d c p 0 U l q o q t A v A p g v p g m v t l c . j q i { r a t r q r k k n e k u l g o / r q p v d n k u d g r n q p v t n q f p c m m w A t r q r k k n e k n 3 t f 2 u g n d g 2 u n g l f k m D q n e r p k c w f q o a p { q u m w e v u r a t v q n a u v c l g t t g h q t f l q w 3 4 u l g i g n g v 0 C l v k u j c p i q l v e l a m j q i { g l g p c v 2 t g p e u c m c p c i { a m e o q m h g l v g v / p g m n k u k n g t g u v g x 2 n g p { u 2 i g v 0 C l g o d g t k 2 i o x g n f 2 u v 3 4 v 2 p g v g p p p g m 2 r r g p c l g n g p n g l l 2 v v p f l c 0 M r g d g n d g t i n g f x g p e v 2 o a l a p a n x c p < c n k a m e o q m m w w a r k u j k x c v u v h g l v g i g v g w 0 C l q r k c u v c v 3 4 v 2 p g k r 2 r f a m g i 2 u l | v j c v i a x c n a t c u l v c g n c i 3 4 3 4 n k a m e o q m n n g l f x g c t g p c k u c p e g n k a m e o c l p n g t g u l v a n Y g l o c t k i 2 u D e l q t q u l a i k i 0

C | A p p r 2 n g u c m r m n g v v m q t o q p f q w d g u l 2 f 2 d g p k u o g t v g w c l k p v | o 2 p { o w p n e r t q i t c o l a v 0 G u l g t k p v c l n g u l c h g r c f c v . j q i { c w f q o a p { q u m w e v u . c l k u o g t g w t l g u l v u l g o r f n g v 2 u c v p a t / n 3 r l 2 u e 2 n c k v u l q n a n c 0 M k h g l v g c l v c t g o 2 p { 2 v j q i { c l k p v | g v m a n 3 4 f 3 4 p k u d g e u A n g v g v j q l o c l f c o c i { c t p 2 x t g u 2 t v n g u 3 4 u l g n 3 4 w / v 2 u g n g v u l g t g l c o c i { c t w f q o a p { p c n 0 D l q w c d d e p . j q i { c m a n 3 4 f t 2 i k j f l g u j c u q p n k p v | o 2 p { g k x g n j c o c t q u c p h e n w f l c x g p p k c x g t u g p { v 0

C | k p v | g v d u 2 i g u g p d g x a n q w c c j q l a h | 3 4 w t g o 2 p { g n g v . f g c m q w l a t c o a i p g u n 3 p v x q p l q w c c v o c f a u q n e v 0 M r g d g n d g t i g i 2 u l g n g p l 2 n g o r g f k i g l g n u q n e v o q p f w p m o n k r t d a n c t e l v u l g n g / o g u a i 2 v 0 O 2 i j c r f n c w 3 p k u h n 3 p v g l c l k p v | o 2 p { o c t c f v o g i e r c l c t r f u c k i d q a p { n 3 4 g n 3 p v o k p v c j q i { c p r i 0 c l g i 2 u l e t g p f u l g t / p g m i x q n v o k v j c n e p k N k r c h A t g f 2 t v 0 M 3 4 d g p o 2 i c m a n 3 4 f k t a f l e n d c p k u u l g u g w c V l j c p { d e p h q n l m w e w o w p n t l t n 0 G i { k n g p g n / c f a u t n 2 t v u A n g M r g d g n d g t i n g u g t g p l g i { g l v g o g i . j q i { p a n w p m o 2 i c m q t k u e j c r d k q n i k a t n h q i p c m d g u l 2 r p k c o k n q t o a t c l g i 2 u l x k i i q p k u o g t k m o c l f c v j c p { k l p v | g v w f q o a p { q u l n g p v u 2 i 2 v 0

G i q p f q n u c k d e p o k p f c l . c o k v g f f k i k u o g t v g w A p m e u c m u l g t 2 p { f l g n f v x q n v c v x a d d k v g t x g n j g l n 3 r g u 0 M r g d g n d g t i g i { k m n g i a m c p /

f>dd v4gnx²ug c| xqnx jqi { c o ci {ct vgo²u|gwwf^oa^p{k mwc^vu u^lo^atc ègi u^li gu vgo²u|gwwf^oa^p{k vgrgr^gvi ô t3k^fgp< èo ci {ct Fcjngo i/gv ô ifv^uugp0 G rqpvp n^lw^li vgrp^lÂn pci { jcv^uc xqnv vgtxgk n^lcrn^wu^ltc gi {n^ltk dgt^lpk vcp^at^apcm Jctpcem Cfqt^lpcm 3;2;0 ppxgo dgt 430²p K0 Xk^oqu eu^lu^lt^aq| kp^v|gw go if^lnt^lev. co g/ n^lgv Mrgdgn^udgti c w^lf^oa^p{rqrk^lnc n^ltu^lcn^lv cm^lu». m^lcu^lku^lw f^lq^lw^ogp^wa^pcm vctv^l0 G| c o²n^lp j^lf^lgu go if^lnt^lev n^lh^llv^lgv. jqi { c w^lf^oa^p{qu c^lnf²o^lk^lm²u gi {gvo gm o g^lnv u|Âm²i xcp c w^lf^o/ o^ap{qu kp^v|gvmpgm gi { jcto cf^lkm x^ath^ltc. c u|» u|qtqucdd²t^lvn/ o²dgp xgw n^wcv^luk kp^v|gvnt^l0 Kio gtgvu. jqi { c Xk^oqu eu^lu^lt^a/ v^ltuc^li f^lcjngo k m^wcv^lkp^v|gvk h n^lgi Jctpcem n^lg|fgo²p{gl²u²tg l3^lvgm if^lvg0 C o w^lpn^ldcp ki gp pci { t²u|g xqnv o²i Cn^lq^lh^l/pcm c rqtqu^l n^l4qmc^vu^lÂi {k o k^lku^lv^ltkwo l^lng^lu w^lf^oa^p{rqrk^lm^wpcm n^ltk n Mrgdgn^udgti o k^lf^lki pci { n^lgi {g^lrv^len go if^lng^lgw o gi 0 Cn^lq^lh^l k^ap{f^lqwc c h^li {g^lo gv c Dgt^lrk v u|qo u^l2^lf^lu^li^adcp h^lgn^l f^lcjngo k n^lpeu^vtk w^lcf^lcn^lo vgt^lÂr²tg. f^lq^li q|v^lnk c t²u|rv^lgu vgtxgn^lv u co k/ n^lqt o gi j^lcn^l: K0 Xk^oqu kp^v|ng^lf²u²tg j^atcj^lci {q^lw k^levk c^lcr^li^ap tgn^lpu^lv^ln^lm vgtxgk. co gn^lg^lnv c|w^lp h^lq^l|cv^lqcp pci {qdd²u^lv o gi ku^lx^lcn^lu^lf^lq^lwn0

Mrgdgn^udgti c Jctpcem^lvⁿ u|gtng^lu|v^lg grk^l c^lcr^lqp k^lpf^lwn gn fg vgo²u|g^lu|gt n^lgi c o k x^lku|qp{cl^lpn^lq| n^lr^lg^lu^l o gi h^lern o »f^lqu^lv^lu/ uc^l0 U|gtk^lv^lg. o k^lv^lqi { c n^lkp^lgo|gvmp²n c o Â^lg^lwo q^lncm ku o gu^lg/ a^lic|». pci {h^lpv^lu^li^lÂ w^lf^oa^p{qu o w^lpn^lv n^lgm n^lh^llv^lgvk^lÂm c j^atqo x^ath^l o gn^l p^lgi {g^lf^lkm^lpv q^lc n^lgm x^lgp^lÂm c o Â^lg^lwo q^l0 C if^lvg^l/ v^lpf vgrgr jgn^lÂn j^lqu^lcdd k^lpf^lq^li^au w^lp c N^li {o^ap{quv u|go grk n^l0 C t²u|rv^lg^lmt^l x^lq^lpc^lnu|» vgtxgm r^lkj^lgp²uv pgo kuo gt ci^av^ancp/ f>cp h^lq^li^lem^lu|v^lw^lnc c h dd n^l4x^lq^lpc^lem o^at c vgo²u|gwwf^oa^p{k n^lq^li^ltg^lu^lw k^lr^lq^lpv^adcp n^lcrn^wu^l0 C vgtxgn^lp xcn» x²i u u^lo f^lv^luv c| Q^lu^li^aqu Vgo²u|gwwf^oa^p{k Vcp^ae^ltc n^lf^lk^apv^l d^l|p^l0 Kio gtgvu. jqi { c pci { v^ltx o gi j^lk^lu^lwn0 Mrgdgn^udgti n^lu dd ku u^lqu^lqt x^lku|c/ i q^lpf^lqv t^a u o²n^l{gp ucl^anc. jqi { n^l4Â^o2^p{gm gt ugddgn^lpm d^lk^le / p{Â^lncm l» u^la^lpf²nc^lkp^ar^l0 G| n^lgv x^lq^lpc w^lf^oa^p{rqrk^lnek u|go r^lq^lpv d>n c n^lgi pci {qdd d^wf^lcr^lg^lvk cm^lu^lv^luc0 O k^lgn²rv²dgp² u j^lcf^lnc w^lp ku v^l4du^l3/4 h^lgn^wnc^lpv c x^af. jqi { D^wf^lcr^lg^luv g^lcp{ci q^lnc u k^lpn^ldd c x^lf²nk x^at^lqu^lncm l^wcv^lq^lw o k^lpf^lgpv co kv e^lucm w^lf^lq^lw. t²f^lgo gu n^lu| c vgtxgv fg n^l4p³ugp c o gi j^lk^lu^lw^lu n^l4Â^o2^p{g^lkv n^l4gr^lgddt n u|go Âi {tg x^lgp^lÂn0

C èo ci {ct Fcjngo i vgtxg n^lw^li vgrp^lÂn c n^lgi p²o gv^ldd Mrgdgn^l/ dgti 3/4u|gu w^lf^oa^p{rqrk^lnek g^li q^lpf^lq^lu^lck n^l4Â^o Gppgm q^lnc pci {q^lp gi {u|gt < g^lgp c r^lq^lvp c p²o gv u|gtxg| gt cm^lu^lvc c n^lgi pci {qddcv.

c rgi ukngt Ångddgv c o kpcu|gt 0 Mrgdgnudgti qppcp xgwg c l»v cj qn
 c|v c rgi u|gdd nkkxgndgp vcrfnc0 Ocic ugo vknqnc. jqi { gmftvg c
 p²o gv kngv²ngugv n c| cncr xgv o go qtcpfwo qnev o vprfrcvnev.
 2r ¶²uk vgtxgngv0 Fg rñ wwm jqi { c o ci {ct u|go rqpvd»n u| Åm²i gu
 o »fqu²uv vgt²ngp { gr²lg c|qppcn gr²i gl vgt0 MÅ²pdgp ku jcp/ /
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 fncr²dcp c rgi pci {qdd ki c|u^aicrpu^a rppg Mrgdgnudgti ²rgvo x²/
 xgn nre euqrwdcp ô o kpv cji {cp gl v o gi vgv²m ô c p²o gv nwnÅ/
 rqrknc l^at»u|cvi^av go rgi gvpk0 Ocic ku dgxcnc. jqi { uqnev vcpwn
 c p²o vgvn r0 Fg uqnev vcpwn o^auqm»n ku. r r0 c| qru|qm»r0 C pgg/
 pcelqpk²o wu i qpfqrw²kfi^av ô o kpv o clf t²u|rgvugp rñ yk hqilwn ô
 c hcuekvc i {cniqrvc vgt²ngp {¶gwg o gi0 Uqnev vcpwn c|qpdcp c|
 cpi qm»n^a ncr²dcp c| cpi qu^au|qm»n ku0 Vcrf p kpr²dd dk qp{qu
 gi {qrcnÅ grtqi wmr^ai i cn rñ gvgp x^afqpck c| w»ddkem lcx^atc. o gtv
 p{¶ncp ngv vctqvc c l³k go dgtgkgn# O kpfgtt n o²i o^au xqpcv
 nq^auqndcp u| » guk0 Kv eucm eppcm cnetvc Å^av x^ai pk jqi { Mrgdn/
 dgti gi {gu wcr²ucl»nxcrcnkqi vcrp^a ncr²pqu²utc hto^a rqp cncr q0

C rñ vgu²gpf vgr r jgn²v jqu|cu v p f²u w²p u|go gwg nk0 I qp/
 fqv c X²to gl tg. o clf t³k² kfgi e²ndcxgwg c| — U gpv l²pqu/m²/
 j^a| o ³/₄ ³/₄v j Å »f» vgt Årgv0 X²i Ån o kpf gp u|go rqp v hki {grgo dg/
 x²vgr²xgn c rgi lqdd o gi qrf^aupcm x²ng c rñ i {o^ap {quk0 Gttg nÅ²/
 p³gpp n²v o q|cpcv hki {grgo dgx²vgr u|qt¶qvc< c vgt Årgv n²/
²u c x^atqutgpf gl²uk vnkpvgdgp n²p^amq| » pci { rñ gv u²i gn0 ÈJ c o gi /
 i qpfqrlwm ô ¶lc ô jqi { Dw²cr guv dgr^atqc c Hgtgpe L>|ughj ¶
 rguk j ¶h l²p²n²t x²i gv u|kpv gn ugo cnetlwm jkppk jqi { kpp²v crki
 gi { rwunc²k²up {kg. c dw²ck j ¶h p²n gi { rñ r d |³/₄ ³/₄. co gn { xcn/
 u^ai i cn gr^arcu|vc c Hgtgpex^atquv Mergph²4v r0 Gpp²n u|go rñ rvgugd/
 dgp crki rñ gvgw xqpc nkglglpk c x^ai {cv. jqi { ³/₄u|gn²4ug c jcu|pquv
 c u²rrgn c vgr rñ vgu²u²v Dw²cr guv x^atqutgpf gl²u²pgm gn ddtg/
 xkgr²xgn0 Nmgugp hglvgi gwg c nku|go gv vgt Årgv vx^addk gn p {gk<
 Fcj rgo v²gpp {qrë nkqo²vgtg hgm|kn Dgtrkpv n c o k vgr Åpm r^at/
 u^a| o²vgtg rgu| c Dgr^atqu»n vg^av c u|cngo dgtgngv²u c| gi {gvo k
 jcmi c»nev pgo ngn ëc x^atqu nÅ²pd³/₄ t²u|gldgp^ancp»cp p {cti c/
 rñ u|vcqm= c vgt Årgv cnuqtc. jqi { cfqwr^ai ckcn rñ cr²dd u^a|²xtg
 u^ao qj cwpm= u c| ugo wqn» u|go rqp v jqi { cncr l^adcp x²xg^anc o k
 wrcf qpt»n xqrv u| ». co gn {pgm^a vgi gf²u²v c o kpu|vgtgp³4n o^atku
 nk²v²udc j gn {gl vg= c h x^atqupcmeucmc hgn²4v nmgppg x^ancpk0

Pgo n²pp { hrcf cv ctt»n dgu^ao qpk o k o kpf gpv vgtxgl gw gl
 c i rgi pci {qdd^a m Å o ci {ct mwwu| o kpu|vgt c nku|go gv vgt Årgv g0

Vgtxg|igv²ugk jquu|cdd kf gki hqttcm u n³⁴dgp c i qo qn{ci hqto³lc
o kpf ki o »fquwñ0 Ngi o gi d¶|j cw»dd f qnw o gpwo pcm hqi cf j cldwm
gn c vto²u|gwwf qo³p{qm²tf gn²dgp vggpf kp²|ngf²ugnt n vgtxg/
|gw v⁴x²p{lexcurv kpf qnqñf³dcp n hglvgw r tqi tco o l³v. co gn{/
pgmgi { t²u|g o³t gttg c vgrt g xqpcvñ| kn0

Gr⁴i³t»dcp ô vñf p c x³tj cw» v³o cf³uqñpcm gr²dgx³i xc ô
j cpi uñq|c. j qi { nci cñ dd n³v²xw|gf gu vgtxu|gt o wñe cñr lckv
n³x³pp³ rgtcmpl0 Iqi wpm²u n³⁴gñu²i Apm ô j clxqi cvlc ô³vñqi»
r tqi tco o qv nkf qñ q|pk o gtv c vgtxu|gt cmñv³u c nci qñe»dd u gi {/
Àwcn c nci j cu|pqucdd0 C nci e²n|gt ddpgm vtcv³. j³ c|³uñ|gu dwf c/
rguk h kñqñf m²u o³u wwf qo³p{qu kp²|gvgn vto²u|gwwf qo³p{k
t²u|gkx. rdqtcw»tkwo clv gi { n³⁴³⁴i pci { vgrt g j gn|g|p² u g|gnv gi²/
u|³gp² nk c u|Ñm²i j g| n³rguv o gi hgn n mwcw»kp²|gvgnmñ0 W|{cpkw
u|gtgp² o gi qñf cpk ô 84 j qñf p{k vgt³vgnv ô c| Qtul³i qu P³x²p{/
ngtv r tqdñ³o³l³v ku0 J cvm cu vgtx# J q|³hqi j cw»v o²i . c ãngi/
pci { qdd³m Æ ugo i qpf qñ gn o³uqf u|qt0 Gn tg uglk j qi { o clf o gi
ngm n³f gpglg c ãhcnw³u r cvtkw|o wuññ0 H nci c dwf cr guk gi { gvgo k
qtxqumet gngp³m³t³c u³o³ñ0 I qpf qñ c|qpdcp c d³⁴eu²u|gk net gugv/
n³i gu gngpu|gi Æ³t³tg ku0 Fg gn|³pvc o ci³v. j qi { kv ku. qw ku hñrgu|k
c j cteqñ0 M³ñ³pdgp ku c d³⁴eu²u|gk net u|²x³rcu|v³t³c. co k c n³t/
f²uv r³p{gi²dgp grf³p³⁴v³g xqpc. o³tku o gi xqñv c r²p|Æ {k hñj cvñ/
o c|³uc0

Vqx³ddk p{krcvñ|cvck Æcdd t²u|ngvgnv³twpcm gr0 Rcpñ|ñqf km
j qi { c r qñkñek n³⁴wfcvdep rñi {o³p{quk vgtxgk gnqt|wñcñ0 T³hqi/
v³m rññ j qi { euwc mwcw»kp²|gvv vgtxg|gw xqpc0 G|gn u|go dgp
j cpi uñq|c. j qi { gn uqtdep c O gi {gvgo pgm cnetv o gi hgn
n³o lck hcnw³uv dl³qu|cpl0 Gj j g| l³twñem xqpc c dwf cr guk qtxquk
net Æ gm²rgk²u c d³⁴eu²u|gk net Æ vto²u|gwwf qo³p{k kp²|gvñ0
J q|³lwm uqtcñ|qw xqpc c vto²u|gwwf qo³p{k o Æ gwo²u gi {/n³v
mwcw»kp²|gvñ0 C| w»ddkcm n³⁴³⁴v ngw xqpc rññ c| Æ i {»i {o³f qñ
n³n nñ³²trvg| gzr gñko gp³iku vgt³r lck kp²|gv u G³⁴x³⁴i N»t³pf mwc/
v³uclpcmhñ|cv³t³c gi { i gñkñek kp²|gvñ

G| c| w»ddk m³ñ³p³⁴vgnv uqñv hñi rcñq|vcw Mrgdgnudgti hcp/
v³|k³l³v0 P go eum c| G³⁴x³⁴i lpi c pci { i {cñqñrcv k²t³vng. c r gvt»/
ngwo/mwc³up³n xcn» u|gtgrg k i cwc0 Gi {pggup dgeu³ngvdgrk n³⁴g/
ngñ²i pgm vtvqwc. j qi { c pci { o ci {ct j ci {qo³p{v o²n» o³f qp
hñ|vcuwnñ0 Ë0 kpj qi { G³⁴x³⁴i gm wcu|vqwc. j qi { o u|gt²tg u|c/
dcf cm cv n³tlgp.cppcm i {³t³v³v m³ñ³f k e²i gm tci cf³m o ci wñj q|. u
j c o²i wwf qo³p{qu o wññ l³v ugo hñ|vcldwm o k o ci {ctqm cñqt
c| gi²u| nqtu|cñqu hñf g|²u rcuucpnkp v grx²u| c o ci {ct wwf qo³p{qu/

i^ai u^ao^atc u c m^ārī^āf ucl^a¶lc m^ā U kv o^at o gi xqrv c u l gtxgl gk
 crxr ku. co gn^lgv ēvtxul gt gp vⁱi¶cplc rj gvgw⁰ Cppcm kf gl²p G^āx^āu
 mwcv^āuck ô 3;29/v n ng^lfxg ô ²xk 82.222 M ugi²n^ldgp t²u gū^āngn⁰
 C hqn^l» ncf^auqm o gm^lgw gdd n c^l .. uul gi d n u l gt gl v²m dg c u l Am²i gu
 o u l gt gngv ku⁰ Gl ³au^l gi ugi ¶u²i²xgn c^lenmw nk ô c vcpu²nj gl
 ner euq^l» h^k kn^k kp^v | gw n gr^arcu^lxc ô c n^lu ddk d^at²» G^āx^āu
 N^l» pf i gqhk kn^k kp^v | gv. co gn^l c^lmr l^adcp x²xg c r²p | Āi { k v^āte^a j q l
 vctv^l qw⁰ Mgdgdgti o kpf gp gtgl²v ³au^l r qp vq^lqvc. j qi { gl c
 u l n⁴up grj gn^l gl gw. c h^k kn^k kp^v | gwgn vt Argvki ku ³au^l gj^a | cu^lqvw
 kp^v | o²p { u l gk o qnⁱ lck ²u h^āf o^a i pgu² i k qdu l gtxc^ltkwo c n ku
 n^kgi² u l ¶xg o²n^l» j cl^lr^lnv ner lqp⁰ C^lmr l^adcp x²xg gl v u^a pvc c vgr
 gu kp^v | gv² pgn⁰ Cl 3;48ô 490 ²xk ^amco k dgtw^a | ^auqm vgtj²tg o^at
 dk vq^lqvw g e²ntc 722.222 ctep { nqtqc hgf gl vgw⁰ P go gu. n^li { gngvu
 gri qpf q^lu xqrv j qi { ēgl kp^v | gwgn ner euq^lvdc q^lr j cv^l» m o gi
 c^l G^āx^āu/ o cv^l» ngwo n^ltf²u²v ku qn^l u l gt gp. co kp^v c v Rcuvgw/ tgn
 c h^lcpel^l m vgw² m cnk c r^atk uk Rcuvgw/ kp^v | gv gi { n^lr qrcu^l gt n^li
 nk^lr | gw vto ²dgp p { w i u l kn⁰

C o gi q^lu^a gr² x^atcvcp pgj² | u²i gm vqtp { quwcn⁰ C ēhcnw^l u/
 r cvtqv^l o wū ku o n⁴u²udg r^lrgw⁰ Mgdgdgti u^ao ¶u²uck gm²p²tg
 c d³eu²u l gk net o²i c^l qtxqul^an ku lqddcp gm²pg^lvg c v^ltxg⁰ Gl
 c^l qdcp ³po ci^adcp c^lki j c lgr^lpv^lgw xqpc gr^at^l¶j cv^lcvcp cnc/
 f^an^l v⁰ C vt Argv^a vpi gf²ug ku o gpv xqpc. d^at c^l ^amco qp n^l¶Ān
 co gn^l gl gugvdgp l^l gi { p²j^ap { o kplu^l v²tkwo qv lgr^lpv^lgw. o²i c h/
 x^atqu ²u c n⁴o vpnev^aeu ku nkgtlgl vgw² m d^āqntcvknw i qpf qu/
 n^lf^auwnev c^l gr^lkp^v | ²utg⁰ C f³pv cncf^an^l c^l xqrv j qi { c h x^atqu
 pgo x^amcnc c u l »dcp^lti » vt Argv ô hgn³u²u²# U ^ancf^adcp v^ādd
 j cpi o gi u l »nc^l uqncn^ap c vqx^addk ^arf q^l cvqnev⁰ Mgdgdgti pgm
 m^ārī^āp³up h^llv c h x^atqu u l m^lgd n u²i g⁰ Mgtgug. o k rj gvgw c^l ki c k
 qn⁰ Vc^lp c^l ²tv xqrv qn^lcp hci { qu c n⁴i { r^luk j cpi wcv o gtv c dgn^ā {/
 o kplu^l vt ²rrgp c^lmt d^lnc o gi nku² gp^lti kmwcp c h x^atqu i c/
 f^am^lf^au^lv xci { v^lp c p²rl^lr^lvk o kplu^l vt x^arcu^l vqc o gi tqul vn
 c^l k r qpqv ctc. j qi { c h x^atqu m^lt^a | k Āi { glv u l ki qtAddcp ntk/
 v^arcA C^ltc ku i qf qn j qi { v^lp vcmkn^k jkd^av n⁴kgvgw gr^lcn/
 o w^lu l vqc c v^lti { cf^luv c^l gi { gu h x^atquk euq^lqtvm xgl gv kgr^l#
 O kpf pgugvtg pci { qp h^llv pgnk j qi { kn^lgp h^lpvu Āi { gmdgp j cpi w/
 rcvm u l gtpv v⁴v²pj gvgw c f³p²u⁰ C m^lvf cteq vqn^lki pgo wf^llc
 ghngl vpl⁰ Ekmgldgp kuo² vngp xku^l cv²t c^l Āi { tg u c^l gi²u l n^lt/
 f²u² v ô p^l o kpf gp gi { gdgv ô grk c^lrc^ltc j gn^lgl xg xk^l i ¶lc o gi⁰
 Gl v c^l grk c^lrc^lqv n^li c^ldd ku ²tkpvgpo ngm o gtv h^lp { v xg^l v M^lg/
 dgdgti . . m^ārī^ā qrkknw² u c h x^atqu ner euq^lv²tc⁰

O^at c| gffki kndgp ku n³gwg| ndgp ku o gi hki {gnj gvl^{Am}
o clf Mrgdgnudgti pgm c|v c xgl gv i qpf qnc^v v j qi { c mwn^A2^{tv}
c| ^amco o gngw o²i gi {2^d n³4 Argvnp gm u v ngj gv ngi o²i c o ci^a/
pquqncm ku ^arfq| cvq v ngm j q| plqn0 Gi {^anci^p pgo nkeup {rk ng c| v
c| ^arfq| cv^u u²i gv co gn| gv c h x^atqu kunqif k n³vgu^f u²xgn hppp/
vct^v u²xcn vx^add^a h ngi c p²ro xgn^u vt²p j q| qw fg g| v c Dwf c/
rgv^{gp} 3/4u| gv^o 3/4^ggw pci { ^amco k mwn^Akp^v| o²p { gm ^arf^a uclj q|
n³rguv o²i o kpf ki pgo vctvc gngi gpf pgn0 I qpf qm^q f^auo »f^l v ngi/
xkfi qucddep c ucl^a v u| cxck o wcl^a m³ eO²i c nku fwp^a pv^{Ark}
hcxcm»n ku o gi ngm n³4gvgpgo . jc p²r kunqrc x^ark m u| Am²i gu².
j qi { c vmgp hgn^{Am} o²i ki^a u/ ²u n³| kpcru^a o o cn l^a twlq p j q| |^a c|
²r^{Am} |² uk n³4u²i gnj g| 0 Eucm ²rrgp Dwf cr gvgp gm l wuq p nk o kpf gp
^amco k kp^v| gv ²u ²r^{Am} |² u kpi {gpA G| v c tgp f u| gtv c| qu| w³ ki c| u² itc
xcn» vnkpvgn pgo ngj gv vx^add hpppctvpl0 Dwf cr guv o gi ner/
j cvlc gi {gvgo k x^atqu^a v fg ^arfq| plc ngm ²rr^{Am} { . o kpv cj qi { ngi fxg
U gi gf gp »u F gdtgeggp. c| qtu^a i o^a uqf km ²u j cto cf km x^atqu^a p.
ng gi² u| gp c fwp^a pv^{Ark} nku hcnki . o kpf gp nqo o wpk^a u nkxgu k c
o ci c t² u² v c| qtu^a i u| gngok Al^a u| Arg^v u² pgm pci { o wpi^l d»rfi
C pgi² u² i gm n³ w³ tc Am { j cv² tq| qw j qi { o^a uww ngtgu xcrc o k
r »f^a u0 f| { ngt^{Am} gn^v tdc c u| gi gfk vto² u| gw² qo^a p { k kp^v| vgm
pci { qdd ct^a p { A n³ r^{Am} u² ug vx^a dd^a c f gdtgegp k Al vto² u| gw² q/
o^a p { k vpu² ngm u| gtxg|² ug0 eC| kp^v| o² p { gntg pgo gi { km xci {
o^a ukm x^a tqupcm xcp u| Am²i g0 | u o kxgn c h x^a tquk v³4x² p | j cw² i k
dk| qw^a i gn³ t^{Am} qwc o ci^a »n c| ^arfq| cvqnev c|² tv o quv qfc ngm
o gpp^{Am} cj qnci { qdd o gi² tv² utg vcn³ n³pn0

O kpf g| pgo cpp { kv lgrgpv o k³jc Mrgdgludgti pgo ngw xqpc
o gi i | f² ugu j^{Am} g c| A0 p0 mwn^a nku fgegpvctik^a ek³pcn0 Cj qi { cp c
o ci c o kplu| v² tk j cv² un³4² v u| f^{Am} gvgp qu| vq| cvc u² v cwq p»o vgu^{Am}/
vgn n³4 3/4w c mwn^a nku kp^v| o² p { gngv ku u| g² gv xqpc gi² u² i gvgp
u² v qu| vpl0 C o ci { ct Fcj ngo gvg² dgp c| qpdcp o^a u c jgn| gv0
Mrgdgludgti Dwf cr gvgp cnetv cmqpk c ngi pci { qddcv c iki^a u| kv
co kp² n pci { qddtc o²i ugo o gtv uqj c i qpf qpk . cnkv v² tx/
nq^a x^a eupcm p² xg| vgm gn0 U c pci { v² tx o gi xcn» u² uc ² t|² ug u| g² kp v
o² ncv² p. nkeup { gu u| go r qpvq² p hpgmgw o gi < 3/4o ci^a dcp x² xg ku
lgrgp² mrgppgm n³ u| » u| cno cu^a n³ p cncf v gn0 Gppgm n³4gvg| v² dgp
Mrgdgnudgti n³ p { vrgp xqiv c nkugdd gmgp^a n³ u kt^a p { dcp gkpf vpl0
eDwf cr guvgn u| go dgp o f²lc o l» ²u v² u| v c r² mkuo gtvgvo V^a re^a p
j q| wco gi { gw² rck o gi qrf^a u0 C x^a tqupcm vng² u lqi c xqiv g² hqi cf pk
xci { gn pgo hqi cf pl0 J cv² tq| cvc Al hgn f² u hqn { co^a v kpf^{Am} qwc o gi 0
C| ²rgv g² xgp ^atlc j 3/4o r 3/4³4 x² i | gv| gt gp vx^a dd0 Hgn f² u^{Am}

qn{cp k^ap{v rⁱw|km xgppk co gn{ c pci{ xkf²nk n⁴o xgn f²uk i »er qp/
vqm n^hgn f²u²pgm ngf xg|θ C rⁱ{o^ap{quk r^qeuqn^adcp c|qpdep.
co gn{ ëo kpv gi{ t^Å h^gngv²m p{qo wn dg Dwf cr guv vgu²dg. dtw^rrkup
ngw^hgu|^hxg c dwfck²u c rguk f²rk t²u|gnv^h. u|ko d»no^av rⁱlc c
pci{xqpcn^hrⁱ x²i|gvgu jk²p{^apcnθ Gdd n c r^qeuqn^ad»n pgo u|³h
ngpv hgn cmq^vu u|^h{ pgo r^gjgvgw ëlgi{i{t i c pgo|gv²u c j c|c
h⁴f lg n⁴3⁴vqn{ x²i|gw|gt gp u|^hAm²i gu u|gpvgrgi{|²u u^ao^atc#

Gf fki Mrgdnudgti wfqo^ap{rqrkkn^hl^adcp c u|gtxg| . 2r^hv .
c ngtgvngv o gi t|²u c|qnev vx^addhgu|^hv cmq^vuk ngf xgv rⁱwmθ
Fg jqn o ctf c| go dgt. o kpf gp wfqo^ap{rqrkkn^e x²iu . k|c|k
jqt f q|»lc. cnkpgm cttcxn^ui c p²mAn o kpf gp eucm j qv rgn^htk u^ao .
gugvgi ^hAgu²i A Mrgdnudgti gv uqnu|qt o gi x^afqn^hm j qi{ u^ao^atc
c| go dgt²n hqpvcudd ngw xqpc c ngtgv c| 2r^hgv. c u|gtxg|gv u v
c u|qddt. c h^rhguo²p{θ K c|uⁱvncpcdd x^af gn ugo n^r|grj gv θ
Mrgdnudgti pgm c| gi{²pk gt hgu|^hugm r^gd^hj cvwcp cnetcv^h j u^r/
pgm n^gngw xqpc o ci{ct^a|pk j qi{ c wfqo^ap{v c| gi{²pk vgj gu²i .
c| cmq^vut^c k^ap{w» r^gi gi{²pkdd n^rrgu²i x^hj gvk eucm gn tgA Ugnk
xkⁱi queddcp pgo rⁱwc. o kpv 2rrgp . c| gi{²p²u c u|gtxg|gv gi²u|/
u^ri gu n^re euqr^vθ C wfqo^ap{qu o wpc u|gtkpv ku ëc| gi{²p r^gi/
u|go²n guggd o gi p{krvnu|^aucθ C u|gtxg|gv eucm cttc xcn». j qi{ c
ngf xg| gn hgn²vengv g o wpc j q| dk vqu|ucθ Wf qo^ap{rqrkkn^hl^a/
pcm r^gi hqpvcudd t²u|g o kpf x²i ki c| gi{²p j gn{gu n^k^arcu|^vu^tc
k^ap{w» v⁴j gvgvgp u^apf²nc o ctf vθ N^a wwm o gpp{ktg pgo cnetv.
j qi{ j c|^apm vx^addtc ku c ngw²v⁴v. k^f gn w o gi vtrcpv xci{
2rrgp u^hdc j cp{cv» vgj gu²i gm u|qo qt^h h⁴f lg r^gi{gpθ Hgr^hqi^au^rv
o wcvlc c| ku. j qi{ o^at k^hh^hnuqt^aw»n ngf xg uqnev gr²mgf gw cnk^a/
rcu|^vu²u c xg|gv n^r|²u pgj²| n^rtf²ugkp θ Hgr^hqi^au^rpcm o gi hrgn gp
wfqo^ap{rqrkkn^hlc n⁴2rrqp^adc c| ³u| v⁴pf^hln^rtf²uv^an^hqvcθ

G n^rtf²upgm xep qn{cp t²u|g ku. co gn{ pgo vctv|km u|qtqucp
c wfqo^ap{rqrkkn^hj q|. j cpgo kpn^hdd c u|qek^h rku ugi²n{/p{^hlv^h
e²m|cθ Gr⁴h^at»dcp gtt n ku ngm p²j^ap{ u|»v u|»pgo θ O gi h^ki{grj gv
w{cpku. j qi{ c pci{qdd ct^ap{^h wfqo^ap{qu ³u| v⁴pf^hcn^ek» xg|gv/
i qpf q^rck gn u⁴ gi{^h v i qo qn{q vcm c u|qek^h rku e²n^a ³u| v⁴pf^hcm
xku|c^an^hu^r v^e2ⁿ» v⁴gnx²ugkgnucm^hu dd n^rh^hp^hngm grθ

u| v⁴pf^hclcpm c d²n^hdgp ^hÀ pθ r^rw kn^htku dk vqu^ri ^hÀ r^rckquqm
dcp. ^amco k n⁴x²p{gndgp. |^anⁱngxgrndgp xqncm grj gn{g|xgθ C|
kpn^hek» 2t²v^hngv o clf pgo vrdgugp o gi ugo o k^hngvgθ Mrgdnudgti
g|v c euc^auv lqi cn vctvc pgo|gk n^rvcu|v»^hpm gi{km pgo lgrp/
v²mgrrp o q|cpcv^hpcm u²rrgp g|²tv c j gn{gv^h o kpf gpn^rrrgp
ugi^hngpknetθ

C o gi ugo o ku^Áv 3u| v3pf q|cm r»v^Átc o^Át o lpu|vgtu²ig ng|/ fgv²p e²nlcxgwg c| gmud|qw M^Átqn{kxci|qp^Á0 3;470 hgdw^Át 420^Áp dglg^Ápk c rctmo gpvpgm jqi { c o lpu|vgtgr³4mgn gi {gv²t²udgp g xci|qpd^Án mww^Árku Á¹2^rq^Áuk c^Ácrqv u^Ápf²nq|km r^Áv^Ág^Ápk^Á0 C| c^Ácr tgp^Ágnv²ug gr^Ái² u²v^Ái c|» ngw xqpc< ugi²n|glpk cnetv dgn ng c| ²tvg^Á k²i i {gto mgk. c o gl i c| fcu^Ák p²r gu²i u| c^Ámev^Áu^Áv c h kunq^Áck nqn²i kwo qnev² u o gp^Ánev vx^Ádd^Á c nq^Áp h^Áneuk^Ácp» vj gv²i gng^Á0 C| w^Áddkcm^Án ner euq^Ávdp kuo²v nk^Áglv^Ágw ngf xgn i qpf q^Áv v jqi { gi {gv^Ággi { nqo qn^Á vj gv²i Á^Ámpgm c^Ánk o clf n^Áu dd c r^Ágqo nq w j|c dgeu^Ágv²tg. lcx^Átc² u gk u^Áv²u²tg x^Áij c^Ákm ugo u| cdcf c l³x dgp gm^Ám^Áf^Ápk^Á0

Wi {cpgl gp²x pqxg dgt 320²p c o lpu|vgtgr³4mgn gi {Áw dg/ p|Ávc v²4x²p|lxc^Áuv^Á c Pgo|gk M^Á4o xgn f²uk C^Ácr q^Áx^Áp|t^Án0 C lxc^Áuv c o^Át ²tlpv^Ágw r^Áqit^Áco qv o quv o^Át t²u|rv^Águd^Ágp nk/ fqi q|c0 C M^Átqn{kx^Ái|qp v^Ár^Ánp^Á c m^Á 2u dgr^Á4f k 3u| v3pf q|/ c^Ánek^Áv gdd n^Á n^Áf|cpc hgn h/. n^Á4²r/ 2u u| c^Ánkunq^Áck kv^Ágtp^Áwuqnev. f^Ák^Áne^Áu|v^Áqnev0 Fg v^Áo qi cv^Á dgn ng c wf^Áqo^Áp{qu mwc^Áuv ku0 Vc^Ánp t²i k jcf ki qpf q|»k v^Árcu|v^Árc^Áck c^Árl^Áp o²i ctte ku i qpf q^Áv jqi { wdgtm^Áv|ku/mwc^Á m^Ápk^Áck^Á nqo^Áuv² u v^Áf dgvi /u|cpc^Á/ tkwo qv ku r^Áv^Ág^Áv c| c^Ácr d^Án0 M^ÁÁ⁴p 3u| gi gv cnetv nkj cu^Ápk c n^Á4/ cm^Áo c|qvc^Á 2u c| 3^Áxgp jq^Áf qp c^Ávk i c|f^Ámq^Áf^Ám i {gto gng^Ápk^Án0 C| w^Áddkn^Ávr qpqv²tf go gu ng^Á n^Á4 gr^Áddt nul go Á^Á {tg xpp^ÁÁ^Án0

Oclf r^Ávpk h^Álwm o gm^Átc t²u|v h^Áncv gn M^Ágdgn^Ádgti r^Áq^Áck^Áck tgp^Áf u|gt²dgp c| Á^Á p0 ep²r^Ág^Áu r^Áq^Áck^Áck0 Fg q^Á2tv pgo xq^Áv jcl^Ácp^Á» c|v c r^Ág^Áhtk^Áugdd km^Ákv qu|v^Ápk o^Ákvj c c| u²t²v^Ági gm vj gv²i gk/ d n gi {km p^Áct^Án c o^Áuk^Átc v^Árd^Ág^Ágp Á^Á xg|gv qu|v^Án^Áv r^Ág^Áv^Ágn / xct^Á|uq^Ápk0 Pci {qp h^Ápv^Áq^Ápc^Á v^Átv^Ávc. jqi { m^Ávr^Áq^Áck^Ápm c vj gv²i gm h^Árgo gm^Áf²u²pgm Á^Áv v²p|r^Ági o gi n^Á4p{Á^Ág0 C h^Ágn^Á4g^Ánk Á^Á g^Ágo gm^Ágn c|q^Ádep eucm c o gi tk^Ámv uq^Áqnev cnetv nk^Á2u|Á^Ág^Ápk0 Ctte pgo i qpf q^Áv jqi { c| Á^Ácm c t²i k^Ángv² u c|qm ng^Áu^Áto c|q^Áckv x²i r^Ág^Ág^Ágp h^Ángv^Áq^Án0 D^Á4eug^Á wf^Ávc. jqi { Á^Á kv^Ág^Áki g^Ápe^Áv pgo r^Ág^Áv c d x²u|ner^Ád^Án gn xct^Á|uq^Ápk0 Jc x^Ácrj qn j^Áv kv xcp k^Ác|^Áp u|g/ t^Ág^Á Á^Ám c|q^Ápc^Á c jci {qo^Áp|q^Ánc^Ácm co gn^Ágm uq^Áu|qt eucm pgo|gf²ngm uq^Áp ner^Ál^Ám o gi v^Árd^Ág^Áu²v^Ám^Ángv² u j^Ác^Ágt^Ág^ÁÁ^Ág^Á0 G^Á2tv ku h^Ápv^Áq^Ápc^Á v^Átv^Ávc. jqi { c| 3^Áu|g^Áqo r^Áu ki c|k^Á r^Áf|q^Ácv^Áv c o ci {ct²vg^Á k²i gv. co gm|gn xcn^Á u|q^Árk^Áck^Áu^Áv pgo u|pv o gi j^Áepi q|v^Ápk i {gto gng^Ákp ngt^Ág^Áu^Án ku o gi ugi Á^Ág^Á0 eC u|g^Áng^Áo h^Ági xg|gv v^Átucf cm k qu|v^Án^Ápc^Ám i {qtu u²vo^Á n^Áuc Á^Ácd^Á r^Áq^Áck^Áck^Á m^Ávcu|v^Ál^Áv l^Ág^Áv^Ág^Áppg. co gn^Ápgm g^Ág^Á2v ngm xg^Áplg -i { ²t^Ág^Áv. jqi { c n^Á4 cm^Áo c|qw i {gto gng^Ám p^Ágx^Ár^Áu²pgm o gi n^Á4p{Á²u²xgn g|gn^Ák^ÁÁ^Á o²i dk^Áqp{qu o²t²v^Ánki

ul qek^a rku ki c| u^a i qv ku ul qri^a ncw⁰ G| c| cnek[»]lc ukngt[~]Av ku⁰ C| 3; 470
 pqxgo dgt 320k lexcurv gtgf^{gk} hqto^a 1^a dcp cmqt wi {cp pgo xcn[»]/
 uwj cvqw o gi . fg n^u dd m^{Av} p o gi xcn[»]uwv dgn rg c n⁴ ul qri^a r[»]k
 cmcm c| qwem i {gto gngkpgm vcpw^a p{k 3^u v⁴ pf[»] t[»]n ul [»]n 3; 49<
 ZKK0 ve0 Xqrv qn{cp kf . co knqt² xk 3022.222 ctc{mqtqpc^a mv
 tpgf gmg² utg gttg c e² r^c0

I {cnqt^r v[»]ci cmqt o² i ul kv² p pgo ngt[~]Av m[»]kngtg. fg o kv
 gri qpf qri^u j cmv[»]cpw pci {xqpcⁿ 2^u 2^{tf} gngu c| 3; 470k v⁴ x² p{lcxcu/
 r[»]pcm c hcnuk p² r^g u² i i {gto gngkxgn n^r euqr[»]vu t² u| g0 Mrgdngdgti
 o kpf gp p{lx^a pqu qmcw[»]kv² | gv xg| gv u² i² pgm c| gi {gvgo v n ngl fxg
 c rgi cnu[»] hqm^a kunqⁿ ki . m^{Av} p n⁴ gnu² i² x² n⁴ x^a pvc vppk j qi { gi {/
 Avcn vj gu² i / j cⁿ u| ku rgi {gp0 J c qn{cp i {gto gntg cmfpc^m cnk
 r² r^a u o ci exkug^v p² u ul qti cm^a p hgnⁿ vj gu² i² xgn ku nk^u pln
 gtt n lgrgp^v uv vctv| pcm vppk c o k^u vgtv n m⁴ gr⁴ v ul gtxj gl 0 C o k/
 pl^u vgt m^{Av} p i qpf qunqf km c xcn[»]dcp vj gu² i gupgm[»] 2[»] tng| i {gto gm
 o gi xk^u i^a r^u t[»]n u co gpp{kdgp c| gtgf o² p{ ngf xg| . c P go | gk
 M⁴ o xgn f² uk Crc^r x^a p{ vcp^a euc i qpf qunqf km o gi hrgn 3^u v⁴ pf[»]
 nkswcⁿ t^u t[»]r0 C| kunqr[»]cl[»]lc o gi x^a r^u v^u t^u p^a n gnu uqtdcp c i {gto gm
 j cl^rco c² u vj gu² i g c| k^a p{cf[»]0 f ncnⁿ dcp c| qpdc^p pgo n⁴ x^a p[»]vu.
 j qi { c| 3^u v⁴ pf[»] cu c h⁴ f v n grkqpcu² n0 e^u Av² i gu c| . j qi { o kpf gp
 n⁴ u² i dgp n⁴ v⁴ j^a tqo i c| f ego dgt rgi {gp. cnk o ci cucddhq^m kunqⁿ/
 nev ku n⁴ v⁴ i cuqp= o ci cucddhq^m kunqⁿ v pgo qn{cp² tvrgo dgp.
 j qi { v nku Av² v n grkqplc. jcpgo m[»]Av⁴ p[»]k[»] ul go rqp^u d[»]n
 o ci cucddhq^m kunqⁿ v j qi { c| w^a p qppcp xku^u cv² txg c o ci c hcn^u dc.
 c o ci cucdd o gl i c| f c^u i k m[»]Av^a pcm rgi {gp c vgtlgu v lg0 Vku^u v⁴/
 dcp xqrv c| | cn j qi { c vj gu² i / j cⁿ u^a u c rgi pgj gl gdd hgrf cvqm
 gi {kn⁰ C vx^a ddk pgj² | u² i gngv ku 2^r p^{ng} gn wf[»] v n^r | gpk0 U^a/
 o[»] qw t^a . j qi { c hcnuk vcp[»] m o clf v⁴ o gi² xgn hji^l a m cl^a p^rpk c
 em^{Av} p³ u⁴ vj gu² i gngv. cnkm w[»]dd c rgi lqdd gugvdgp n⁴ 2^r ul gt gm^u
 pgm dk qp{wpcn⁰ C| ku gn hqtf wn vcnⁿ p pgo ku tknⁿ p. j qi { c| ki c| km
 o clf hgrkuo gtgv[»] Av o ctcfpcn⁰ O² i ku o gi n^{ng}pgg rt[»] d^a rpl[#] e^u J c
 v⁴ 2^x crw eucm 47ô 52 ki c^a p pci { vj gu² i gv wf^u wpm o gi o gpv^gpk
 2^u c o ci c v^u r^g u² i² dgp nkglv^gpk pgo vgw[»] pⁿ g cmqt pci { ul qn/
 i^a r[»]qv c pgo | gypgm^a 3; 49/ dgp c n⁴ ul qri^a r[»]k cmcm c| qwem i {gt/
 o gngkpgm vcpw^a p{k 3^u v⁴ pf[»] t[»]n v⁴ ti {cnk c rct^rco gpk dk qw^u i
 p{qo cv² nqcp tgo² ng. j qi { c ugi² n^u | g² u o clf gi {2^d nev⁴ i[»] tkⁿ ntc ku
 nkgtl^g f0 G| c| qpdc^p ô cmqt[#] ô o² i o kpf ki eucm tgo² p{ o ctcf^u 0
 M^u dd vgv cⁿ ngt[~]Av c pgo | gk n⁴ o xgn f² uk crc^r x^a p{t[»]n ul [»]n
 3; 4; < ZZZK0 ve0 ku. c| qpdc^p c| gtgf gk gri qpf qri^u [»]n r⁴ p{gi gugg
 gn^{Av} hqto^a dcp0 C vgtxgl gw vj gu² i / j cⁿ u^a u gmmqt ugo xcn[»]uw/

j cvqw o gi 0 C f 3pv r r 2 ugm o gi v 2 v g r t g eucm l > xcn Mrgdgnudgti
j c n f n w p n g t A j g v g c u q t 0 t 3 m 2 t f g o g o c t c f c | q p d c p . j q i { c
i q p f q r v q v c p p c m k f g l 2 p h r k g v g v 2 u p 2 r u l g t u f h g p k r t > d a n c 0

C | 3 u | v p f A i { g n n e r e u q r v q u f k n u | q e k r k u n r t f 2 u g m n o c l f
o a u 3 u | g h A i 2 u d g p r u | u > 0 G | c m e n q o o c n x k u | c n e p { c t q f x c c
w f q o a p { r q r k n i j q | . c | 3 u | v p f A i c n e k r n i u A n { q u c d d t 2 u | 2 v c w f q /
o a p { q u 3 u | v p f A i c n e v k u o g t v g l A m t 2 u | r v g u g d d g p 0 G | M r g d g n u d g t i
n w w A r q r k n i l p d c p c | g i { k m r g i h p v q u c d d u c n k g i { g l 2 u m q t k j g n | g v /
j g | n r r g u v v e n d u g p A t 2 u | 0 C n k g i { g l 2 u k f g l 2 p g i { / n r v k p n i d d v g u r 2 m i
r u e 2 m 3 u | v p f A i a n v c o o c i { c t w f q o a p { q u w p r > v i u t g p f g m g l 2 u 2 t g 0
M r g d g n u d g t i j c v m c u j a n > c v q v 2 r A v g w n k 3 u | g n e r e u q r v c | 3 u | v p /
f A i { g n c m A r f k o c i { c t k p 2 | g v g m 2 u t j g n | g m t g p f u l g t 2 v 0

G r i q p f q n u a p e m c r r l e c k o 2 i p c i { q p o g u u l g k f d g . H e v e n r i a d c
p { A p e m x k u | c 0 N a w m j q i { o a t h e v e n p u q n e v g m 2 m g f g w c u l g /
r n e k t > n c x g | g v n r | 2 u t n c | g r k v h e r f c v k t > r 0 G i { k m t 2 i k h e r g i { /
| 2 u 2 d g p c o q j a e u k e u c v n r k g m g l o 2 p { g k t n v p f x g c r g i x 2 i | g v g u g d d
w > d e l p e m c o c i { c t x k u | q p { q m 3 u | g l u w i q t q f a u v v e n n c 0 C n e k u p { g u
x k u | q p { q m c | w p o c e p c i { x A | d g p p c i { j c n n k u x A | d g p n k u j c d
v 4 x 2 p { u l g t u 2 i g c r r l a p o p g o v g v 2 m r g j g v x 2 p c i { q d d h q t o a w o A
x g l g v m n k d q p v c n u | a u v 0 C u l 2 v h q t i a e u q n f q w q t u l a i c r t > d d t 2 u | g d g p
c r g i l q d d v j g w 2 i g n p g m p g o c n e f v o g i h e r g n 2 t x 2 p { g u A r u k v e t A r g 0
D a v j q t { K u x a p r r 0 N g p i { g n u t u l a i d e p n g t g u o c i a p e m o n r 4 2 u k
v g t t 2 p w o q 0 C u l 2 w r g w j c l a d e p p g o h e l n f j g v g m n k p c i { q d d
j c f x g l 2 t g m 2 u a m c o x g l g v n 0 C J c d u d w i q m w f x c t a d e p r g f k i o c i c /
u c d d x g l g v j g n | k i c | o c i { c t u l a o a t c t k n i p c n e f v 0 O a t r g f k i c
p 2 r g m u l a o a t c g t g l A m g i { k m r g i h d d v p { g l l g a m c o l f t h e n d e p .
x g l g v n d g p x c n > i c | f c i u i w n #

W i { c p e u c m 2 r v d g x a i > c p h p v q u c | k u j q i { c v j g w 2 i g m n k /
x a r u l v u c t g p f d g p r g i { g p 0 e C p g o | g v g m g t g l 2 p g m c r r e m u l a o q p n r k A n
g i { k m j c v m c u v p { g l l g c p g o | g v v t u c f e m k n k x a r u l w n r g u a i g 0
D a t c t 2 i k O c i { c t q t u l a i q p o o l p v o a u w w k u o u q m l q i k c n e f a n f
v q t p { q u w w c v t u c f e m k n k x a r u l v u c d c f 2 t x 2 p { g u A r u g g r f . c | 2 t v
c | k i c | k p c i { v j g w 2 i g m o l p v c J w p { c f k e u c r i f r 2 r f a l c o w e v l c .
o 2 i x k f i k v 2 t g p k u w f v c m 2 t x 2 p { g u A p l 0 C | g i { j a | p e m r g f k i c | x q r v
c r g i h d d g t g l g . j q i { c v j g w 2 i g m n k x a r u l v u p a n p g o x q r v n r p { v g r p
o c i a v o g u v t u 2 i g u n u t r i v q m n r 4 2 u l q t A c p k < c | w p r > v i u k v e t A r g v
o l p f k i c | g i 2 u l p 2 r x q n 0 C o q j a e u k x 2 u l n u t c c | q p d e p c l g n g m u l g t k p v
c | c f f k i x k u | q p { r e i q u e p l > n o n r 4 u l t u l g t n g l g v g v g r t q p v q w c .
r g i c n d d k u u g o n r 4 x g v g p A n c x g u l 2 n | g n w . u g o w p p c p g o v e n n p m
j c f x g l 2 t v x c i { a m c o l f t h k A v . c n k c j g n | g v o c i c u r v p a n v x q p c 0

Pci { i {gpi gu²i lgrg gl# U o kpf gj jgl l^atwv c xci {qp gi²u u²i vgrgp
o gi qu l r^uc ô vto²u l gvgugp c| cmnqtk xku qp {qñj q| n^rrgu0 O^at/
rgfki ëc pgo |gk xci {qp o gi qu l r^uf pcm ct^ap {vcrpuf ic ô c v^t/
ucfcm k nk^arcu l v^tutc xcn» jcv^au»n gi²u l gp gngnkpwg ô 3^oci^adcp
ku c pgo |gvmi {gpi gu²i²pgmgi {knv²p {gl lgo

Vqx^addk v⁴v²pgvk vpw^ap {ck hgn {Ängo n vrcu l vrcvck²tgw
l²thnqt^atc vrgugp nkhto^am^am u l go r^urgv²v0 C|v xcmqvc. jqi { c|
gi {gu pgo |gv^m mwm^alc. cn^t nleul {gm rgi {gpgm cn^t pci {qm
x²i gtgf o²p {dgp j^atqo /p²i {gl gt go dgt x^am²p p {wi u l kn0 Gppgm c
u l gngok xgl gv t²vgi pgm u l {pxqpcrc jcv^tq| c o gi c| knv pgo |gk
mwm^alc hcluÄn^av0 5D xgl gv m f³pvkm gn c u l »dcphtq|» pgo |gv jgn²v
c p²rgm v^ttucl^ai^adcp< v n^m hÄi. jqi { c wfqo^ap { kqfcmo .
o x²u l gv ngtgungf ergo. hÄf o {kgr²u. kct. nÄ ngng²u jqi {cp o /
nÄ kn0 Uqtuwpm vgi^av c| qp hqtfn o gi. rgu l go kpf gp u^ao qvwx
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o²u l gvgugp pgo u l cdcf eucm c lgrp^tg i qpf qrpwpm jcpgo u^ao qrpwpm
ngmcl gnÄvngl gpf²xv²gf gmu Äm²i rvgkxgnk0

C vgtxu l gt . e²rtcxgl gv gn^at^au u l cd^an {ckv gl cmerno o cn ku.
o kpv o kpf gp gugvdp. c v⁴v²pgmk hln f²ud n nk^aplc grqppk0
V³v²pgm Äpm r g f k i l²rtg²tj gvgvgp xk^ai qu^ai i cn c|v vcp²lc. jqi {
o gi ngm o ctf pwpm o ci {ctqncm ugo ok ugtgf gkv. co k²t²vngu.
pgo u l cdcf xgu l pk jci {pwpm fg²rrÄi { vpwppm ngm c nÄÄf v n
ku. jku l gp pci {qp uqm gugvdp²rrgp c nÄÄf³p u l gt| gw vrcu l /
vrcvqm ugi {gw²m hgu l {ptg c r²ngm rgi o²n {gdd t²vgi gkd n ku c|
o ci {ct ucl^aw²i qncv0 O²i pci { pgo |gv^m ugo gpi gf jvkm o gi o ci w²
pcm jqi { uqxkpk o wud»n xci { c ucl^av u l gngok²t²vngkm vÄngeuÄr²u²/
d n c nÄÄf v n gn^atm| cpcn0 Mku pgo |gvntg r g f k i gi {gpgugp x²i /
|gvgu rppg c| gnu l ki vgn f²u0 C jgn {gu {v²rgv gl³u l gju qp r²u²tc xcp
u l Äm²i0 ÄU Äm²i Äpm xcp p {wi cvk r²n^antc. ko r w²uqntc. 3^ul v⁴p/
|²ugntg. ngtu l gng²u k^ap {qm^ax²vgr²tg. jqi { jgn {gu k^ap {dcp²u
i {qtucdd Ägo dgp jcmf jcuwpn0 G| c ëp {wi cvqu^ai i 3⁴m v⁴gnx²ug
c v⁴v²pgngo pci { o ci {ctlckpcn0 Kk {gp²tvrigo dgp U gpv Kuv^ap xqn c|
gu p {wi cvqu0 C| ki c|. jqi { gngp²ng ku xqn. c Mgr^ap {qm cnkngv
rg nngw xgtpk0 C pci { o ci {ctqm c| qdpdc vx^addte ku U gpv Kuv^ap
Äl^ap l^atvnc Pci { Nclqu. O^av^au nk^an. U²ejgp {k GÄxÄu.
Vtghqt00 C rtdr²o c ng| f gw n hqi xc pgo ku c| xqn jqi { gl gp
c| Äqp l^atlwng. jcpgo kn²dd eucm c|. o kn {gp qnqu ct^ap {dcp
ngxgtlÄm c| ugtgf gkv c nkÄrt n gncpwrcf0 G o ci cvct²uwpm gtgf/
o²p {g xqn jqi { Gw²r c o kpf gp hqvqucdd u l gngok^atc o r²v^av^a

xgwÄm dghqi cf wnm hgrf qri q| wn0

U co k 2tx2p{gu xqiv c o Àndcp. o2i kpnfdd 2tx2p{gu c vlcqpqk
 nqtu|cndcp0 C rgi xgu|gfgrò gugdd 3p^ao 1^vuv lgrgpv². j c hglÀpndg
 xgpp2pm jqi { 2rrgp o quv rgi {gpi Àngp. gnu|gi2p{gfgxg o clf nfrg/
 ugm rgu Àpm 3po ci v²ndc |^atm|xc ku nkgtò grk o kpf c|qncv c mwwÀ/
 2t²vngngv. co gn(gm p2m^Àn cñt c rgi u|gt2p{gdd o qf gtp pgo|gv u|gn/
 rgo k 2rg²pgm ngtgvgk ugo rjgvg nk3⁴ngp0 Fg vñp o2i xgu|gfgr/
 o gugdd euc²f^aut^c xg|gvg c eucm korqt^viv mwwÀ^atc xcn² jci {cv
 nu|^au< c| kn(gpd n èo ci {ct ì mwwÀ^c uqj cugo rppp# C ngw v vgj^av ô
 g| c| cñc 2u »o gi c ô èqncupì xgi {1^gpk ngn0 èGi { pgo g g| c mwwÀ/
 rqrk^knek xgi {2u|gkpm co gn(pgm |2ug n3⁴dgp c j c|ck 2u m^Àñ²4f k
 o xgn²i k grgo gngv gi2u|t²i gu ct^ap{dcp ngm xgi {1^ggpÀpn0 G èxgi {2/
 u|gv t2x2p ô c nkhlg|2u pci {qp vgu km pgnk v⁴du|3⁴ xku|cl^at
 ekmgldgp. dgu|2fgkdp ô cnet qn{cp pgo|gf2ngv u cddcp qn{cp
 kp^vni gpe^kv p^xgrk èo gn{ c j c|^av 2rrgp cpp{k c u|gtgk o kp v c
 t²i k fg co gn(pgm n³4g u|2rgugdd 2u u|cmw^fuc pci {qddi0 Mrgdgn/
 dgti o ci {ct 2rgv²tf2upgm vctvc. jqi { xg|gv go dgtgpm c| c dk q/
 p{qu j^atqo/p2i {g|gt nlo xgnv go dgth. m^Àñ²4f gv l^atlq. p{grxgngv
 ô l²ñ² ô dgu|2rgp. m^Àñ² 3⁴u|gn3⁴vg²ugmgn tgpfgmg|2n0 Cwⁿ
 gi {^ancñp pgo l²n jqi { c m^Àñ²4f k vrcu|vrcvqm o clf gñf gi gp¹km
 ngv c i {3⁴t f j c|^awⁿ0 C v⁴v²pggo u|gtkpw 2rrgp c| gngpnl /
 l²v vcp¹lc< c| k|» o ci {ct j c|ch^ui qv gi {gpugp c m^Àñ²4f k ner/
 euqr^vqm grxgp²i g u|qmc c rgi o ci cucdd j hqntc go gp0 èU²ej gp{k
 m^Àñ²4f k Àlcp x^aiv k|» o ci {ct^a 2u tghqto gtt²0 C u|cdcf²i j cte
 w³pk kf m go k^apuck j q|v m j c|c c|v c| gw²rck u|gngo gv. co gn{ c
 jcx²pcu 2xngv 2u c jg^xgpgu 2xgm gnu hgr²v p^awpm qn{cp pci i {^a
 vgw0 Vtghqv^a mcp^f» u|gngo k ner euqr^vqnev vctqw hpp c m^Àñ²4f/
 fgn0 Vku c K^wa p p²o gv gi {gvo gngv n²vi cvw 2u Xlevqtk nqt^apcm
 cpi qn rqrk^knek mwwÀ^alc xqiv^a mco l²tk^k vpw^ap{clp^m c²r l c0
 | u k|» o ci {ct go dgtgm xqncm o kpf cpp{kcp0 lrrgp cddcp vñ²lc
 hclwpm pci {u|gt u²i²v jqi { kf gi gp x²t 2u kf gi gp mww^a rku dgtqn^au
 gngp²tg 3po ci^av pgo jqi { grxgu|vgw xqpc. jcpgo o2i kpnfdd
 o gi vñ²nc0 Gppgm c| gt pnpgm n³4|3⁴pj g¹Àm jqi { o2i 2n^Àpn#
 Vgi^a< èu^Àqu d pv n³4gvg gn c| c mwwu|oklu|vt. cnk nk²er/
 euqr^a pgo|g²pgm o xgn f²v² c pci { gw²rck mwwÀ^am n³4³u²/
 i²d n0

O gu|gddp² | m^Àñ² rqrk^knek u|go rqp^vqm ku c|v lcxqu^vm jqi { c
 xk²i qp o kpf gph². rgi cñ²dd ku c lgrgpv u jgn(gngp. o xgn f²uk tu|g/
 o gkpm rgi {gpⁿ0 Mrgdgn dgti c| À² u|v²p¹lcuqm vgj gw²i gu tqj co/
 euc²v²pcm u^apv c|v c u|gtgrgv jqi { c t²i k qu|v^am 2u c l²ku nk/
 gpvgpv rtqr ci c²f^awⁿ c j c|^apm n³4² xqpv n³4 h²i i³4{v u|2²qu|cu^am

j qi { c o ci {ctu^ai pcm o kpf gphgr[?] dct^avqnev u|gtg|pgpn⁰ W»rci ku o gi /
^amer[¶]lc. j qi { c t²ik qu|v^am rqi^atk²u nevpck d^Äqm^aelc o gi f³4d/
 dgpv n³4gng|gvgu²i i gn ki {gng|gw dgpp^Ängv c| gi {u²i gu o qpctej kc
 ngr ng cr[?] l>n gr[?]wi pk rgi cr[?]dd ku^a mco k r[?]v^Ängv j qo^an[?](dc dwtm^Äpk⁰
 Gpp²n vcr[?]p eucm c| c vqt|nr[?] xqrv^atem[?] cucdd. co gn[?]gv t>wpm
 ep²ru[?]gt u[?]gvgm⁰ C m^Än³4f gr[?] xgv[?]gw²m c v^Ägu r wu[?]v/hv[?] ecnk
 n[?]gv rgi n[?]xgugv fqi[?]q| km cf>v h[?]gvk pgo cnet. rcr tkn[?]u²vngngv
 gu|km xcf[?] v[?]peqnev l^at. o kn³4 dgp u|kclwn m[?]tlqpi cv²u nqo kmu gr/
 xcmw[?]u^a dcp o ci^av²u hcl^av o kpf gp dgu lqi quw[?]u^a i p²m^Än pci {tc
 vclci⁰ G| c rtqrci c[?]pf c pgo ku xqrv xcrco k xgu²n[?]vngp u ccr[?]l^a/
 dcp x²xg o guu|gdd p²| e²nqnev v|³4v o ci c gr[?]0 C|v cnetv xcr[?]/
 u|[?]p u[?]gpk j qi { o k M^Ä2^r/Gw>r^adc eucm dgvrcn[?]qf wpm kv u²r
 fctcd h[?]4f gv rgh[?]i rcmwpm g|gn u|go dgp. o kpv cnd>ddtgp[?]. ugr[?]l[?]gv
 p²r. ugo o k²t[?]v[?]ngv c| go dgtk²i pgm pgo wf wpm p{Ävcpl⁰ O kpf gp/
 n[?]rr gp lqi quw[?] v[?]i^av. j qi { o gi tgp[?]u|cd^an[?]q| cpcm dgpp^Ängv⁰ G|
 c i qpqu rtqrci c[?]pf c pgo² tj gvgw xqrc gn ukgtv j c c rqr[?]kn[?]dcp.
 r wdr[?]leku|v[?]n[?]dcp²u c u|gng[?]o k²ngv gi {²d hqpvu vt[?]Äv[?]gk[?] pci {qdd
 u^ao o cn rvgm xqrc n^Än³4f k nreuc[?]rvqm[?]en tgp[?]gmg| go dgtg[?]km
 c j qi {cp xqncm c| gn| u^a|cf qndcp. co kn[?]qt Dqni pc. Rcf qxc.
 Y kwgpdgti. J cmg²u R^atk[?]u gi {gvg[?]gk[?] pci {qdd u^ao o cn tcl[?]qwem
 c o ci {ct f[?]k[?]nq[?]n⁰ Vcr[?]p o²i Vtckpp ku o^aun[?]pv Ä[?]4v xqrc nk j c
 g pgo gu j ci {qo^ap{qm gt vgr[?]gugp vx^add² rpn[?]# C| ki c|. j qi { xqrv
 gi {p²j^ap{ xk[?]i o^atn[?]pn[?] xqrv Nku[?]v[?]pm O wpr[?]eu|pm L>nck[?]pm
 Crrqp{kn⁰ èFg gi {gu nko ci cun> go dgtgm gt hgu[?]¶[?]ug pgo gr[?]i <
^ancp>cp u^a|cncm nngw xqrc fqi[?]q|pk[?]q[?] U o quv Mrgdgudgti
 Äpcm dqu[?]lc c u^a|cnev j qi { o clf dgn n^Äm ngt^Än³4p nk c| c dk[?]q/
 p{qu j^atqo/p²i {g|gt. c xk[?]i qv l^atv xgl[?]gv m cnkm nreuc[?]rvqnev n³4
[?]4vgm²u vctvpcm hpp. cnkm xk[?]i³4u gh^Äi²ugngv²ngm^av u c o ci {ct
 uqtuv o clf g|gndg dg wfl^am^a n[?]¶cpl⁰ M[?]v²i vngp^Än o kpf gl r²p|dg.
 pci { cp{ci k^a r[?]q|cvc ngt^Än⁰ Fg o gi²tk[?] èC[?]ri xcp r gpi . co gn[?]gv
 gn p{³4gddgp j cu[?]p^arp^apm hgn o kpv c|qnev c r gpi ngv co gn[?]gngv l>n
 o gi x^aru|qv n^Än³4f k³4u|[?]v[?]pf[?]¶cuck[?]pn[?]cm cf wpr[?] Pgo ku v[?]gv^Äpm
 o^auv. j c c|v c nww^aru n[?]¶ck hcrv. co gn[?]o kngv c n[?]gi {g²uk nqt/
 u|cm wqum>²xk[?]gf gkdg[?] c o ci wpm j k[?]i l^ad>n fg gngp[?]i gk[?]pm u[?]¶>u
 Rtqrci c[?]pf c/o wpr[?]l^apcm gtgf o²p{gn[?]pv ku n³4Äxgw^av cnetlwm
[?]4pk⁰ Rgf ki g|v^av ngm[?] v[?]4p^Äpm u j q|^a o²i n[?]gv rgi[?] v[?]4d rqpvp
 gi {u|gtg[?]#

J cpi u^Än[?]q|pgo ngm ô c| ki c u^ai u|qi^arev gttg n³4gr[?] ô c
 è[?]v[?]4d rqp[?]v[?]0 Mrgdgudgti³4u|[?]v[?]pf[?]¶cuck[?]nev c| gi²u| o xgv xk[?]i/
 i qp cnetv u²u|>tpk j qi { gmg[?]Äng c| gi {qr[?]cn^Äu^ai q[?]0 G vng[?]pk/

vgvdgp ugo o k²ng p{qo^aupcm pgo xqnv jclncpf» gpi gfpk0 P{¶ncp
 j cpi q|vcw. jqi { c mww^Àc vt^Àngv²p o kpf gp p{qo^au²rrgp c|
 gmgpng| l²v gtgf o²p{gljgk o kpv co kv gn cnetv²tpk co gpp{kdgp
 gi {gpgup o gi o²ti gljgk c n²i n²4v0 Xkfi qucp²u 3/4n²tx²p{ gp
 o gi^aner ¶qwc. jqi { eucm qn{cp pgo |gwgn n²gv |cxctvncp mww^aru
 3/4u| gn²ngv²uv vtgo vpk²u hppvctvck co gn{kn gddg c u|gpv ner/
 euqrvc pgo n²xgt dgrg ègi qku v²mwu o qo gpwo qnè0 G|v c|²tv
 n²gm j cpi u^Àq|pwpm o gtv pgo gi {u|gt o gi x^afqn²m jqi { mww^À/
 rqrknlc gi {qf cn^Àcp p²o gv k^ap{À0 M²w²i vgrp. jqi { Mrgdgn²gti
 c n²i pci {qddtc²tv²ngng c|qnev c vpw²i qnev 3/4| v²p|²ugngv. co g/
 n²gngv c pci { u|qo u²f p²rv n ner qv0 Dct^avk ner euqrvc k²u gn ugi ¶
 vgw²m c mww^Àrqrknc 3/4u| gn²ngv²u gm²n{^Àu²v0 Oci c jkf gw.
 jqi { c p²o gv wf qo^ap{qu^ai c xgu vgw j^adqt^À w^ap ku r>vqj cvv
 nc p u|gtgrgv v²4v dg u²tv²ngu vpw²i qnev p{^Àv0 Fg v^axqn^amv v rg.
 jqi { glgp c v²tg p²o gv o qpqr»n²wo tc i qpf qdq0 f n²ncp gmgp
 xqnv o kpf gp mww^aru gi {qf cn^Ài pcn0 èGi { nku p²r pgo |gk²u
 u|gn²o k³p^am²u^ai^atc o k ugo xgu gfgm guggd. o k²vj c gi {gv² n^À/
 l²4f k mww^Àc gi {qf cn^À vcm c c²n² n²gdv0 N^awm o k²gp pci {tc
 dgeu^Àng r²0 c| cpi qn²u^a p²rgngv Pci {/Dtkepp²v²u c| Co gknc
 Gi {gu^Àv f n²o qnev0 Pci {tgdgeu^Àu²pgm gi {kn n²vjcw lgrg xqm.
 jqi { c| cpi qp{gk o ci {ct n²4²rkn²v qn² uqm lf tcf q|^au. vt/
 xgl i g²u w^ap x²i^Àn ku U^atqurcvncp vgv c² jqi |vc. gl|gn ku hq²vck
 cnetx^ap c Rgt²p{lgm²u T^am²e|kcm n²q^apcm pci { jci {qo^ap{ckv c
 p{wi ckw^au²uc v ui {3/4ngtgu o ci {ct i qpf qm²u^ar^atu²u^a0

M^Àz²p n²4p{xgv²tfgo gr²p²pgm Mrgdgn²gti lf tcf q|^auck c m^À/
 l²4f fgn xcn» mww^aru 3/4u| gn²ngv²ugm vt^Àngv²p0 O k²ku vt²ig x²i²tg
 qn{cp j^an²cvv cncn²q²w nk o gn{jgl h²jicwv c|gn w gn ugo n²r|gn/
 jgw^Àn0 U²¶k²u^ai c. jcln²q²u^ai c. 3/4ngv²ig glgp c v²tg xcn²/
 u^ai c n euq^av o xgn0 C o ci {ct 3/4| v²pf ¶cm o gngw ukng^Àv c| gi {gu
 m^Àz²4f k^amco qm»n ku o ci {ct tgp f gngv²u. xci { gugv²i eugt²4| v²p/
 f ¶cnev u|gtglpk u v glgm u^ao^av n²4dgp u|crqt ¶cpl0 G|gngv ku hgn/
 jcul^anc c xcn»dcp k²o rqp^an² u|gtxglgv n²r ¶²u²p²0 C M^Àz²4f k ner/
 euqrvc gi {gu cnetv²u|gk gi {^anc²p pgo xqncm vpk²to k^anc. o^at
 eucm c|²tv ugo. o gtv pgo n²gv gm c n²r ¶gw²i c|qpqu h²n²p0 C n²i/
 hlgv²dd ¶f wuv lgrp²gv²m c d²euk dgtr²pk t»o ck jcv²cu k²v|gvn0
 G|gm o gngw o n²4vgm u|gtvg c| gi²u xk²i qp c n²ugdd^an²qo^auqm
 o kpf o gi cpp{k o ci {ct è tu|go i0 C| gi²u qti cpl^aek²v d³4eugp nk/
 h²to^anc²rcr g²gm²a p{ ¶q²n0

C n²i h dd g²x xqnv o kpf gp tgp² 2u tcpi À m^Àz²4f k o ci {ct k²v|/
 o²p{. tu|go. 3/4| v²pf ¶cu u^ao^atc< h²rgppk c n²re uqrvcv c| kngv

qtu^ai wfqo^ap{qu n⁴gkxgr⁰ Oci^a»n²tv^gf³4w. jqi { c | g t²xgp
 nerqw ko r w¹ wuqnev o gi hgrgn o »fqp vx^add¹cpkwm ngn^gw j | c | c/
 hgr⁰ C xglgv m hgrcfvc xqnx jqi { c m⁴h³4f tg lwqw h¹vcn o ci { ct
 wf »uqnev o wpi¹lwndcp ugi ¹u²m²u k^ap{¹u²n⁰ Mrgdnudgti c |²tv
 vtvqwc h¹p¹vqpc^m jqi { r¹gv r¹gi l »n h¹nu¹gt¹gm n³p{x¹ttcn gr¹qv
 n³4 rqp¹qm h¹to^a »f lcp¹cm nk o gtv c | k¹gp¹gm n tgo²ij¹gwg c |^ancp/
 f »dd ³4u¹gn³4g²v²ugm n¹cn¹u¹v¹ ^ancn¹dcp c | g¹tf¹o²p{gugdd o w/
 n¹v⁰ M¹k^ap¹vqpc^m vtvqwc. jqi { m⁴h³4f k k¹v²|gv¹g¹km r¹gv r¹gi h¹q¹»/
 k¹cvqnev. ³4^am » o wpi¹nev rwd¹kn¹lcp¹cm u jqi { gl¹gm dgr¹ngt¹h¹g¹gm
 c pci { m⁴h³4f k n³p{x¹tcndc² u d¹kn¹qi t^a h¹k^andc⁰ Fg j¹cp¹u¹h¹q¹v.
 jqi { ³4u¹ ¹v¹p¹f¹cl¹ck¹pm »n eucm wfqo^ap{qu o wpi¹v u | cdcf n¹k^appk=
 n³4 xgv¹gp r¹q¹kn¹ck xci { i | c | f¹cu¹ik u | q¹n¹a¹ncv¹ntc ngv k¹i²p{dg xgp¹k
 ugo o k¹r¹rr¹gp pgo r¹ppg c¹a¹p¹cv¹qu⁰ C wfqo^ap{ c | c o k¹gp i { cp¹A
 »n o gp¹vu vt¹Angv co gn¹gp d¹ct^av²u gn¹pu²i c n³4 ³4u o wpi¹dcp v¹rf¹n¹
 n¹q¹j¹cv¹cm u j¹c c wfqo^ap{qu o wpi¹v l »n x²i | g¹v¹m g¹|gn n³4 xgv¹g
 r¹q¹kn¹ck¹ci ku tgp¹f¹n¹k¹Ark u | q¹n¹a¹ncv¹v¹g¹w¹pm pgo | g¹v¹pp¹gm o gtv
 p³4gn¹h¹q¹ c |^apm¹w¹w¹a¹ru u¹h¹q¹v⁰

C r¹gi pci { qdd tgo²p{v c pci { n¹q¹n¹i¹kw¹qm o n³4²u²j¹g¹ | h | v¹g⁰
 G¹gm xq¹nc¹m m¹w¹h¹f¹k¹rqo^aelck vx²ng¹p{u²i²pgm i »er¹q¹pv¹ck⁰ Go n¹h¹/
 v¹g¹w¹Am jqi { c | gn¹ o ci { ct wfqo^ap{qu k¹v²|gv¹gv o^at 3; 390 lcp¹w¹t/
 l¹dcp u | g¹x¹g¹v¹g M¹pp¹vc¹p¹r¹qn¹dcp. o²i o k¹v¹ n³4 q¹mc¹v¹u¹h¹ { k^anc¹o /
 v¹kn¹t⁰ C | k¹v²|gv^anc¹o k k¹v²|o²p{ xq¹n⁰ E²r¹wn v | g¹v¹w¹ nk jqi { c |
 gi { g¹v¹o gu ¹v¹4²v¹pg¹o o gn h r¹gi c d¹k^apek¹o ci { ct²u ¹v¹4³4u¹o ci { ct
²tk¹pv¹g¹l²ugm m¹w¹v¹u¹x¹cn m¹cu¹kn¹ ²u ngt¹g¹v¹p{ cte¹j¹cg¹q¹ki k¹x¹cn
 D¹k^ape²u c | k¹u¹r¹o o x²u | g¹v²pgm ¹v¹4²v¹pg¹v²x¹gn x²i¹h¹ c n¹gn¹g¹k¹ gm /
 uqt¹dcp c ¹v¹4³4u¹o ci { ct ³4u¹ g¹cu¹q¹pr¹h¹» p{gr¹x²u | g¹v¹gn h¹q¹i¹nc¹mu¹» u | c¹n¹
 wf »uq¹nc¹m m¹w¹v¹u¹ckn j¹gn¹u | ¹pk h¹q¹n¹v¹u¹tc o »f¹qv cf¹l¹q¹. g¹|gn c |
 go n¹h¹g¹w wfqo^ap{u | c¹nu¹m j¹cv¹cv¹u¹edd h¹l¹nu¹v¹u¹v¹ k¹v²|o²p{gug¹p
 d¹k¹qv¹h¹uc u gi { u | g¹tu¹o k¹f c | c | ck wfqo^ap{qu¹i¹pc¹m c ¹v¹4³4m u | gn¹g¹k
²rg¹w¹gn x¹cn » n¹rc¹eu¹q¹nc¹v¹gt u¹h¹ug¹ C | k¹v²|gv c | qp¹dcp eucm 3; 3: 0 u | gr/
 h¹o dgt j¹cx^aki. c n¹cv¹pk¹ ³4u¹ g¹q¹o r¹u¹ki h¹q¹n¹v¹cy¹cwc o n³4²u²v⁰ C¹mq¹t
 h¹nu¹u¹nc¹w¹m u n³4p{x¹t^av¹ gn dd gi { n¹q¹nu¹qt¹ tk¹g¹v²tg d¹h¹v¹m o cl¹f
 n¹u¹dd c n¹pp¹vc¹p¹r¹qn¹k P²o gv Cte¹j¹cg¹q¹ki k¹v²|gv¹d¹g u¹a¹n¹h¹/
 v¹q¹v¹m^av⁰ Mrgdnudgti ¹v¹4¹d¹ ¹h¹dgp v¹g¹td¹g x¹gwg c pci { n¹g¹f¹g¹k¹ r¹gp/
 f¹Ang¹v¹gn u¹l²r uk¹ngt o wpi¹v x²i | gw k¹v²|o²p{ ¹h¹l²2¹nu¹v¹u¹v¹ fg
 g¹ttg pgo ngt¹h¹nu¹qt⁰

C m⁴h³4f k k¹v²|gv¹gm pci { qddct^ap{¹h¹ vx^addh¹l¹nu¹v¹u¹v¹ c m⁴h³4/
 h³4f k ³4u¹ ¹v¹p¹f¹h¹cm r¹g¹u¹f¹v¹ug v¹gwg r¹gv x²0 C n¹h¹t²uv Mrgdnudgti ¹v¹4/
 x²pp{gn tgp¹f¹g¹v⁰ C l¹cx¹ur¹qv c m⁴h³4f k o ci { ct k¹v²|gv¹nt n²u c
 o ci cu o x¹gn¹i e²r¹v¹ u | q¹n¹a¹ » ³4u¹ ¹v¹p¹f¹h¹cnt »n 3; 480 o^alwu 330²p

p{Ávqwc dg0 Vgtxgk c|qpdcp o^at gn|rgi pci{t²u|v nkrnwnn0
3;470 pqxgo dgt jcx^adcp c rctno gpvdgp rñ0 ctt>n dgu²n jqi{ D²eu/
dgp 322. Dgtrkpdgp 97. R^atktudcp 82. T>o^adcp 37. Cpi r^adcp 52.
gi{²d jgn{gnp o²i 42 ¾u|v²pf²cu|v u|gtgvgp vx^addn²r g|vypk0 C u^a/
o qm n²u dd rgtu|g o^aun²pv crnwnn0 U^ancri²dcp uqm o kpf gp o^au/
n²pvcrnwnn o kpvgn tg i qpf qpkrgj gvgw0

C v²4x²p{lcxcurev kpf qnqñ²u^adcp t^ao wev o k²tv vctlc cpp{k²c
hqvqupcm c| Á0 p0 n²|k²u|v²pf²cm jgn{gw kpn²dd c o gi u|gtxgl gw
kp²|gvdgp xcn> gnj gn{g²uv qw cj qn g| gi{^ancri²p rgj gv²i gu0 ěC vgtx/
u|gt o x²u|gk² u w²f qo^ap{r qrkñ²xcn d²u>»^amco qm t²i v n hqi xc
u|Ám²i²v² tgl²v²m cppcm jqi{ m²ñ²4ftg m²ñ²4v ¾u|v²pf²cu|v c|
kf gi gpdgp u|cm|gt k^ap{²u² gn²p t| hñ²4{gnv crw^a mlcpn0
C| ¾u|v²pf²cu|v pci{qdd t²u|g² r r gp c| kñ²4t²pcm cddep c u|cñ/
dcp o gi{ m²ñ²4ftg. co kf p c pci{x^atquqm n²|²t²u²xgn u|go dgp
m²ñ²4p²4gp hqi²nup{ c r²ngm u² { vj gv²i gu. fg i{gpi²dd lmg0
kñ²4cm pgo gi{u|gt xqpcvcm gn vcpw^ap{ckm>ñ0 Fg v²n c| gn²p t|
hñ²4{gnv² tgpfn²k²ñ hqvq. jqi{ c| kf gi gpdg nko gp ¾u|v²pf²cu|v
pg^a mlq² gnj ci{qvcp² u v^aep^aevcrpwn jcpgo rgj{gp qw c o ci{ct
kp²|gv gn²4^at>u^ai^apcm u|go²n²dgp qñ{cp k²thk² cñk c| kngv qtu^ai
h kñ²4ck tgpfu|gt²v kuo gtk nk w²lc lgn²4pk c|qnev c rgj n²k^an>dd v^a/
tqnev. nkm c| gi{gu u|cno^a mlcp tgpfgm²utg^a mpcm² u u|go²n²gu
¾u|v²gn²4v²ugm t²x²p dg ku w²lc cl^aprcpk c| ¾u|v²pf²cu|v c| gi{gu
u|go kp^atkwo qndc. rcdtqv<tkwo qndc. m²kñ²ntc. n²ip{x^vtcndc. rgx²/
v²tcndc. o Á gwo qndc ud0 U|Ám²i xcp vx^add^a j^a|k n²ip{x^vttc.
jqn c| kñ²4 o gi vñ²lc o kpf c|qp ugi²f n²ip{xgngv^au>v²tcnev. rgzkñ/
pqnev. n²|kñ²4{xgngv< o gn{gnv o kpf gp gi{gu ¾u|v²pf²cu|v o ci^axcn
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dgp xcn> ukngtgu hñ²4v²u^aj q| u|Ám²i g xcp0

Mgdgndgti uqnev vcpw^a c p²o gvm htcpk²m cpi qñm ud0 m²ñ²/
k²4k kp²|gvkpgm u|gtxgl gv² u|cd^an{cvckd>n fg c²tv c o ci{ct kp²/
|gvm o n²4²u²pgm crcr gñk² o²i ku gnu uqtdcp c o ci{ct u|Ám²i/
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o ci{ct kp²|gvm gi{ u|gtxgl gvdgp wcl²f qpn²r r gp n²v kp²|o²p{v
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o qf gtp p{gnk u|cnqu v^ap^atgn²ngñd n ngt²v²xqpc nk fg o gngw²m
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O kpv o^at go n²4vgo. j^atqo kñ²gp pci{ m²ñ²4k kp²|gv r²vñ²u²g
h|fkm Mgdgndgti pgx²j g|< Dgtrk. D²eu. T>o c0 O kpf j^atqo kp²|/

o²p{ xcrco kn{gp hqto^adcp o^at Mrgdgnudgti o kplu|vgtu²i g gn w
o n³4³4x0

C dgtrkpk kp^v|gv ng|fvgvk o²i 3;38/tc p{Årpcm xkuu|c. co knqt
c| qwcpk gi {gvo tg I tci i gt T»dgtv^v c o ci {ct p{grx²u ktqfcmo
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u|gtxgl k vcpu|²ng o gmw c o ci {ct u|go kp^atkwo qv. co gn{d n pgo
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nk0 C n³4{^vt²u o n³4²ug qn{ jvcw cu ct^ap{qmdcp hgn f³4w. jqi {
c| gi {gvo o^at 3;42/dcp m³4² 2^rÅrgv u|gt|gw u|^ao^atc0 W{cp/
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C| ^v/ gn n²u|^vgw vncqp c rncmw nk c|w³p c dgtrkpk Eqmgi kwo 0
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gn²r|ng. o^at pgo²tg o gi < 3;49/dgp hcvncp o gi jcn0 C o ci {ct
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tu²i hgnu|nv²v u² { c i {³4³4 vgu trcmqe gtgf gk tgpf gm²ug
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 r gfk i xcn²u²i i cn kpi {gp lwqw0 Hngmgu²v²m c| ²r Årgv gl h| f
²v⁴v²pgk tgo kpkuegpe²k m² e0 leuqf c igpku mqek o leuqf c ²v⁴v²pgk
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T»o^adcp ul kp²v²p o^at o gi r²x crr qnev jcul p^aij cvqw hgn
 C T»o ck Oci {ct V³/4²vpgk k²|gv crr l²v o²i Hcnp»k Xk²o qu
 xgvwg o gi c|cn jqi { 3:::/dcp ²r Åv t»o ck xkn²l²v wf qo^ap{qu
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 kpf wv gn c nupm²x²dc. cj qppcp o kpv ZXK0 Ng» r^arc ngt Åv nk0 C j c/

vco cu 2r. Ängv dghqi cfvc c Hicnp»kl?ng V^{3/4}v²pgk k^pv|gvv c Eqmg/
i kwo J wpi ct lewo qv. c rcrk nqn?i kwo qv 2u c o x²u|k qu|v n{v co gn/
T»o^a dcp mÄ^{3/4}pri gi gup hqpvqu u|gtgrjg| lwqv0 C| gi 2u| k^pv| o²p|
qruc| wnc| Ceecf go kc Tgcr f J wpi jgtk grpxg| 2uvner c0

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hqi lwm jqi {cp qu|qv hgn c hqvqucdd vggp m mÄ^{3/4}pri gu i qpf q^au^v
c| gi {gu xk²nk gi {gvgo gm n^{3/4}3x0 J cuqpn» o »f qp vgtxg| i gv² c
pci { nÄ^{3/4}f k o ci {ct k^pv| gvmmgn ner euqrdcp ku0 D²eudg u^a pvc
c@ ngx²n¹tk mwc»nev. c| qtxquqnev. c |gp²u| ngv. c n^{3/4}2 r kunqck
p²o gv p {grku| cnqu| vcp^a tqm gi { t²u²v. Dgtrkpdg ô vgnkpvgn c
f c j rgo k k^pv| vgmtg ô gru uqtdcp vto 2u| gwwf »uqnev. n¹o knuqnev.
dqni wuqnev. h¹k knuqnev cnetv mÄ^{3/4}gpk fg o gmgwÄm o²i n¹wj g^apw
vgnⁱ wuqnev 2u n^{3/4}i c| f^au| qnev ku0 T»o^a dc ngtÄngm xqpc c|
qruc| p {grk u| cnqu| vcp^a tqm c nevknwu rcrqm c o x²u| gm fg o gn/
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hqi lwm c| 3/4| v¹pf v¹cuqm n¹x^aqi cv¹u^v mÄ^{3/4}p cwqp»o v¹guvÄ
rgv g d¹ v0

O gi ngm o²i go r¹ng| pgo c vx^a ddk è tj gn| gm n¹. co gn {gmpgm
u^a o c u| kv² 2xt n²xtg go gmgf gw0 Hicpekqtu^a i o^a t 3; 43/v n
ng| f xg 2xgnkpv 8ô 32 3/4| v¹pf v¹cv dqu^a vqw o ci {ct f¹k^a nqm tgp f gn/
ng| 2u²tg0 G| gm o gn¹ c o ci {ct^a mco gn dd 34. o clf n¹u dd 42 mwc»/
u| v¹pf v¹cv u| gtxg| gw0 Mrgdgnudgti pgm gi {km rgi^a mcpf »dd v^{3/4}gnx²ug
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o ci {ct 3/4| v¹pf v¹cuqm c mÄ^{3/4}pd^{3/4} gi {gvgo gntg *Nqpf qp. Qzhqtf.
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nkpv c 36/gv0 C| Gi {guÄv f mco qndc u| »n» o ci {ct 3/4| v¹pf v¹/cnekv
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522.222 r/tg tÄ » v¹u| v¹gv¹ v¹ pgo xgwg hgn jcpgo crr v¹x^a p {v
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3/4| v¹pf v¹cv ngj gv¹ c| crr l³xgf gm² d n nkqu| vpl0 C vx^a ddk co g/

tknek 3u| v3pf|cm n34 An c nglgrgpv ugddgm xqncm c Tqenghngt/crcr cfqo a p{ckh ngl qtxquqm2 u vto 2 u| gwfw »uqmt2 u| 2tg0

Igrgpv u gtgf o 2 p{v jql qw c i 3434 nqto a pp{cn n3 vgu|gw o gi/ gi {gl 2 u Jctku R a n crcr |x a p{c v ti { a dcp0 G| c| crcr |x a p{ n d0 52 2 xki pgo xqrv hgnj u p a nj cw. o gtv c t a xqpcv nq| » n3 tf 2 ugm vku| v / |cwrpwn o c tcf v n0 C o gi gi {gl 2 u ngl gv x 2 vgw. jqi { o ci {ct wf »0 uqm o gj guugpgm i 3434 l34 ftg u i 3434 wf »uqm n3 vqi vj cuuqpcm gn jql a pn0 C| crcr |x a p{ o 2 i gi {2 d e 2 r qm ev ku u| qn a r0 Rf0 Mq| a p{k i 3434 x a tqudcp ic| fcu i k kunq n v vctvpcm hppg dgn n30 Jqi { c i 3434 i 34n o kn| gp pci {tc 2 tv 2 ngn 2 m Mrgdgn dgti nwnw a rku/ o w p n i u r i a v 5 o w c l c | ku. jqi { ki gp o ci cu i 3434 nk v p v 2 uv ncr qw u jqi { Mq| a p{k x a tqupcm gi {km we a lc o a t t 2 i g d d k f »c Mrgdgn dgti p g x 2 v x k u n 0

MAn3p Hi {grv gv 2 tfgo gpgm c| 2 u| cnk tqnqp p 2 r g m g n n 3 4 3 4 v o gi a ncr qf a uq n0 Hppqtu a i i c n 3 u| v 3 p f | l e u g t 2 v n 3 v g u | g w 0 J c u q p n o gi gi {gl 2 u l 3 4 v n 3 v t g | u | v t u | a i i c n k u 0 C | 2 u | v g m g n x c n n e r e u q n e v c | A l a m c o o gi crnwn uc w p m a n 3 p 3 4 u g p 2 i f p m x q n < c v c t w k gi {gvo gi {gu vcpul 2 nglp o ci {ctqm vcp | q w c m o ci {ct rgnqt ku o n 3 4 3 4 v o ci {ct kp v | g v c r n w n 0 C t q n q p p 2 r g m g n n 3 4 3 4 u w f q o a p { q u r t q d i f / o a k p m o gi q n a u a t c p a n w p m c h p p g n p 2 n 2 u c | 2 u | v g n p 2 n o gi crnwn gi / gi { E q o k 2 P c k q p c n f g u T g e j g t e j g u H p p q / Q w i t k e p p g u u g | g n i p g m v i l c k d n c n 3 4 3 4 u | g t x < c E q o k k u k q p k p v t p c v k p c r g f g u T g e j g t / e j g u H p p q / Q w i t k e p p g u 0 C o ci {ct eqo k 2 o w p n i u r i a v I q o d q e | \ q n 3 p k a p { | q w c 0 K v g o n n j g d A m o gi c u x 2 f q t u a i k c n e k v c o g n / p g m g r k p f | l e u c u j c n i n k i k a p { | l e u c x q r v N g h r g t D 2 n 0 N g h r g t d w i » o w p n i l c g t g f o 2 p { g n i p v U q e n j q m d e p o gi crnwn c u x 2 f / o ci {ct v t u c u i u n 3 v t g l 3 4 v c | gi {gvo gp c o ci {ct kp v | g v 0 U x 2 f q t u a i i c n M r g d g n d g t i u | k p v p e u g t g 3 u | v 3 p f | / g i { g l o 2 p { v n 3 4 3 4 w 0 H g n A l w n m c | 2 x u a | c f q u n w n w a r k u 3 4 u | g n 3 4 v g v 2 u g m U x a l e e c n k u 0 3; 47 48 / d c p M r g d g n / d g t i p 2 i { U x a l e t c u | » n o ci {ct a m c o k 3 u | v 3 p f | c v n 3 v g u | g w g n u u q t / d e p n i n k p k n c v g n i w q m u a o a t c . f g n 3 u d d c n 3 4 d x A n 2 x g n o a u u | c n q m k u h i { g r o d g l 3 4 g w g n 0 N g p i { g r u t u a i d c p c x c t u > k gi {gvo gp o ci {ct kp v | g v h g l n f 3 4 v n k c o g n / g v c n 3 v n q t o a p { n 3 4 3 4 u g p v c t v q w h p p 0 C n e r e u q n e v 3 u | v 3 p f | e u g t g g i 2 u | g w g n k u u v g w j c v u q c d d a 0 M g | f g o 2 p { g l 2 u a n c r | j c w » o gi D w i a t k d e p . c j q n gi { o ci {ct wf »u h p v a u a u c v u k o w p n i n e v x 2 i | g w = O c f t k d e p . c j q n M r g d g n d g t i c | gi {gvo gp o ci {ct n 3 p { x v t e v u | g t g v g w x q p c h g n i n f c p k 0 V q x a d d k v g t x g m k u h q i n e m q | v w m r r 0 \ A t e j g v k u u a o d c x g w . o k p v c v e j p k n e k w f q o a p { q m gi {km ngl gt ugdd n 3 4 r q p v a v 0 I p q f l c x q r v c t t c k u . j q i { m a n 3 4 f k k p v | o 2 p { g k p m gi {o a u c n j c t o » p k d e p o n 3 4 l g p g n 0 C |

34u| go n34²u dk vq|^u uc e²n¹d»n o²i 3;46/dgp o gi cmqwc c MÄn/ h34f k k²v| gvgm U 34²gv²i²v. co gn| gnu ¶ dgp 3;470 j Äx²v¹a p vctqv w Dgtrkpdgp Än u0

C mÄn34f k o ci {ct k²v| gvgm Äi {²pgm v4x²p{j q|^auucn xcn» tgp f g²ug uq¹a p u| gtxg| vg o gi c| gi {km n²i p²gxg| gvgudd wf qo^a p{/ r qrkknk cmq¹v¹v. c| Qtu¹a i qu .. u| v34f ¶ v²a euqv *3;49< ZK60 v g0 äc mÄn34f k o ci {ct k²v| gvgm n²u c o ci cu o xgm²i e²n¹v u| qn¹a n» 34u| v34f ¶ cnt»n 0 C v²a eu h²rcf cvc xqrv j qi { gnu uqtdcp c| gugv²i o wcvnq| » j k²p{tc xcn» vgnk²vgvgn^a m²pf »cp hki {grgo o gn n¹u²tlg c| gi {gu wf qo^a p{^ai cm o xgn k²gm o gi qu n¹u¹v j ¶ klc hgn c hki {grn v c o gi hrgn v²i gv²i gntg. lgr34ig nk c wf »un²r|²utg n²i cm²o cu²dd xgl gv ngv²u j gn²ngv u h n²i < lgr34i34 nk wf »uqnev. o x²u| ngv u d0 dgn²u mÄn34f k 34u| v34f ¶ cntc0 f n²rcf dcp lqi c²u n34²grgu²i g xqrv x²ngo² p{v p{ kx^a p ¶ cpk c| 34u| gu j c²v un34²dg vctvq| » Äi {gndgp0 C u| gtxg| gvg Mrgdgnudgti c n²i pci {qdd i qpf fcn f qn¹q| v² n¹0 O ci c ku gi {km n²i h²pvcudd r qvpem c| v vctqv w. j qi { c o k²ku| vgt c| 34u| v34f ¶ cn²ev c v²a eu lcxurvc c n²r l¹a p ¶²rk qf c= Äi u| go² n²ngv pgo lgr34j gv. eucm x²wlqi qv i {cnqtqj cv0 Vw qo^a p{ r qrkkn¹ l¹a pcm gi {km xg| gv i qpf qrcv xqrv c rtqvgnel». c t²i k o ci {ct dvgi u²i nknÄu| 34i34²ug0 C| v vctqv w. j qi { c| qtu¹a i u| gi² p{u²i g²u c| Äi {²tf gn²dgp j q| qw^a f q| cvc u| k²v o gi n34²gvgrk j qi { c o k²ku| vgt gl gp c r qvq² o k²v i { o gi n34²ug c ucl¹v n²l²0 Co gpp{kdgp o^a upcm o k²v c| 34u| v34f ¶ v²a eu »n cm²o cu¹ o k² u| gwp²gm c f^a c| 34u| v34f / f ¶ cv c v²a eupcm lqi c xcp c n34²ki c i c²v uk d ¶ »u¹ i p^a n r epcu| n²rp k u c| cf qo^a p{q|^a u w o gi ugo o k² ¶ vgvk0 lqi i cn xgvvg hgn c n²tf² u w xqrv/ g o k²ku| vgt. cnk c o ci c n²l² f go² p{gl v² v4x²pp{gn gpp{kg nqt/ n¹v q| v² xqrpc c ucl¹v j c²v un34²vÄ C p²gxg| gvgu r qvt »n c v4x²p{lcxv/ n²v k²f qn¹u¹ dcp c n34²gvn²l² ngv o qpf l c < äP {kx^a pxcn». j qi { c wf qo^a p{qu²u c o x²u| gv k 34u| v34f ¶ cnel» eucm cmqt hqi lc c x^atv i {Äo 34²eu34²ngv o gi j q| pk j c mÄn34f tg xcn» dcp klÄu¹ i wpncm c u| p²v²u xk^a i¹ v mÄn lÄm xci {ku nk n²gm |^a t²pk c rtqvgnel» v²u dk vq|^u cpk n²gm c u| grgnel» v0 M34²kuo gtv. j qi {²rrgp c rctro gpv²tku nqto^a p{ hqto c o gngw xcp c o k²ku| vgt n²i k²ndd nk²xg c rtqvgnel» p{qo^a u¹ pcm o gn| j c |^a pndcp o » f hrgw hgrdwl¹a p| qw u ¶ i {²rrgp gi { qn¹cp Äi {/ eucr qtv k²v|² u² p²n c j qn c lqi quwv²cp r^atv²qi^a u c n²i pci {qdd n²tv qnq| j cvc. k²v|² o² p{gugp n²gm x²f i^a vnev² r ¶ vgvk c rtqvgnel» dg/ v4² u² xgn u| go dgp0 G| c| qpdcp c n²tf² upgm eucm c pgi cv ¶ k qrf cr= k²v|² o² p{gugp n²gm dk vq|^u cpk c| v ku. j qi { c l »n o gi u| gtxg| gw u| g/ rgnel» t²x² p² rrgp c n²i v²i gv²i guggdgm²u c n²i o gi d ¶ j cv »ddem p{gt l²m gn c wf qo^a p{qu²u c o x²u| gv k 34u| v34f ¶ cn²ev0 C v²a eu

o nî4²ug dgx^anqwc c o kplu|vgt tgo²p{gk0 J co ctqucp^a vo gpv c
nî4 wfcvdc. jqi { c| 34u|v3pf|cm ul²qu|v^up^an eucm v^{ti}{k ul go/
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C nî4 x²rgo²p{ c| .. ul v3pf|cnel»v^a ncr^adcp o gi²t²v²ugn u v
dk qp{qu tqnu²pu|gp²xgn hqi cfvc0 D^at cnefvcm cnkm m²î34f k ênwz/
rcm²v²nt»n. ëo grj j^a|k r^am cvgp{²ul gt nî dgu²ngm fg c|²tv c|
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^arfq|cpcm ul A²n²i gu²i g o²n{gp i {34ngt| km o kpf gp l» o ci {ct go/
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o gt²ug o²i ku jco ctqucp wcv v²4v c m²î34f k nî4 x²rgo²p{dgp0 C rgi/
knv²ngugdd d²». Dgv²ngp K²w^ap^a ncr²qwc o gi t»rc. jqi { o kpv
nwnu| o kplu|vgt ëcm² m²Ar qrkknî v ku hqn{vcqw c ul» ul qtqu²vgn²/
dgp0 lrgo|. jqi { jcnî rnu² c| gi {²dnîpv tgpfgupp l^an kphqto^anv
p²o gv ncrqm gi { t²ul g o kpv xqiv m²î34 {o kplu|vgtv rctgp²nc gr0
Cpp{kdcp v²p{rgi m²Ar qrkknî v ku eulp^anv. jqi { gi {gvpp cmcm cv

ugo o wrcu|vqw gn c o ci {ct pgo | gv ²rgwo gpv mwaw^arku v⁴gnx²ugk/ pgm j cpi q| v⁴u⁴tc0 Igngo | c| ku. co kv j cfi^arcnqt Dgengt. c rqtqul n⁴qmc^vu⁴i {k o loku| vgt v⁴uc t>rc < eEucm euqf^amq|^au⁴cn^a mcr v⁴j cvlwm o gi. o gnmqt c r²p| ⁴Å {k^a n⁴f q| cvqntc wfvc Mrgdgndgti c| gi²u| nqto^a p{v dgr²txg c r²p| ⁴Å {o loku| vgtv ku. mwaw^arku e²ngm² tfgn²/ dgp ³u| v⁴p³4 p⁴0 Vgto²u| vgu. jqi { gl c rqt⁴kc. h rgi c dgr⁴pk d²euk² u t>o ck Eqngi lc J wpi ctkec crr v⁴uc. jcl^al^adcp p²o k ntkkn⁴v x^anqw nk0 C n⁴k⁴Å⁴m» pgo wfvc o gi v⁴rp⁴ v⁴Andgeu⁴ng/g Mrgdgndgti c jcl^ack r²p| ⁴Å {k gt ng0 Fg ko rqp^an» xqn gi²u| Gm»rc u|^ao^atc c mna⁴tc xcn» v⁴gnx²u c o gi kpi cvj cwvcp jk. jqi { Oci {ctqtu|^ai kuo²k eucm cmqt ngul pci {. j c c xh⁴i o gi xpwlc dgppg pgo c nku ncxppk jcwv cv jcpgo c pci {. p²m⁴Å⁴/j gvvgp mna⁴v²p/g/ v o²n^ap/qip⁴0 J cuqpn» p {kcvnq| cvqnt»n o clf ngul cmerp wpm dgu^ao qrp⁴0 M⁴u²i/ vgrp. jqi { pgx²v c| gi²u| xh⁴i qp kuo gt²m u v uqncp kki {gn²m v v n⁴pn0 Cnefv n⁴u dd qn{cp x²rgo²p| ku. jqi { gl v c nkx²vngu go dgtv c uqtu u|gtgeu²v⁴gp nku jcl^alc u|^ao^atc wrcf qpn⁴r rgp v⁴Å²tggl/ v⁴0 Mrgdgndgti c| k⁴gp hgr⁴q^au gmgp dl⁴qp {qucp v⁴ncnq| qw xqpc# Mwn⁴f k r qo^aekck o wpn⁴u⁴i^axcn gr⁴tv. jqi { jcl^al^av nleukp {gm²u pci {qm mwaw^arku xqpcn⁴p o^at pgo eucm o gi dgeu⁴Å²m jcpgo vcpwpk ku ng|fv⁴m v r⁴0 Oci c ku o kpf gpv o gi vgw. jqi { v⁴gnx²ugk/ ngv c n⁴Å⁴f jkgru hqt^auqnd>n kuo gtj guug o gi 0 Gi {kn r>f kwo c xqn c jcl^apn⁴dcp vctvq pgo | gwn⁴k wfqo^ap {qu nupi tguu| wuqm gn cf>/ cu|vrc0 K⁴gp nupi tguu| wu o loku| vgtu²ig c⁴w ct^ap {rci pci {qp uqm xqn< c euqpn⁴ qtu^ai² r rgp c| v⁴gnx²ugk gtgf o²p {gn²pv mwaw^arku u|go rqpvd>n gi {kng rgw c rgi lgrgp²v⁴ngp {gdd wfqo^ap {qu i>er qpqvml pen0 C Pgo |gv⁴m U ³kgu²ig uqm hqp⁴qu e²mkv |²ug n⁴4 An v⁴ip gi {gv xgw nqo qn{cp u gi {gv k⁴v²| gw gn rgi cfi^add xku| qp {rci qu r^atcvcp/ u⁴i i cn< c u| gmgo k gi {Awo n⁴4²u0 C mwaw^arku ³u| gn⁴v⁴v²u c| gi {gu qtu^ai qm n⁴4³4v^a nci^adcp ²r⁴pm xqn0 C nqtu| gmgo gv Mrgdgndgti pci { i {cnqtrc⁴k² |²nmgn jcu| p^anc hgn nqx^addk c p²ru| ³kgu²i k rgi gv u²i gngp o guu| g v⁴ro gp ³u| gn⁴v⁴v²ugm r⁴v⁴v⁴u²tg0 Gi {o^auv²t²m c nupi tguu| wuqm c o loku| vgtk²u gi {²d r⁴v⁴i cv⁴uqnd0 Mrgdgndgti pgo kuo gtv r⁴kj gp²u0 U ⁴kgugp x^ancnc r⁴o c p^an⁴pm vctvq pgo | gv n⁴4 k wfqo^ap {qu nupi tguu| wuqm Åppgr²n⁴gu o gi p {k⁴u⁴0 K⁴gp cmerqo o cn tgpfgugg c o ci {ctu^ai mwaw^arku gt hgu| v⁴ugk kuo gtvgw0 C lgrgp⁴x o ci {ctqm cnkm c v²o c nkhl⁴v²v o^at gugv⁴i v⁴dd x^an⁴vq| cvdcp kuo gt²m gn⁴m²mqfxc^a ncr v⁴j cw⁴m o gi c| v c tgpfn⁴k⁴Åk jcv⁴uv co gm {gn Mrgdgndgti c n⁴Å⁴f k jcmi cv>u⁴i qv xcn>u⁴i i cn r⁴/ p { i³4 v⁴0 Ungr²pgm gi {kn v⁴nc c| xqn. jqi { tgo gn⁴Å wfvc o gi Åpk² r rgp c| v c j cpi qv co k⁴g u| Åm²i xqn0 C pgo | gwn⁴k v⁴v²pgk

x^ancu|w^ap| dwfcr guk 3⁴u|gl³g⁴v²p r¹0 c|v h²l¹vgi gwg. jqi { p^an^wpm
 c 3⁴v²pg²o p^gm n⁴4²ngi gu p^go|gk l^gngpv u²i g xcp. o gtv c l^gngp
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 i t^gu| wuq² *Z0 Vci wpi fgt I g²ng²chv h⁴ Xgtfco o i u/ w⁴p Uq⁴h/
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 v²dd m⁴4²f⁴k qtxquk h⁴n>kcv kf²|v² c n⁴4²g²v²g| t²u|n^gv< eC t^gwg/
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 o k⁴ki o gi o p^gv²w²n0 Ok o ci {ctqm c x⁴k⁴i 3⁴v²pg²o vci km²u p²r²g
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 c n⁴4²f⁴k l^gngp²rx ntg c|qpdcp o² o k⁴v c h⁴n>kcv ku n⁴4²g²k o²
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Uqnev wc|qw n⁴4²f⁴tg ku. jqi { qw pci {qdd ki²p{ gn cf^auqm
 dcp m^wwt^arku 3⁴gnx²ugk²ngv kuo gt²uug0 P²o g²qtul^ai dcp. cj qn gt u
 d^ta⁴vk n^wer euq²ck xqncm 3⁴ld 4|dgp l^at0 C| gu pci {qdd n⁴4²f⁴k
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 n⁴g²gp t²u|v²gw c p²o²gv t²i²u|gk v²tuc²i lwdk²tku ⁴u²p0 O k⁴gp
 gi {gu ⁴l^at>n ⁴l²cd 3⁴u|v⁴p²ugmgn² u c|cn c o gi i { | f²u²gn v²tv
 xku|c. jqi { o^au o>f²qv p^go x^ancu|v²qv xqnc0 3;49/dgp Q²cu|/
 qtul^ai dc n⁴4²q²qv gn cj qn c v²clv n⁴4²rk²nc² D²g²ng² o^at
 pci {qp n^gf²x|gp gn n⁴4²u|⁴g²w0 Gn cf^auv v²tqwc c t>o ck gi {g²go gp
 *U n^ggo k 3⁴u|go n⁴4²u O ci {ctqtul^ai²u Q²cu|qtul^ai n⁴4²3⁴w. co gn|
 f⁴l⁴f²qm²q^ax^a cxcw0 L²tv P^ar²qn⁴dcp. D²q²i p^adcp. O k²p>dcp0
 C| w>ddk²gn²gp u|k⁴v²p v²tq²gn cf^au0

C| gi {km n^gpgx²g²v²g²dd n⁴4²q²v²c D²eup²gm u|>n^w. cj qn c| q²w²pk
 V^wf²qo^ap|qu C²nf²o²k²p 3;520 h²gd²w²t^adcp pci {l^gngpv u²i gn/
 cf^auv v²tqwc c o ci cu m^wnc v²t⁴ng²p h²ng²gt⁴n u|gtx²gk r²tq²d²r/
 o^an>r0 R^at per²qp n^gt²u|v⁴n co k⁴v g|v c ucl>j²cpi qnd>n w>nci²q²c
 ku o gi^an^wr⁴l²cd²wm u|go²n²g² u o n⁴4²ug c|²tf²gm f²u n⁴4²r/
 r²q²l^adc n^gt⁴n0 F²g c|v ku o gi h²i {g²ng²l⁴m jqi { c| cm²tk D²eu. c
 j²kc²v²qu n⁴4²m o k⁴gp l>k⁴fv². o gi^at²v²ug² u v²u|v²ng² g²ng²tg
 pg²| v²cl x²q²v c e²h²g²t²i O ci {ctqtul^ai m^wwu|o k⁴ku|v²tg u^ao^atc0
 K²o gt²g²v. jqi { c d²euk ucl> gi { t²u|g. c dc²q²rk² u c eug² r²p|gp.

hppvctvqW Æufiqm gt ugp o ci {ctgngpgu xqn0 G| gm c nrcqm pgo
 p² | v^m l» u| go o gn c| gn cf^a uv vct». p{lcwvq| cvqnev cf». ekmgngv
 ¶» Mrgdgnudgti pci { ukngtgv u fwxc j cpi Æ t^a i cm cmen rt» d^a m^m n
 n³4 3/0 d³4 ¶gpk c o ci {ct o lpu| vt j cv^a u^a 0 Gn ngt Ængm c| ct| gp^a rd» n
 c tq| uf^a u j c| w^a u^a i qm² u ¶| gv^a pu² i gm c rgi^a | qw o ci {ct o w^a n^a uqnt» n
² u rctcu| vqnt» n c| cpcrd² v^a nt» n c r^a xgv^a / kp^v | o² p^t n c o gi /
 tgp^f u| cd^a n^a | qw kqf cm^o t» n c| gi {j^a | cm v^a mer^a uck» n uvd0 uvd0
 Mrgdgnudgti t n r r0 c| v^a n^a ¶| qw^a m j qi { c vcp^f ¶» m u^a | ckv² u gltgk | v^a
 gn j qi { c| kv^a m» nj q| j cuqⁿ» p² r kun^a n^a ndcp gi { / gi { qu^v n^a | dcp c
 tedu| qn^a m i { gto gngkpgm u^a | ckv | u^a hq^a rlc 3/4 u| g. o kn³4 dgp ec h^a cvn
 o ci {ct pgo gugnⁱ u^a o^a t c tci {qi » m^a n³4 f^a k nqⁿ i kwo qnev² r ¶| v^a g⁰
 C| o^a t u| kp^v g dge² i g^v u^a o^a dc o gpv. j qi { c èu| gmg^o r² p| j co k^a ¶| v^a /
 l^a pcmⁱ. c m^a w^a t^c èu^a | 2^a j^a o^a u^a pcmⁱ p^a xg| v^a m u gi² u| m^a w^a t^r q^a rkn^a l^a xcn
 ner euq^a v dcp j cpi w^a v^a gn² u qn^a d» n Rq^a vgo nkp p^a gx² v u t p go rgi gw² n0
 C| gi { km eugj | uq^a r dcp^a m» nrc c| qp dcp h^a n³4 r^a g⁰ I { cp^a u. j qi { O ci { ct /
 qtul^a i qp u| qe^a r^a ku r q^a rkn^a t^c p^a k^a u r² p|. m^a w^a t^a c xku| qp v xcp ¶
 M^a v^a i v^a g^a r^a p. j qi { c m^a w^a t^c gl cm^a n^o o cn r q^a rkn^a ck e² m^a k^a | 2^a u g^a v^a
 v^a net < O ci { ctqtul^a i gl gp c t² xgp u| gtgv^a pgi² | j gn| gv^d n nko gn /
 n^a f^a p⁰ J c c l^a r^a gn^o gv^a u| ko cv^a ek^a m^a ¶| v^a v^a d^a h^a tcf^a i qv xgw xq^a pc
 o ci^a pcm j qi { Mrgdgnudgti v³4 gn² ugk^a o gi kuo gtlg. gl v c v^a v^a n^a c|
 go dgt³4 v^a k i { cpcn^a u ki² p { d^a x² v^a r^a p² m^a n^a ku n³4 p^a { gp o gi^a nrc ¶| v^a
 j cw^a xq^a pc0 Gi { 2^a dn³4 pv g^a kuo g^a k j qi { Mrgdgnudgti e² n^a w^a f^a cv^a u m^a w^a t^r /
 r q^a rkn^a l^a dcp 3/4 o ci^a dcp x² xg xcp x^a r^a o k k^a r q^a p^a n⁰ C w^a | t^a k^a 2^a r gp
 c| gng^a p^a n^a | w^a cv^a x^a r^a u| v^a qw^a < c m^a w^a t^a p ur » tq^a n⁰ > C0 c v^a u² u. co gn^a | t^a
 Mrgdgnudgti it» h v^a r^a n^a o gi o w^a cv^a. j qi { c d² euk w^a f^a qo^a p^a | qu
 n³4 3/4 m gl v c u| g^a xg^a | v^a j gv^a u² i gv O ci { ctqtul^a i v^a n k^a ki { r^a m d^a t c| ku
 n^a f^a g^a t^a n^a. j qi { g v^a j gv^a u² i c r q^a rkn^a dcp i { 3/4 n^a g^a | kn⁰ G| c| k^a ki { u^a i v^a n
 h v³4 v. h^a q^a euk^a n^a t^a c w^a ep g^a kuo g^a t ek^a m ku d^a k^a q^a p^a ¶| v^a c. j qi { Mrgdgnudgti
 Ælc gl cm^a n^o o cnku v^a r^a i gu ukngt^a gn^a t⁰

Wi { cp^a | gp² x^a r^a t^a k^a u^a o^a l^a w^a t^c g^a u^a w^a Mrgdgnudgti p^a gm Æ0 p0² u| cnk
 Ælc0 f^a r^a t^a k^a u 490² p² tng^a | gw Uqen^a qm dc. c j qn o gi n^a v^a i cv^a c o ci { ct
 kp^v | gv^a v. o cl^a c| gi { km pci { u^a n^a q^a f^a ¶| v^a g^a t^o dgp gn cf^a uv vctvq w
 c o ci { ct m^a w^a t^a » n² u O ci { ctqtul^a i x^a k^a i v³4 v^a p^a g^a k^a j k^a cv^a u^a t^a r⁰ O^a l^a w^a
 40^a p² tng^a | gw V^a w^a m^a h^a pp x² tq^a dc. c j qn t² u| x^a gw gi { w^a f^a qo^a p^a | qu
 kp^v | gv c^a n^a w^a » Æpp^a r² p u o c i c ku h^a n^a | » r^a n^a < n³4 3/4 m^a w^a t^a r^a ku o w^a p^a n^a t^c
 j ¶^a v^a h^a n^a c t^a n^a p^a r^a g^a n⁰ O^a u^a p^a r² tng^a | km c h^a pp h^a x^a tq^a dc. c j qn gn /
 cf^a uv vctv c o ci { ct m^a w^a t^c xg^a | gv gu⁰ o² kp^a gm h^a l^a n^a f² u^a t^a r⁰ K^a v c h^a pp^a n^a |
 p^a gm h^a l^a k^a nk c| v c n^a f^a x^a g^a v^a v^a j qi { c v^a k^a p^a q^a p^a O ci { ctqtul^a i qp c
 o ci cu^a dd² t^a v^a r^a go dgp x^a gw j q^a p^a x² f^a gm gv c n³4 q^a m^a v^a u^a Æi { k^a v^a t^a ec n^a v^a c
 g^a r⁰ H^a pp^a qtul^a i k w^a | u^a c x^a n^a u^a i qu f^a k^a f^a c^a n^a w^a o^a o^a qt^a qu^a w^a < c h^a pp^a gm

o²i wf'cm ngmgufp# C n³gngl lgrgpv ugdd^a mo^au | u|vtu^ai/
 dcp Vctvw cjqn o gi vgnkpvwg c| qwepk o ci {ct kp²|gvgv. co gn{pgm
 gi { u²r nkcfx^ap{c²rrgp gl gndlgp c perqndcp lgrgpv o gi 0 C|²u|vgm
 ngmguf>u²v o wewlc gi {km n³4w l³Äp³gm *M0 G0 U³44+ Mrgdgnudgti
 vku vgrv²tg ¶|v Äfx³4n n³4go²p{g< n³4|³pk c ëo ci {ctqm u²r f²rk
 jqp^ad>n²tnl|gw xgpf²i gv c ëtqnpqm vgw²tk n³4g²v. cnk gr³4w
 dk qp{u²i qv vppk ctt>n o kv lgrgpv c p²rk tqnpu²i u o gmmtc gt c
 uqtu xlj²ct^adcp c dct^aw nerqeu0 Gr³4gvgng per uwi ctcu jkgv²u l³4 dg
 xgvgw dk cm cv jqlqw c tqnpqmpcm ku0 O gi n²vi cwc Tk^av. o clf
 Xkp^av0 O^alwu 330²p²tnl|gw Xctu>dc. cjqn gn cf^auv vctvq c ngpi {gn/
 o ci {ct u|nggo k gi {Äwo n³4²ut r0 Kvj qp uqncp tqul²p²xgp xgw²m
 pgnk jqi { gl v c| wew x^amcnc0 C o gi n²vi cvqw qtu^ai qm Ngpi {gn/
 qtu^ai nk²vgr²xgn c pci { rqrkkn²dcp pgo uqnev u^ao ¶|qwcnc0 Mrgdgn/
 dgti gv o gi i {cpÄ¶¶qw^am jqi { eucm c ucl^av pgx²v cnetvc hqi cmo dc
 jqlpk c p²mÄn jqi { c| qtu^ai pcm m³4p³ugdd jcul pqv jclvpc ëc|
 gu nko >np^an vgw n²vi cv^au²xen0 P go pci {qp²vgw²m o gi. jqi {
 Mrgdgnudgti n²pi qn> hclul gtgvwg^aveucrw c tqnp²r gntg ku. cnkm
 jql |^apmj cuqpn>cp mÄu n³4 vgm²vÄn²tv²u mÄwÄ lwn²tv0

G| c o²n² ¶^av²t|²ug c tqnpu²i k nereuqrcvmpcm gi {²d mÄwÄ/
 rqrkknck kp²|ngf²ugldgp ku o gi p{kx^apwr0 O^at 3; 4: /dcp Dwf cr gvgp
 o gi u|gtxg|vg c KKK hpp/wi qt nupi tguu wuv. o gn{ gn n²u| ¶|gwg
 c j^atqo hpp/wi qt mÄwÄp²r o^at go ¶|gwg n³4³u wf qo^a w|qu
 kp²|o²p²v0 G| gp c nupi tguu wuqpn²0 :22 hpp²u²u|v xgw t²u|v0
 C|³4u|gl³4gvgn ëo kpvi { gu vcr^amj^auc xqnv gl c o ci {ctu^ai/
 pcm tqnpckxcn j^atqo gl gt²x w^ap0 Col>vc c o ci {ctu^ai nk^anv c|
 Wcn o gp²p gngtÄv hpp/wi qt ujcl^ad>n gpp{k tqnp^axen o²i uqj c/
 ugo l³4w³4u|gü Pci {²tf gm f²uugn n¶²tv²c J gnukndlgp 3; 53/dgp
 o gi vctvq KX0 nupi tguu wu gn n²u| Ärgvkv ku0 Tgpful gtgu|gwg xcr/
 o gpp{k cn>/²u n³4²r hqmÄ kunq^apndcp c tqnp²r gm per l^av< o kp/
 fgp qm>dgt n0^ap kuo gtvgpk nngw c hpp²u²u|v pgo |gvgn v³4v²pgv²v.
^amo k dgtgpf gl²u²v. mÄwÄ^al^av. o x²u|g²v0 C|³4u|v³4p²uv gjj gl
²u|vgm cf²m cnkm c| gu tqnpu²i k perqv 3; 4; 0 lcpw² 480^ap vctvq^an0
 | u|cnk Äl^apcm vx^addk gtgfo²p{g xqnv c o^at go ¶|gwg pgo |gk cn/
 dk qw^ai qm o gi crmw^auc c n³4³u v³4v²pgnk p{gkxw^aqo^ap{k²u
 p²rtcl|k rtdqf^am wf qo^ap{qu hgr^aqi q^au^apcm k^ap{¶²u²tc0 Vgt/
 o²u|gvu c| ku jqi { n²vi cv^auc o gi² n²pn¶|gwg c wf>ueugt²v²u c|
³4u|v³4p²¶|cuqmnknÄf²u²v0

P go jcp{ci qnc gn Mrgdgnudgti c|v c ugi ¶|u²i gv ugo. co kv c mÄ/
 h³4f k ucl>pcm O ci {ctqtu^ai k^apv xen>²tf gm f²ug Äi {Äp³gm lgrgpv
 jgvgw0 Uqj c cpp{k ekmm mÄh³4f k nerqndcp c o ci {ct wf qo^ap{qu
 v³4gmx²ugnt n pgo lgrgpv o gi. o kp v gl gndlgp c|²xgndlgp0 O ci c ku u|¶

xgugp tci cfqw vqncv jqi { gi {/gi { m²4f k Àu¹idcp c o ci {ct nwn/ w^a rku v⁴gnx²ugngv kuo gtvguug0 G| gndgp c ekmgndgp vgt²u gw|gt / rgi u^a o wpmc ugo o k Àl plpeu. xku|qpv c m²4f lgm u^a o^a tc cpp^a n o gi ngr dd cfvqncv vctvcm c|vno Gngkpv ciki wf^v m gm²r|gpk jqi { gi { rgi^a |qmw jcrf¹tc euqpn¹qvw qtu¹ i gmqt^c 2¹plcnet^a u>n vjgv dk qp{u¹ i qw# M²4p³ugp c m²4f k nqn² i kwo qm² u o ci {ct è tu|go ì/ kp² |o² p{gm ngnvgwm pci {qdd 2¹tf gm f² u0 C o ci {ct wf>uqm o / x² u| gm m²4f k u|gtgr¹ug c|w¹ p dgvgv |vg c o wpm¹ 0 O kpf ki v⁴ d² u v⁴ d lgn o wewc. jqi { c pgo |gpgm ukngt¹ n¹ xgti fplg cdd>n c j c/ n¹ rqu gnu| ki gvgm² i d nco kdg cppen¹ f gl² p c| qu| v^a m² u c pgo |gw² i k r tqr ci c p f c. n² u dd r g f ki c| kpvt pcekpp^a rku o wpm¹ u| gtxg| gvgm² u c nku gpvpgv 3⁴ u| g cpi qiv dghngv¹ v o wpm¹ lc lwwc0 C hq¹ vqp u| c/ rqtqf> dk w> lrgm jcv¹ uc crw x^a i {cnu| xc. dk cnqf> jkwgn 1¹ v c ng Mrgdngdgti gi {km n¹ p{x² pgm e¹ gn² pv ku c u| ko dqrknu lrgp^v u u| c/ xcncv è Llgvm jcto kpecu 2^xgn¹ O gi i { | f² ug xqmw jqi { c xkf i xgl gv p² r gkpgm x² ngo² p{g. pgo wqnu> uqtdcp n¹ xgw¹ | gvu mwn¹ / rqrk¹ l¹ pcm gtgf o² p{gn² rrgp o gi x^a nq| qw t>n¹ xpm u gl c x^a nq|^a u c jcto kpecu 2^xgn¹ dp o^a t rqrk¹ nekri ku o wewnu| pk hqi 0 N¹ pi qn> u| excm¹ en jkf gk jqi { plpeu u| Àm² i Àpm jco ku cfvqmmen qrgt^a n> r tqr ci c p f^a tc< gn² i rgu¹ v¹ ti {kci qucp t^a o wewpwm c o ci {ct o xg/ n f² u 2^t v ngk¹ g0 è C o ci {ct pgo |gv pci {u|gt jcteqv hq¹ v v. i {3⁴ p{3⁴ gt hgu¹ 1¹ v vgu¹. o gn¹ | u² r u² i gv xku| gi {2¹ dn² pv uk^a t nqt wpm¹ d0 O gi cnetlwm o wewp k u| gngo k 2^t v ngk¹ ngv² u c| v. jqi { j c o kpngv gn cnet/ pcm v⁴ 3⁴ pk cmm¹ t c nwn¹ tc gi {km p² m²4j gvgvpg. r>vqj cvcvc p o wpm¹ u¹ v³ 4kmo gi 0

! tfng¹ u. jqi { ct^a p{nci o k¹ gp nku o 2^t v ndgp jcu¹ p^a nc hgn c p² ru| 3⁴ gw² i k Eqqr² tvkqp kpvngewng n¹ 4 xgv¹ 2¹ u¹ 0 C|² tv gttg ku i qpf qmw dgrg ku nreun¹ fqw o wpm¹ l^a dc. fg pgo d¹ | qw vrgluggp c o² i ku kpn¹ dd d¹ qntc¹ vnu lmg¹. c| vgo rgtco gpwo^a j q| n¹ r guv v¹ n¹ i qu n¹ p{gm guggp o q| i> u| gtxg| gvdgp0 Uqmmen hqpvqucddpcm n¹ w c n¹ 4 xgvpg nreun¹ vqm n¹ 2 r 1¹ v¹ u¹ 0 G|² tv xgw cpp{ku| qt ng|² dg \$ o ci c c x^a p f qtdqvw. gl² tv jcu¹ p^a n v hgn o kpf gp cmcm cv c u lo g² / n¹ gu lmg¹ 3⁴ u| gn¹ 4 v² ugm vgtgo v² u² t g0 f ncpf> cp j cpi u¹ n¹ | q| v. jqi { c n¹ 4 xgvpg 2¹ kpvng¹ 2¹ uv pgo r>vqic ugo o k0 W¹ xctkucp Ài { hglg| v nk o ci^a v jqi { c p² ru| 3⁴ gw² i k kp² |o² p{ egv^a rku o n¹ 4² u² v ki {gm| km vcpu| xgt|^a rku nreun¹ vqmmen n¹ gi² u| 1¹ vpl0 C hqpvqu u^a o^a tc c o ci {ct Ài { u| qn^a v xqncv cmt 1¹ |. cmt Ài {0 C m²4f k wcnpcm c nqpi tgu| wuqnq² u gi {gd¹ v vctvw dgu² fgnpgm x^a n¹ n¹ u¹ v c uqm o ci {ct/ 2¹ u kf gi gpp{grx ekmm nrgvng¹ 2¹ u² v vj^a v pgo c| gi {2¹ pk 2¹ tx² p{gu¹ n¹ u xci { 2¹ rrgp c u|gtgr¹ u x^a i {c k^a p{1¹ | qwc. j cpgo c l>n^a v i qpf qivo wpm¹ r tqi tco o 0

Mrgdgnudgti pgm o gi xqiw c| c tknc grzi vrg. jqi { wfqo^ap{/ rqrkknck v²tgp o²i r²vjcvw xcrcv kv o wpr²lc gtgfo²p{gld r0 Uqncv go rgi gwg. jqi { c mwv²trqrkknck crrl^adcp x²xg jquu Arg²tcv² x^an»< c| gt hgu²ugm i {²o 3/4eug n²u p²tkn0 C lgrgm o²i ku c| v o wcv²m jqi { g| crctegm ô c wfqo^ap{rqrkknck ô v²n²pjco ct^add dg²tkn0

Hkvcrcclpm c m²tr²fk wfqo^ap{qu xk²i dcp o kpf gp²Aw dgeu²gvv ulgtgl vgn0 C wfqo^ap{qu nercu²qvm ul^arck gt ud³4vgn0 O²i c jkxc/ v²uqu flr²qo cv²m ku grkuo gtv²m c emw²trfk²qo^aekck ugi²v²i gv co kv Mrgdgnudgti cmq²v²uck»n ncrv²n0 C| gi {km xgl gv /flr²qo cv²pm Rctk/ dcp ulgtlgw vrcv²ck crrl^ap nlgngpvwg. ejqi { ugo ok ugo cmcn/ o cuodd Vtkcpv ki c| u²i vrcp²i c| pcm jkfg²v²tg c m²tr²fk²p. o kpv c o ci {ct o xgn²i² u c o ci {ct o xgn²f²uk v²4gn²ugm kuogtv²ugi0 C dgtrpk m²tr²fk jkxcv² gi {km nko ci cum» hwp²ekp^atkwuc r²gk²i Ai { p{kw²q|qw jqi { c p²o gv dktq²cmo dcp Oci {ctqtu^ai pcm wrcf qp/ n²rrgp n²v n²kgv²ig xcp< c flr²qo^aekck m²tr²fk² u c dgtrpk Eqng/ i kwo Jwpi ctkevo0 Go n²gv²Am jqi { c Mrgdgnudgti tg |^artq|» uqm rqrkknck v²o cf^au n²4² n² ct^ap{rci c rgi n²xgugdd²tv² v²n²p c m²tr²fk² nq²n²i kwo qnev² u c| 3/4² v²pf² Ai {gv0 Mrgdgnudgti glv c xku qp{rci qucp o gi²tv o ci cvct²v² 3/4² o gn xgwg wfqo^auwn u o gi jcv» uqtqmmen p{wi v² |v< eC m²tr²fk² nq²n²i kwo qnt»n ul»n lcxcurvqo dk²qu²i k v²ti {c²n²u²p^an² u uclw²dgrk hqi cf²v²u²p^an² 2²glvgo gn ul²3/4 c o ci c vgn/ lgu²i²dgp c| v c hrgo gn 2²|²uv co gn² emqt hqi gn jc c| go dgtv gi²/ ulgp o gi²tvk pgo |gvg0 C rqrkknwupcm ki c| k 3/4² 3/4 n²w²i vgrp² n² eucm c| lgrgpv. jc r²lc. jqi { o wpr²u²i c p{qo^ap tg^aru gtgfo²p{gm o w²vcw²q|pen0 Fg go dgtgm xci {wpm ok ku² u c| go dgt xcrcjqi { Ai { xcp o gi ulgtngulvg. jqi { u»x^atqi c o gi²t²v²u w^ap0 Mko qpfjcv²cp 3/4² o gn v²4n²4v vj^av gn co knqt c| v r²wco. jqi { g| c lcxcurv ki c| k o gi²t²v²utg v²n²0 Ogtv c| 3/4² ulgu v²4x²p{lcxcurvqm n²4² n² co gn²gnv gffki ulgo²n²gugp ulgtngulvgwo² u c rctrcv gpvdgp n²rxlugngo. c vcp{ck kunq²nt»n ul»n v²4x²p{ o gngw c m²tr²fk² 3/4² v²pf² |cnt»n ul»n lcxcurv pengo c rgi n²gv²ugudd² u g n²v lcxcurw»n x^atqo jc^ao t²u²l²tg c rgi pci {qdd jcu pqv0

Ogi ngm o²i go r²hgpgo c| v c n²v^a v²qi» ulgtxglvgv co gn²gmmgn Mrgdgnudgti c m²tr²pd³4 vt²gvngp fq²qi|» wfqo^ap{qu v²tuc²i qm² u k²v²|o²p{gm o wpr²l^av 3/4² ulghqi pk ki {gn²gw0 C| gi {km c Vwfqo^a/ p{qu V^atuw²qvm² u k²v²|o²p{gm Qtu^ai qu U²3/4gv²ig. o gi ku xcrc/ uwn0 C o^aukm c ulkpv hcpv² v²mw o²tg² Uwr²tcw²pkxtukcu eucm vgtx o ctfv= c| w»ddlpcm vgv c²n² jq^au²jq² c n²4² gn gi { 2²x²gf p{k o kplulv²u²i ku²3/4kf kf pgm²dk qp{v²n0

C pci {u^ao² o ci {ct wfqo^ap{qu v²tuc²i c j^adqt² f g h rgi c| qtul^ai euqpn² d²ng n²4²gvng² v²dgp ulkpv gi {v n²gi {ki pgj² | jgn/

|gvdg lwqw. r g f k i x q n c m n̄4 v̄m o k p c u | g t g p o g i u | g t x g | g w x k^a i | »
gi {gu^ārgvm ku0 C j qu | À²xgm hqn{co^ap 3̄u | gi { l v̄w vctv̄f nqm f g x c /
x^an̄fcm c vci qm u l²u | » t x f c m c | g u | c n̄f q w t²u | g n g p o c t c f v v i q m
r x^a n c m u c n k f x^a p { q m c i c | f c u^a i k v g t o g r²u * p { q o f c . r c r k t q u + o g i /
f t^a i w̄ u c n̄4 x g v g | v² d g p 3̄u | g l u w i q t q f c m x c i { v r l g u g p o g i u | p v g n 0
k k | g p n̄4 Ā² p { g m n̄4 3̄w c r g i v̄4 d w f q o^a p { q u g i { g u^ā r g v v x^a d d /
o n̄4² u g n̄ t f² u g u u² x^a n 0 M r g d g n d g t i . o k p v c V³4 v² p g m k V^a t u w r v
g p 3̄/ n g . o^a t 3 ; 3 : / d c p j k f g w c u | g t x g | n g f² u u | Ā² n² i g u² i² v c n̄4 3̄u
e² n q m o g i n̄4 g n̄f² u g² t f g n̄ d g p 0 C r t q i t c o o d c p c r c r | d g u | g t² u .
p { q o f c h e n̄ f n̄f² u c . n̄4 3̄u v̄ t u w r c k j^a | v e t x g u d 0 u | g t g r g m g n 0 C n q o /
o w p k o w u w̄ p o g i c r c m w v c V w f q o^a p { q u V^a t u w r v q m V^a t u w r v n̄4 k
D k q w f i c . c o g n { p g m g p 3̄/ n g M r g d g n d g t i r g w 0 G | c | k f g k i r g p u u | g t x
o^a t k u g r t v d k q p { q u g t g f o² p { g n g v 0 U k n g t Ā^a v r n 0 X c u u L } | u g h c m q t k
n̄4 q m c v̄ u Āi { k o k p l u | v g t v n p { q r e x c i q p k p i { g p / r c r k t q u v d k v u f c p k c
u c r c r l^a d c p x² x g v g v c n̄ l w q w c p { q o f c n̄ t f² u g k u 0 O g i c r c m w v
w i { c p k u c V w f q o^a p { q u V^a t u w r v q m U c l w x^a m e r v e e^o t² u | x² p { v̄ t u c /
u^a i . c o g n { g i { n k u g d d p { q o f c o g i x^a u^a t n̄ u^a x c n o n̄4² u² v o g i k u
n g l f v g 0 C o g i k p f w̄ u 3 ; 4 4 0 u | g r v g o d g t² d g p p { q r e o k n k } n q t q p c c r c r /
v n̄ x g n v̄4 v² p v . c o g n { j g l n̄ u d d c |^a n c o v x^a d d k l g n g p v² n g p { 3̄u | g /
i g v c f q w 0 H e m g t Ā^a v c | G i { g v o k P { q o f^a x c n x c n } h Ā k } 3̄/ n g v . c o g n /
d n j c o c t q u c p x c n u^a i r g w 0 f | { n g r g v g | g w c o c k G i { g v o k P { q o f c .
c o g n { w f q o^a p { q u² r g v p n d g p n k x² v n g u g p p c i { u | g t g r g v l^a u | k n 0
3 ; 4 5 / d c p o g i c r c m w v h q t o^a r k u c p k u c V w f q o^a p { q u V^a t u w r v q m² u k p² / /
o² p { g m Q t u |^a i q u U 3̄/ k g u² i g . c o g n { i q p f q u n q f k m c w f q o^a p { q u n k /
c f x^a p { q m² u h q n } » k t c v q m o g i l g r p² u² p g m d k v u f² u^a t » n c |^a n c o u g i² n f
k i c | u^a i q u u l² v u | v̄ u^a t » n^a n c n̄ d c p c w f q o^a p { q u v g t o g r² u m Ā^u . i c | /
f c u^a i k v e j p k e k g n h e n̄ v̄ g r e k n 0 C u | 3̄/ k g u² i j g l c | g n u² x d g p 5 6 v̄ t /
u w r v e u c v c n q | q w 0 M p u d d g l c r̄ u l^a o l g r p v² n g p { g p g o g m g f g w 0
C U w r t c w p k x g t u k c u g u | o² l² v M r g d g n d g t i v̄4 d d f | d g p o g i x k^a i f |
v q w c 0 G p p g m n̄ k r f² u² v c r g i p g i g l g d d . f g g i { Ā^a w c n c r g i o c i c u c d d /
t g p f h e r c f c y c m r̄ w c 0 G | | g n c n e t v d k v u f c p k c | 3̄u | g u o c i c u c d d /
t g p f w f q o^a p { q u u | g t x g | g v g m v e t x u | g t g i { Ā^a w o n̄4² u² v 0 T² i g d /
d g p g h e r f c v q v c | g i { g v g o g m² u c n e f² o k m r e v t k e t e^a r k u g i { u | g t u^a i /
i g n r̄ w̄ m g r 0 C | Ā x k u | q p { q m c | q p d c p u q m e n d q p { q n w c d d c m u g o /
j q i { c t² i k g r k p² |² u k o » f o g i h e r g i j g v p g 0 C n̄4 r q p v k d Ā^a q n t^a e k u q n e v
x^a n e j c v f g p g o o k p f g p 0 G p p g m k u u | Ā^a m² i g x c p o g i h e r g n n q r t q t^a /
e k u n k i² u | f² u t g 0 G | v c f p^a c U w r t c w p k x g t u k c u . o k p v n q t u | g t e u Ā^a e u /
u | g t x g | g v F 0 M r g d g n d g t i p g m² r g v² t² u g^a m e p f » c p c | v u Āi v e . j q i { n q t w p m
e c p c i { g i { u² i g m c o c o o w l p v² | o² p { g m k f g l g i 0

G n u | 3̄ v c r̄ p c m Ā^a n̄4 f k o c i { c t k p² | g v g n t n² u c o c i c u o x g n /
u² i e² r l c k v u | q n i^a n̄ 3̄u | v̄4 p f | c n t » n d g p { Ā^a v q w v̄4 x² p { l c x c u r e v k p f q n q /

if^u dcp hglk nk c p{kx^a pqu^u i gn w kf gx^a i » gu| o² k0 C r² p{ gi c n³ k^g v/ ng| ndgp hqi n² j cw» t³ k^f gp ³ u| g0 C| w» ddk ² xu^a | cf hqn{ co^a p c wf qo^a p{ qu ² r^v t² i gddgp pgo ku ugl^v gw o² t^v ndgp f h^h t^g p^e kⁿ / f qw0 O gi p³ k^g n^g f v^g m c o² t^g v^g m x^g n^g m gi { Aw p³ k^g n^g f gw c| cf o^k pl^u t^a ek^x cⁿ u| go dgp v^o cu| v^w ki² p{ k0 C n³ r^q p^k d^A t^q m^a ek gi { o ci^a dcp o^a t pgo wf o gi h^g r^g p^k c| A^l cdd. h^g r^q n^u | qw ki² p{ gⁿ p^g m0 U Am² i r^g p^g p^g v^g j^a v gi { wf » u^q n^d » n n^w n^r q^r k^s m^v u^q n^d » n ² u cf o k^l u| v^c v^k gt n^l n ³ u| g^a n^f | q^w qⁿ { cp n^q r^q t^c v^k u| g^t x^t g. co gn{ c o k^l u| v² tkwo h^g n^A i { g^r g^v c^r w ³ pⁿ q^u o^a p{ | c^k A^q p r² v^a gn c wf qo^a p{ qu ki c| i c^v u o ci cu² d^t g^p f v^g p^k x^c » k0

G^p p^g m c n^q r^g i k^l n^u n^q r^q t^c v^k u| g^t x^p g^m n^k c^r n^f v² t^c c| gⁿ u r² u/ p^g m c I { l^g o² p{ gi { g^v g^o o gi c^m u^v v² v v^g n^k p^v g^w g0 V^q x^a d^k c^m v² u| gⁿ p^g m u^a p^c c V^g t^o ² u| g^w f^q o^a p{ k² u c| .. u| v³ p^f v² p^a e^u q⁰ F^g o k^f g| p^g o r^g w x^q r^p c g^r i < c o k^l u| v^t o² i n² v qⁿ { cp v^q x^a d^k u| g^t / x^g l^g v^g i q^p f^q r^v gn co gn{ g^m u| k^p v² p j^g n^g { g^v h^q i n^e c^m x^q r^p c U^w r^t / w^k x^g t^u k^u / d^c p0 C| gi { k^m r^g w x^q r^p c| Q^t u^a i qu U^g m^g o wf qo^a p{ k V^c p^a e^u. c o^a u^k m c| Gi { g^v g^o n³ k D^k q^w uⁱ 0 C U^g m^g o wf qo^a p{ k V^c p^a e^u o gi c^m u^v v² v ² r^r Aⁱ { o gi h^g r^g n^u p^u i t^g u^u w^u gn | v^g x^q r^p o gi . o k^p v c^p p^c m k^f g^l p c V^g t^o ² u| g^w f^q o^a p{ k² u0 C| Gi { g^v g^o n³ k D^k q^w uⁱ r^g w x^q r^p c | t^a » m0 C d^g l^g n^g p^v u c^m c^m ^a x^c n c o k^l u| v^t j^c pⁱ q^l / v^w c. j^q i { c v^t x^g v e^u c^m h^q n^u | c^v q^u c^p n^f x^a p^l c o gi x^c n^u f² c^p k0 U^a o q^l v^q w^t t^c k^u j^q i { c o gi x^c n^u f² u p^g j² | u² i gⁿ d^g h^q i Aⁿ ³ k p^l0 t^l ||

M² u dd A^d » n p{ k^c v^u | q^w g n² t² u^t n o² i r^g f^k i c d² e^u k Cⁿ e/ f² o k^p v^t v^q w gn c^f a^u d^c p0 G| c^m e^q o o cⁿ r^q p^v q^u c^d d^c p n³ k Aⁿ f^l c c U^w r^t c^w p^k x^g t^u k^u j^k c^v u² v^c hⁱ { g^r g^o o gn n^f | ² t^p ² c v^c p^u | cⁿ q^m ² u v^c p^u | ² n^g m v^t x^u | g^t u² v^q u² v² v c| gi { gu h^u n^q r^u i m gi { g^v g^o gm n³ k ³ v. n^g l^f g^o ² p{ g^l p² c u| A^m ² i gu² x^a n^v Aⁱ v^c p^u | ² n^g m k^p v² | g^v m i { l^g o² / p{ g^m r² v^u f² u² v u c p^g o | g^v n³ k u| g^m o k ² t^l p^v n^g | ² u d^g p o k^p vⁱ { c n³ / r^q p^v q^v c^m u^q w⁰ C p^c i { q^d d gi { u² i d^g p j^g n^g { g^h qⁱ r^e » ³ u| v³ p^f v² p^a e^u r^g f^k i gi { u² i gu ² u ³ u| j^c pⁱ | c^v q^u k^a p{ gⁿ x^g m c^r r^l p h^q t^o ^a n^a c l³ v. c wf » uⁿ r^l | ² u0 C v^t x^g l^g gw gi { g^v g^o n³ k d^k q^w uⁱ p^c m m^A ³ p o² i c| c h^g r^f c^v l^w p^c. j^q i { c v^c p^u | ² n^g t^g o^a u^f h^q n^u | l^g r³ k ³ p0 M^g d^g n^u d^g tⁱ o o k^p v c| g^f f^k i l^g n^d g^p ^a n^c p^f » c^p o gi hⁱ { g^r j^u w^A m o p^c i { d^e t^a v^c x^q v c| ³ pⁿ q^u o^a p{ | c^k gⁿ x^p g^m f^g w^f v. j^q i { c| gi { gu gⁿ l^k i g^v r^v c^w q^p » / o k^m m^A ³ p ³ u^g p c n^u g^d d v^u v^g v^g n^d g^p. n³ p³ { g^p ^a v^c r^e n^w j^c v^c p^c m p^g o / n^f x^a p^c v^u m^k m^t g^p f^u | g^t g^m i⁰ G² t^v h^g i qⁿ { cp g^u g^v n^d g^p. co k^q t c o k^l u| v^t p² | g^v u| g^t k^p v c| gi { gu n^e t^q m t² u² t² n n^c p^f k^a n^v l^g r³ k^g m p^g o h^g r^g p^g m o gi c n³ k^g v^g m ² p{ gⁿ p^g m x^c i { j^c ² t^f g^o g^u g^d d wf » u^q m hⁱ { g^o g^p n^f x^A n o c^t f^v c^m p^c i { h^q p^v q^u i A^o ^a u^f h^q m^A l^g r³ kⁿ / u| g^t x^g r^g p^g p^g c| gi { g^v g^o n³ k d^k q^w uⁱ. l^g r^g v^g r^g i v^c p^a e^u0

G| c j^c v^c m cu wf qo^a p{ r^q r^k k^r e^h e^r j^g n^e m^w x^a tⁱ. co gn{ p^g m

c xkfi p2rgk jc 2rgtg ngn euqf^al^atc l^atjcwcm xqpc. uqmcen pci {qdd/
o²tg^v xqmx ugo jqi { gi {n³pp{gp o gi xcn»uwj cvqw xqpc0 P go
euqf^atj c^vwm jqi { c| qu|v^am wf»uqm cⁿkm gn w t²u|rgvgugddgp nktgl/
v²gw gni qpf q²u^v d^ao w^awcn u d^kqp{qu k^ki {u²i i gn j^cni c^wn0 Mrg/
dgnudgti o ci c o gi xqnv i { | f^xg. jqi { gni qpf q²u^v gl c^merqo o cⁿ ku c
nku qtu^ai u| ^{Am}2i r^gv^lg| g² u ucl^avqu xku qp{c^lg| ngm o²tpk0 Vku/
v²dcp xqnv xrg. jqi { gi { gm²tc h^gij m^eteqⁿ» eucm u²rgugdd p²r/
t²vgi gm i c| fcu^aik g²gl²pgm² u gi { ngm u| qe^k rku vci q| qw^ai ^A v²tuc/
fc²qo pcm v^cl^atc 2^r ^{Ar} g² | t^gl²g c| v ku. jqi { p^a n^wpm g| c| c^rer o²i
pgo g²i u| k²tf0 Fg o gi xqnv ctt»n i { | f^xg. jqi { c o gi h^ggn n^wAt/
r^qrk²nc g| v c n²tf²uv o ci^a»n o gi q²flc u jqi { c h^gij m^eteqⁿ c^rw c
v^cl^a 2^rrgp c j^gn{gu k^ap{^A n^wAr^qrk²nc n³g²gl²o²p{gn²pv o kp^v/
gi { o ci^a»n o gi u| k²tfw0 G²tv w²q²v²g²pk^a m²q²pk o²i c^mqt ku.
o k² p o^auqm u| ^k2^v v^cl^a p c tgo²p{v²g²pu²i. nkij kv²i u| qtqpi c^wc0
f^mckv o^at pgo w²v^c o k²fp² v²tp o gi xcn»u²cpk0 Fg pg c| v n²t l^{Am}
v²rg u^ao qp. co k gm c^tcf^v c| v euqf^arw^m co kv euk^an# Co knqt l³v.
l³h²to^a p o k²fp² tqo q²ndcp j²g²tv u j²p{q²w c| gn²pv^ai o²i c|
²pk²nc^a u| q| k²0 Co knqt gm²gv c i c| fcu^aik xk²i n²ku h²l²v²cvqw
wi {cp dgpp²ngv. fg o^at d^kqp{qucm xqnv²pm c j²k²dp. jqi { ²n²pm
²u ²pk h²i v²n0 C n^wAt^a rku n²tf²ud n r²v²tq²d²o^av euk^anv u co knqt
c n^wAt^c t²x²p h²rgo g²v dgpp²ngv. gi { ^Awcn ²rg²t| ²u²ngv ku o gi/
u| k²tf²q²wc0

Cttc ku i qpf q²mx jqi { c w²qo^a p{qu o w²nc m²u o gi d²eu²u²g
v²t²p ku dg²v| | g o x²v0 Gn v²l²gu²v² v²w c Eqtxlp/tgpf c^rer ²v/
u²tc. c| qm u^ao^atc. ²nk² c ock r^atc^vcp²wn pg²| k² ndgp c o ci {ct
o xgn f² u| kp²v²pgm h²pp²v²u²tv² u go g²u²tv² h²q²» u| g²ng² k o w²/
n²d»n n²o ci cun» v²g²u²i i gn² u t²gp²n²Ar^k q²ccf^au²en x²g² km nk t²u² ^A/
n²u²0 C| c^rer ²v²uk q²no^a p{v c| ^anc²o h 3; 520 q²m»d²t 330²p ²v²c² c²0
C h²to^a rku o gi c^ren²u 3; 530 h²dtw²t 450^ap xq²n0 C n²v²pv²ug²m e²r/
l^ad»n t²gp²g²u²tg^a n²v 34 Eqtxlp/n²pe. 82 Eqtxlp/n²u| q²A² u 34 Eqtxlp/
f²u| l²g²x²p{. c| w»ddk n²v²i»t²lc m²At²4²l²gm u^ao^atc0 C v²u²v² v²il²ck
²x²gp²v O^av^au p²er²lc v²l^ap ²pp²rk n²q²o^atc i { ip²gm ³u| g u k²g²pm²
c| gi {km vci o gi go r²ng² km J w²{cfk O^av^au»r0 C u²tr²g²cxcw/d²g²u²/
f²g²v3; 540h²dtw²t 450^ap o ci c M²gd²ndgti v²tv²wc0

D²h²g²l²v²Am M²gd²ndgti w²qo^a p{r²q²rk²nc² v²x²ng²p{u²i²pgm² u
v²tx²g²l²gm x^a| n²v²u k²o g²v²u²v0 C^rer l^adcp x²xg k²g²vt²q| p²m c| gi {g/
v²go gm ²i {g k²0 O²k²gn c| q²dp² c| gi {v²go k r²tq²d²o²c x²q²pc²v²u|^auck
v²4²d²h²g² g²i c| pcm u M²gd²ndgti m²At²3²u i q²pf²fc²n n²re²u²q²nc ³u| g c|
gi {v²go k n²tf²uv c x^a t²q²h²l²g²u²v²u ²i {²xgn g| v c n²v r²tq²d²o²c n²v²
m²At²3²u h²g²l²g²v²dp gi {g²u²x²g²v²i {c²rl²w0

X0

C euqpnē qtu^ai pcm o gi ngnw qfcpk c o gpgm^ān r q|uqp{k²u nq|ux^atk u c o²i nk pgo²r^āgw fgdtegpk gi {gvo n^ātf²u²0} ô Mrgdgnudgti c o gpgm^ān gi {gvo gm hppvt²uc o gngw hqj n^āv^an^āu0} ô Jcte c ēu|gpv vct²nqur^ai n^āxci lck^a gmpp0 ô C n^ā4x²ngo²p{^ay cpi qn^āuc0} ô C|= gi {gvo gm o kpv mwcw/ k²v²|o²p{gm pci {hqvqur^ai Ā u|gter gv v^āngpgm dg c pgo|gk²ngvdp0} ô C r²euk gi {gvo grj gn^āg²ug²u vqx^addk uqtuc0} ô C u|gi gfk gi {gvo nk²r^āg²ug0} ô Vgtxgm 3;35/d»n c fgdtegpk gi {gvo l³xgpf u|gter²tg xqpcv^ā»nci0} ô C fgdtegpk gi {gvo k²r^āng²ugm hqn^āvc²uc0} ô C d²wfcr guk w^āqo^ap{gi {gvo jgn^ā|g²v0} ô C| gi {gvo k j cni c²m r^āv^āo^c2u c|²tvgr²ku²ik o w^āncp²m^āku²i} ô ěC fkr^āqo c pgo dgr^ār lgi {i0} ô C ic|fcu^aik²u u|qek²ku hgn^āf²u pgo w^āq²w r²uv v²cvp^c m^āw^āku gn tgv²4²ugr²0} ô C pwo gtwu er²w^āu n^ātf²ug0} ô C fl²ku|qek²ku k²v²|o²p{gm nk²r^āg²ug0} ô C| gi {gvo k n^ātf²u²u c x^atqur qrk²nc ner euq²vc0} ô Mq^āddk x^atqur qrk²nck v²p²w^āa²p{qn0} ô D²wfcr guv gi²u²i v²gr² hgn^āw|cu²v²u²pcm n^ātf²ug0} ô Mrgdgnudgti^a n^ānci qu D²wfcr guv²ng²gu²i g0} ô C fgegp²ctk^aek² u^āi g²ug0} ô C| gi {gvo gm o kpv c| gi²u²i gu fgegp²ctk^a|^aek² gu n^ā4 g²0} ô C m^āncv²ctqo^ap{qm v²txg0} ô C xk²nk x^atquqm m^āw^āku Āi {g²pgm i qpp²q^auc0} C| 3;520k p²r^āu^ao r^āf²upcm c x^atquqm hgn^āf²u²tg xqpcv² nq|» cfvc²0} ô C j^atqo xk²nk gi {gvo kx^atqu xku qp{nci qu gn tgv²4²ug0}

Mrgdgnudgti o kplu v²u²i²v dg²4²4²vg c o ci {ct gi {gvo gm hpp/ o ctf^au²2²tv hqn^āvc²q²w u|cncf²cvcp m^āfgrgo 0 J gn^ā|g²v pgo xqiv n^ā4pp{ 0 C| qtu^ai o gi euqpn^āuc w²p n^āv gi {gvo jcl²mcncpwn o ctf²v^c m^ānq|ux^atk²u c r q|uqp{k0} C jcto cfkm c fgdtegpk gi {gn tg o²i pgo lwq²w gv c²0 Eucm c d²wfcr guk w^āqo^ap{gi {gvo. c o / gi {gvo²u c pgo t²i gp hgn^ān^āq²w n^ā4ic|fcu^aik net o n^ā4j g²wgm v²dd²/ngx²udd² |cxtcvcpwn jc wi {cp c| c²m^ātk p{qo qt²u^ai. ng/ tqpi {q²m^āi n^ā4gr g²wg ku²guo k n gi {^ancn^āp dgu²2²pk r²g²vgw0 J q|^a/ l^atw²c pgi²|u²i gm hqn^ā|^au²q|. j qi { c v²4²vgk qtu^ai eucm ngx²u/ ugn c|³4u|gqo r^āu gn w^a n^ānc²q²wc hgn c fgdtegpk²u c r q|uqp{k gi {gv/ o gv0} C n^ā4x²ngo²p{v pgo xqiv n^ā4pp{ ctt²n o gi i { |pk j qi { c euqpnē qtu^ai dcp o k²gp gi {gvo Āp²ngv hpp n^āgm v²cvpwn0} Mrg/ dgnudgti pgm c| gi {gvo gm r²v²2²tv ngo²p{ jcte²q²v ngnw x²k²pk0} Fg h²ng²g²u^amc0

C m^āfgrgo x^ancn^āu^adcp n^āu²i v²ngp^ān xqiv²|gm k grgo ku^c

Mrdgndgti o clf pgo dcdqp^aucp Äi { 2t|gl v. jqi { c| ägi {gvgok i qp/ fqcw eucw xgu v²ugi o kpxgi { gn tg xgp² a tp {2 nfv c pci { o ci {ct rgt grxgu v²u²pgn0 Gi {gvgok pm uqtu^adcp n¹wc u|ko dqn^a rxc c o ci {ct uqtuv pgo |gvÄpm gi²u| tci knwo^av jkwt^apm o²n¹u²i gu u|qo qtÄ u¹a⁰ ëJ cvro cu cnet^auqm²u gt hgu v²ugm co gn gnpgm c o quvj c uqtu o kw plpeu hqn¹cv²uwn0 .i Fg o quv c| gi {u|gt hqn¹vcwpwm ngm co klg dgrng¹f vÄpn0 Ogi ngm o wcvpwm o ci wnp¹cm²u o^auq¹cm jqi { ugo ok dcnqtu. ugo ok euc^af^au pgo v³4jgv o gi dgppÄpnxv0 Ngi {gp dl¹cm wpm d^avqtu¹i wpm gt pm ctte ku. jqi { c o w¹fv cni¹t Ätc ng¹f lÄn0

Gi gp c| 2t|gro k u|kpv dcdqp^au o cneur^aiqp n¹kÄn c| gi {gvg/ o gm hppvct^vu¹pcm i qpfq¹vc o gn¹ a¹nv o gi hqpvq¹ud>n grxk u|go / rqpvd>n ku0 N^awm o gpp{k¹g o gi xq¹v i | f¹xg ctt>n jqi { c| cfqw jgn¹|gvdgp lqi clpm xku|cu|gt²u²tg gi {gvgp o gi o ctefv hgi {xgtÄpm c m¹wÄ^apn0 C jcteqv x²i ki cnetvc jcteq¹pk u tgu ngvgw cw>n jqi { gi { c¹mqtc hgi {xgtv ngm¹gp grxgu v²gpk co g¹mq^av g|gp c v²tgp gi { xci { n¹v gi {gvgok lgrp¹0 C| u|go²dgp o k¹fp gi {gvgok c o ci {ct i qpfq¹vc gi {/gi { gt f¹o²p{g xq¹v gi {/gi { gt u¹ o cu|rqpv co gn¹gp n¹dwpnev o gi xgw. c v¹kpqpk tgp¹u|gtv o clf n¹go grj gvlÄm uctn¹k/ d>n0 ë! p o k¹fp m¹wÄ^aku k¹v²|o²p{j|g| c x²i u n¹ki tci cu|mq¹qo 0 Tci cu|mq¹qo c| wqn> »xq¹f^aj| gi { rlek fwp^apÄrk hcnw¹dcp ku 0 0 0 J c gi {gvgok gv xgu v²p²m c¹mq¹t c| ngppg c u|gtgr go. o k¹v c¹ppcm c v¹pi gtpci {pcm cnk pci { gi {u²i gv. ftgcfpqw jxv xgu v²w0 | p r¹gk¹ c o ci {ct m¹wÄ^a2tv hqn¹vcwv jctedcp pci { gi {u²i gv00 gi {gvgok gv xgu v²pkpgo cnetqn0

Rgfki n¹pp{gp^an¹j cvq¹w xq¹pc c o^aukm c p¹erqu¹dd q¹fctc. o gtv ô g|v o ci c ku v³4du¹34 j¹cpi uÄn¹|vcô pgo xq¹v c|. cnk c o g¹pmÄn¹ gi {gvgok gm hppvct^vu¹v lcxqu¹nc0 U v o²i o k¹ku|vtu²i g gn w det^avk n¹4dgp qn¹cp p{k¹rcw¹|cvqnev v¹w. co gn¹gm gr¹tw¹m jqi { h¹hqi^auc pgo v¹ngugp gi {g|gw c hppvct^vu o g¹ngw^an¹uv h¹i r¹n> jk¹cv¹qu n¹434 n¹xgr0 C¹mq¹t o²i jcl¹q¹w xq¹pc ctte. jqi { n¹v xci { j^atqo gi {gvgok gv. n¹i cif¹dd^avo g¹pv¹gi. gi {g¹ugp¹gn0 Co kn¹t c|q¹dcp o^at h¹gn u^an¹udcp Äd>n x²i ki i q¹pc c rtqd¹o^av x²i n¹i g¹gp c v¹ng¹u gi {gvgok / hppvct^vu o g¹ngw f³4v³4n0 C o^at n¹u|gp v¹fv n¹v³4x²p{g¹ngv. co gn¹gm c o g¹pmÄn¹ gi {gvgok gm jgn²v ku n¹gn²v¹m o k¹fp k¹i cfq¹u p²mÄn c n¹i pci {qdd gt²m¹gn ki {gn¹|gw x²i tgi clv¹pl0 M¹cr>tc l³4v pgnk c| Ä0 p0 ëu v¹ng¹u|k¹ u|qrk¹ctk³u¹ grxg< c| Ä o k¹ku|vt hqn¹vcu¹c gn f¹gk o x²v. pg d¹q¹vc hgn R²p¹gn²r² x^au|pcn¹pv c|v co k gn | n¹i gn¹u|Än0 Ngi {gp c v³4x²p{dg h¹i r¹n k¹v²|ng²ug¹ngm o ctefv cpf>u¹i w^am^amc¹/ f>u¹i w¹n0 ëJ c gi { pgo |gv x¹ro kv v³4x²p{dg v¹ c| dl¹qp{qu h¹nki

ul gpvñ Co knqt l³w. o²i o gi ugo ulª tcfv c rqt|» c|ª mco h cñ/ ƒªª uª p0 Hkxqksª u ngw xqpc. jc kn{gp nª4 Åm² p{gm nª4 ³w oª uv eukª n o kp v jqi { o gi r t » dª ñc c vª4 x² p {pgm ² tx² p {v ul gtgl pk0 J c c| gmgpgñ| l²v eugrgm| k c| ëw» nqt ô ƒªlc ô o² nª p nku » tj cwc xqpc euqpvckc cv. o kp v qñ cp go dgt² v cnk pgo ² tf go gu ctte. jqi { j c| ck hª4 f dgp p {w i qf l² nñ P² j c ul kp v g o gi hngf ng| km ctt » n jqi { cñr lª dcp x² xg oª uqm vª4 x² p {²² tvª m v nk c mª f v² ttg u xª mñlc c vª o cfª uqnmñ ² u ntkkñ mñen ul go dgp c vñgu hngñ u² i gv r g f ki wñlf qññ r r gp Xcuu L » ugh xqñ c o gpgmª v gi {gvgo gñt n ul » n» vª4 / x² p {lxcxuc v² tv r qñkñ kñci hngñ u0 ë Gi {gvgo / o² ulª tñ u ² u mñwª / h ñ p {i eƒª o gn ekmgv ƒª u p {kv ukucmñ x² f k gn flg kp v | ngf² u² v. o kp v c c uclª lc ngpg#

l | t | g r k d gª n ƒª q wª iª t c o w e v c | k u . j q i { r q ñ o kª l d c p u l q ñ uª / w n g n² t g p c v ñ g u h p p v t v u g m g p | k x g n u l g o d g p c m e r o k c i p c i { q p n g o ² p { j c p i q n e v Å v o g i 0 M Å ð ³ u g p n g u g t u l x c n e v v e r ñ n c ë u l g p v e n e t² n q u uª i i n x c i l c p c m o g i d² n { g i | ² u² t g 0 ë P g o k t k i { n g o c vª4 v² / p g m k h n g n u² i² v c p p c m ô n kª n v h n g i { c m e n q o o c n ô c n k p g m l x c u / r e v² t c c o c i { c t m w wª t c g i { k m ñ p { g i g u k p v | o ² p {² j g | j q | |ª h q i p c m p { Å p k 0 O g t v n g j g v j q i { c | k n g v n ñ r x k n g n Å t p c m g u g v g i c | c u l g / t g p e u g h q i q u l v ñ t² u l Å n l w p k j q i { c vª4 v² p g g o o g i h n g f n g | k m t » r . f g c n k k n { g p v n g t g u l v Å n h q i x k p k c t t » n c vª4 v² p g g o p g o h n g f n g | k m o g i ² u c p p c m c h n g n u² i² v c o c i { c t vª4 v² p g g o g n w p g o k t k i { n g o 0 M Å ð ³ u g p g m g u g t ƒª g w g . j q i { c d w f c r g u k g i { g v g o p² jª p { v pª t c k u p { k xª p q u c p j c p i q l v e v c t² u l n g i g u o g i u l Å p v g² u u l Å m² i g u u² i² v 0 M r g d g n u d g t i p g o x q p l c n ñ u² i d g l » j k u l g o u² i Å n g v ² u u lª p f² n e k m v u l v uª iª v f g c l² t v c n e k l w n e v c m w wªª t c p c i { q p x g u l g f g m g u p g m v e t v c 0 Tª o w e v q w . j q i { ² t x g n g v o c l f oª u q m g u g v g i c m w wªª r k u vª4 g n x² u g m v Å n q w f² f g n i g v² u² p g m d k q p { ƒªª uª t c j c u l pª n j c vª m h g r 0 P g n k m u l » n» xª r u lª d » n n e u g p f Å n x c r o k h e p { g i g v² u / h ñ g . x c i { n g i / c ñ d d k u c | g m g p v o c fª u t c n ñ u l g m lª p v c n e t c v 0 ë C f g o c i » i k c . j c g i { u l g t g l v l g n u l » n ñ p v h e m e r l c . p g o h q i m Å ð p d u² i g v v g p k g i { g v g o ² u g i { g v g o nª4 ³ w 0 C h e r g u n g i g u u² i p c i { q p t g r v ƒª x c r o k ô m Å ð ³ u g p m w wªª r k u v² t g p 0 C h xª t q u v g i {² d n ñ p v u g o l » u l g o g n p² | x k f² m r r 0 g i { u l² r p e r q p o g i u q n e n j e v l c c d w f c r g u k g i { g v g o rª t w j c o q u v c p u l² n g k 0 0 P g lª v u l v p m c v | | g r 0 C n e v q p c k n g u l g t g r² u v oª t tª p m n ñ p { u l g t ƒª g w² n 0 X² i | g v g u n g p p g . j c g l v m w wªª r k u n g u l g t g r² u nª4 g v p² 0

C n ñ t f² uª m c p f » ² d t g p v e t v u c o² i c | v c n ñ p { g m g v g p u² i g v k u l g n p v g w g . j q i { M r g d g n u d g t i c | g i { g v g o g m ² t f g n ñ d g p p c i { q p i { c m / t e p n ñ p { v g r p x q n v q n e v h q i p k u ƒª { c n e t x c / c n e t c v e p w n e d d c c u l ƒª p d g n g t Å v . o k p j c ² r r g p g | c r q p v h q p v c e d d n g p p g u lª oª t c r r 0 c p² r /

qmc^vup^ar0 ~i{ o 2i n³pp{gdd xqrv xcn»u|p u³gpk xgrg u|go dgp c|v
 c i{knqu x^afcv jqi{ c p²r qmc^vuv c o ci cucdd mw»Atc ngf x²²tv
 grj cp{ci qrlc0 M²u dd x²i n³gi gup t^al³»w jqi{ c r qnk³nek² r²gvdgp xcp/
 pcm grngphrgm cnkngv ugo o kgn ugo r²gi gv n³gr²i³gpk xci{ jcmi c^vutc
 d³l³p0 Grk³vg c|qpdc² o 2i ë»x^ati qw c o gi²t²v u w³p0 Fg c n³p{gu
 jgn|gv grng²tg ugo u|Äpvgw dg c| gi{gvo gm rwd³leku v³nek x²f gm²v0
 Vcn³p o kpf gpp²n lqddc² n³k^apv. jqi{ c n³4 x²rgo²p{² r r gp gddgp
 c| gugvdp o ³/₄ ²lg uqtcnq||²n0 Pgo jkvg vi{cpku. jqi{ o ci c.
 cn³t c| ²tfgrngnngn c rtqhgul qtqmen vcpÄi{k ugi²f u|go²n|gwgn
 ud0 ³/₄u|ghqi xc n³r gu rppg e²nv ²tpk0 ëMw»Ätr qrk³n³pm eucm cmqt
 r²gi gv ukngtgu. jc mw»Ätr³4²p{Äpm hppvct^vu^v c| gi²u| qtu^ai c o ci c
 u|gpv Äi{²pgm xcnc 2u c pgo|gk n³4 jgn|gu²u| r²pf³v ngtgngk c pci{
 o u|qii^arc^vdc^a n³Äc ²rrÄi{. o kpv c u|gtdgm ²u eugi gm c tqo^apqm
²u i ³/₄ ³/₄ Äm nk³4 r²ngugf²uugn u|go r²rk³ c|v c n³w²i vgrpÄn jvcw cu
 o wpi³v co gn| g hcvc²dd mw»Ä^anpcm hngpf³ug k^apv qn|cp gt /
 xgn ²u n³4gvng|vgu²i i gn hqn|km jqi{ cw»n c v³ti{kciqu u|go r²n
 pgo xqj cvc o gi grkuo g²u²v0 G²tv ³/₄Än cpp{kc. jc xcrcnk Ucw»w/
 d»n Rcw»w|u^a. gngp|²nd n v³o qi cw»x^a rgw0 U o 2i c v³o cf^auqmen
 u|go dgp xcn» ²t|²ngp{u²i g ku eu³4mgpv. jc ²u|tgxgw. jqi{ c v³o cf^au
 o ³/₄ ³/₄ v³ti{u|gtgvv tglv|kn0 Co knqt r²r0 R²eu x^atqu^apcm gi{km u|q/
 ek³rf go qntvc n³r xlugn lg u|go²tg xvgwg. jqi{ Fgdtgegpv Dgv r²gp
 ngf x²²tv. cnk qw n³r xlugn xqrv U gi gf gv r gf ki. o kpv c| gi{km u|gi gf k
 o cpf^aw0 dkv³quc v³o qi cvc R²eu tqx^au³tc. crrl^adcp x²xg o 2i c|
 ki c|u³i wcp v³o cf^auv ku ngf xg| u|ko r»o^apcm wtvqw. ëo gtv g|
 ku o wcvc c| gi{gvo k i qpf qrv f kfcw cu vgtlg²u²v0 Cpp^an ngx²udd²
 wfvc o gi²vgpk jc cmw³kc i c pci{dkvqm gi{/gi{ n³r xlugn lg ku
 nkqj cpv c| gi{gvo gm grngp0 G|gm c| wcm pgo wf³l^am jqi{ P²o gv
 qtu^ai dcp r²r0 c| ci tqn³o lck ²u ci tqdkn»i lck rcdqtcw»tkwo qm ukngtgu
 jcteqv x³kpcm c o g| ic|fcu³i qv uqtxcu|» ngf xg| vgp nuplwpn»Äc
 grngpÄ Fg cn³t v³o qi cw³m o^auqm cn³t v³o cf^vm c o ci c jctev
 x²i ki jcteqnc0 Kio²vgo < c jcte pgo xqrv n³pp{ # C n³tf²u o ci c
 ugo xqivxcw kvÄn³i qucp gi{u|gt 0

C| ³Äu|ggo r²unqt c n³v o gpgmÄv gi{gvo vcp^atk nctc o^at
 jKp{qu xqrv c fgdtegpk gi{gvo² r gfk i o 2i gi{^ancr³p pgo xqrv
 vrdgugm o qpfjcw0 Äi{ hgrgtÄv u dk qp{qu p²r u|gt u²i tg vgw u|gtv
 c| c i qpf qrv. jqi{ c j^atqo gi{gvo Fgdtgegpdp gi{guÄr³p0 C|
 o^at qr w³ku³pcm xqrv o qpfjcw». cnk o 2i gi{ vx^addk xk²nk gi{g/
 vgo tg i qpf qn0 M³4 dgp o gi o q|fvwcm c|qm c x^atquqm co gn|gm
 gi{gvo gv u|gtvgwm xqpc o ci wncm dk v³u|kcpk< gnu uqtdcp U gi gf
²u R²eu0 Crrl^adcp x²xg wfqo^ap{r qrk³nek u|go r qpvd»n o 2i pgo ku

vku|v' | »f qw c nřtf²u. co knqt c| 3;43-ZZX0 ve. pgo wqnu» uqtdcp
 vřp²t| gm k u| go r qpvd»n o^atku kp^v| nřfgw c nřq| ux^atk²u c r q| uqp{k
 gi {gvo gm gřj gř|g|²u²t r0 C|²u| qnqnev c| kp^v| nřf²u v^ao qi cv^ař^atc
 Mřdgnđgti nřu dd f qri q| v nk co knqt c nřtf²uv x²i ki i qpf qřxc.
 c v⁴x²p{ i {c nřtřevkx²i tgi cl^vř^avu| qti cřo c| v⁰

C nři pgj gl gdd xqřv c p p m d k q p {ř^vuc. j qi { c euq p n e q t u |^a i p c m
 v²p { r g i u | Ā m² i g x c p / g p² i { gi { g v o t g 0 C v⁴ v² p g k q t u |^a i d c p n⁴ x g v
 r p Ā n c |³ u | g q o n² u v o g i g n | k f n k i n² v g i { g v o o n⁴ x³ u 0 K c |.
 j q i { g l v n g x² u p g m v c i n² m u c |² t v^a n² q w c m h e n n² v Ā c v 0 F g c e u q p n e
 q t u |^a i p c m v c i p o² i k u g ř i r p p p g n g w A M ř d g n đ g t i c n ř i n e v i q t k /
 m w c d d p g o / o g n x^a n c u q r 0 C o q f g t p g i { g v o p g o c |. c o k p g m c t² i k
 i g p g t^a e k x k u u c g o n² n g |² u g k c n r l^a p i q p f q r l c 0 G l c p g o | g f² m c p p c m
 k f g l² p p c i { q d d t² u | v c v Ā u Ā Ā n v d w f c r g u k g i { g v o g p u l g t g v g v c u | /
 v c v c k c o g n g m c n ě j g v n ě i t q u u | c d d c m x q m c n 0 V w c l f q n r r r g p
 q n c p g o d g t g m h q i n c p c m c n ř t f² u d g p^a n² u v c n k m u j c o o q f g t p g i { g /
 v g o g v p g o n² w c m ě c n k m c o c i w m h c v c n^a i^a p c m k f g l² p c d w f c r g u k
 g i { g v o l q i k x c i { c ; 2 / g u² x g n d g p c p p c m q t x q u k h c m w^a u^a p u l g t | g w
 v c u | v c v c k n e v c n e t l^a m^a n c n² p q u | c p k x c i { g l g n g v c f q i q n e v t g p f /
 l² p x c n p c m v c t v^a n 0 G l g m c | v j k u k m j q i { c | g i { g v o u | Ā m² i /
 n² r r g p o c o o w k p^v | o² p { . v | g l g t . x c i { c p p^a n k u v⁴ d d j c m i c w x c n
 c n k m p g o ě j c m i c v c n i . o g t v g i { g v o t g l^a t p k p g o p c i { q p² t f g o g u
 e u c m x k u i^a | p k r t v^a d^a p c n 0 G l c n² v j^a t q o² x v | g f g n v k n² r o k p f g p .
 e u c m p g o p q t o^a r k u c g l w c l f q n r r r g p c | g i { g v o p g m o k p v k p^v | /
 o² p { p g m c | g i c l w f u c 0 C j g n | g v² r r g p c j c t o c f k m² u p g i { g f k m g i { g /
 v g o n² u g f g r o g u h g n n² q u c n² x g v n g l v² d g p t q o n w g n g p p { k g k g u v
 o » f q p 0 U o q u v g l v c v q t | n² r g v x² k p^a n l c c n⁴ x² r g o² p { x k u u c u
 j c u | p^a n l c h g n² t x n² p v c | g i² u | u² i g u g i { g v o k i q p f q r v² t x² p { g u Ā ř u² /
 x g n u | g o d g p 0

Ct»n u|» ulpeu. j qi { Mřdgnđgti c u|^ao qm»n o gi o^ao qtquf xc
 o g p v n v⁴ d d h k u n q i n v² u g i { g v o g v c n e t v x q p c 0 C v p Ā i { k k p^v | /
 o² p { g m t c e k p^a r k u g t g p f | g² u g p g n k h p q u c d d x q r o k p f g p u |^a o p^a r 0
 ř / r r 0 x c n² u² i c n l f l v p g n k c j^a t q o l q i c n e f² o k e h e p p v c t v² u c 0 G l g n g v
 u | ř k g u g p o g i u | Ā p v g w x q p c . f g p g o c n e t v ě f c t^a | u² u | g m d g p p { Ā p l i 0
 f n c i f d e p p c i { g n g p u² i g x q r v c | Ā 0 p 0 v⁴ r g h k u n q i n p c m c o g n g n g p
 u q n u | q t g i { c | q p v c p^a t n² p { v g r p v⁴ d d u | c n q v v c p | c p k 0 C | k u g u o k v
 o² n e v c p p c m v c t v c c h k u n q i n j q l . c w f q o^a p j q l² u c v c p^a t j q l
 g i { c t^a p v 0 C p p^a n u | ř k g u g d d g p x^a m c n c c n⁴ x² r p c i { u^a i Ā g i { g v o g m
 x² f g m² v 0 O² i c | v u g o d^a p v c x q p c . j c v⁴ d d x c p d g n n Ā n 0 N g i c ř i d d
 k u g t t g o w e v j q i { i q p f q r v k f i^a d e p h g n h e n d w m e p v r r 0 c u q r t q p
 g i { g v o v g t x g 0 M Ā Ā p³ u g p u | ř k g u g p h q i n c m u | q w v c p Ā i { k k p^v | o² /

p{gkpm tcekpcrk^a r^a u^a pcm i qpf qrcv^a xcn h rgi c|²tv j qi { c o gi vnc/
 t^aqvw 34u| gi gnd n A. 2 rvgv u kpv²| o²p{gngv j q| j cuuq r^a v t g0 Co knqt
 gi { u| gt c| gi { km n^a r x lgn v^a tuc h^a r k x g v g c i q p f q r c v o g p p { k g
 Af x³4u x q r c . j c c o c i { c t 2 r v p g m q n { c p n k^a n^a u^a i c k c n k m j k c v^a u w n^a
 p^a n h q i x c p g o v c p^a t q m c m e r o k c i n e v g f t^a » n u | » i j c v^a p c m c | k h A
 u^a i j q | . M r g d g n d g t i v t o 2 n g p { c i { c t 3 4 v p h g r^a | q r c c o c i { c t
 E q n^a i g f g H c p e g / h^a r g k p v²| o²p { n^a 4 x q p c r k < t c e k p c r k^a r^a u c n
 h g n | c d c f v v k g n^a v v c p u² n g v g | g m o g n^a u | g t x g | p g j c v v k u | v g v
 d g r k v c p u² n g v c j g v k » t^a m u^a o c p g o r g p p g v² / d d g i { / n g w p² r 0
 i O g p p { k v h q i p c m g |² t v d^a p v c p k i o h | k j q |^a e u g p f g u t g | k i p^a e k /
 x c i 0 P g o d^a p v q w^a m o g t v g | c m e r q o o c n c v g t x o g i o c t c f v
 v g t x p g n 0

U | g o 2 d g p c | g i { g v g o r g i h d d n k^a 2 t k w o c < m w c w k p v²| o²p { / g a
 x c i { u g o A J c p g o . c m n q t g p g x g | j g v k m g i { g v g o p g m f g o 2 i u g o c | 0
 J c c | g i { g v g o n k^a t » r i q u x c i { c n i t e u c m c r g i h d d h g r c f c v c v p v^a u
 r g p p g . c m n q t o g r k u o g t k o d g 2 t j g v p² p m n g x g u g d d g i { g v g o o g n k u 0 F g
 g t t n u | » u g o r g j g w # C | g i { g v g o g n u q t d e p m w c v w f q o^a p { v i { c t c /
 r v^a 2 u w f q o^a p { q u w^a p r » v i^a u v d k v u f i 0 U o c i { c t w f q o^a p { v c o g n
 g | v c | g p g x g |² u v o g i 2 t f g o r k c o g n { 2 n g v k 2 u^a v j c v c c | g i 2 u | o c i { c t
 o x g n f 2 u v c o g n { p g m j c v^a u c g t g f o 2 p { g k d g p r g u l k^a t q i c | w a q n »
 v p { c k k u n q i^a k i . e u c m c m n q t n^a r | g r j g v^a p m g n 2 u t g o 2 i j g v^a p m j c v² / d d
 g i { g v g o o n^a 4 k m j c x g t u g p { x c p . j c g i 2 u | u^a i g u w f q o^a p { q u n^a 4 /
 x 2 r g o 2 p { c r e n w j c v n k j c c v j g v^a 2 i g m n h g l n f j g v p g m j c c | c t t c /
 x c n m r g i c r i d d c | 2 t x 2 p { g u^a r u p 2 o k t g o 2 p { 2 x g n o^a t g r g x g w f q o^a /
 p { q u r^a n^a t c n^a u^a A i j g v p g n 0 G d d g p g i { 2 d n^a p v v r n g u g p k i c | c x q n #
 U j q i { o g m n q t c o v p n^a v x 2 i | g w c w f q o^a p { q u^a n^a u q m u l c r q t v^a u c
 v g t 2 p . o w e l c p 2 j^a p { n k c i c f q w u^a o c f c v 0 3 : : 2 / d c p n^a 4 m^a i x g v^a u k /
 r g i d k v u f i q w w f q o^a p { q u^a n^a u w p m x q n v 4 ; 5 0 J A u 2 x o A n k < 7 5 3 0
 M^a 4 x g v g p A n c j^a d q t A n k^a 4 2 u g g n w . 3 ; 3 5 / d c p < : 5 ; . o v t o 2 u | g v g u p
 c v^a 4 v p g v k q t u^a i d c p 0 G | | g n u | g o d g p c o c l f p g o g i { j c t o c f^a t c | u w
 i q t v^a q w e u q p n c q t u^a i d c p 3 ; 4 8 4 9 / d g p < 3 3 8 7 # C | g i { g v g o g n p v i^a p
 c t^a p { r i q u c p o 2 i n g f x g | d d g p c r m w v c j g n { | g 0 G p p g m h p v q u^a i^a v
 p g o i { | v g j c p i u A n { q | p k 0 I { c n q t r c v k u | g n g o g o d g t x q n v c n k c f q n /
 i q n e v A i { p 2 | v g . c j q i { x q n c n 0 N^a w e . j q i { c t 2 i k t g p f u | g t o g n g w
 p g o h g l n f j g v g w n k k i c | k w f q o^a p { q u 2 r g v 0 J c g i { v c p^a t j q u l c d d
 k f g k i e o g i A n g i c n e v g f t^a v . u | » u g o r g j g v g w t » r . j q i { c h e v c r e d d
 p g o | g f 2 m c | q p c u | c n q p d g r i v j c v » k f p d g n A n 2 t x 2 p { g u A i j g u g p 0 v i {
 p k p e u w w f p g x g r u # U j q |^a o 2 i g t n^a 4 e u v g r e p k u c | k n { g p d g t g p f g | n g f 2 u .
 o g t v c x^a t q o^a p { q u q n e v u | A m^a 2 i u | g t g p f g o q t c r k^a r i c 0 C e w f » u /
 l g r i 4 m r g u k x^a t l c . j q i { c v c p u² m o g i A A n^a 3 / p 0 P g o h^a n n k o q p f c p k c

pci { . fg pgj gl gp p²ru|gt u¹lj gv ki c|u¹iqx0 C o ci {ct wfqo^ap{qu/
u¹i o gi o gp²v ug o lcwctvqwwmhgpp c p²i { gi {gvg o gw#

U pci { dw|icmq o cn dk qp{¹lc. j qi { c p²i { gi {gvg o^au ul go /
rqpvd>n ugo qn{cp uqm o kv c|v c o ci {ct n¹4x²rgo²p{ gi / t²ul g
i qpfqp⁰ Eucm c|²tv vgw|kn uqncm o gtv gn wfwm vtpk j qi { c
vnlgu qtu^aidcp ngw rgi {gp0 O ci {ctqtu^aipcm ngtgmp p{qre o knk>
renquc o ctfv. vj^av n¹v o knk>tc gukm gi { wfqo^ap{/gi {gvg 0 Lgi {/
|gvgldgp r^atcwcp vnlgu²i i gn ³u| gi { lk c m¹4¹4f k qtu^aiqm gi {gvg k
xku qp{ctc xqpcwq| > cf cvqnev. co gn{gm gi { t²ul²v ekmgldgp ²u
dgu²f gldgp ku hrij cu| p^anc0 Dk qp{¹lc. j qi { c Z X K K Z X K K 0
u^a|cf dcp cri cncfv qn{cp lgrpv ugdd p²o gv jgtégi u¹i. hglfgrgo /
u¹i. co gn{ n¹4nguu²i²pgm pgo vtvqc xqpc. j qi { qtu^aic u^ao^atc
m¹4¹4 gi {gvg gv cnc¹uqp0 P²j^ap{ u^a|gl gt renqu^a nku^anc o qeunc
o^at m¹4¹4 gi {gvg gv vtvqw hgp0 U gppgm n¹4¹4j gw P²o gvqtu^ai
o xgn f²u²pgm i c|fci x^anq|cvqu^ai^av gi {gprvgu grqu|v^av ct^a/
p{qu^ai^av0

C| gi {gvg gm o^at o gi xqncn0 Hppvct^vuwm gn|gvu grf³4²ug
xqiv c nkugdd hncfcv0 Fg hgn ngnw ngv Ald>n ²r¹gpk ²u dk vqf{cpk
ngnw u^ao wntc c| grpi gfjgvgpAn ul Am²i gu hgn|gtgr²u0 G| xqiv
c pci {qdd. c pgj gl gdd o wpc0 G| v o^at vnlgu² Mrgdgnudgti pgm
ngnw x^ancp0 U x^ancnc ku. d^at c nkgtAj gvgv² v o cf^auqm uqm|
ul qt gnl qo q¹q²n0 Fg dk qp{qu xqiv cddcp. j qi { gr³4 c| kf .
co knqt c pgo|gv j^arlc o clf o gi p{kn^apwn lf tcf|^a uckxcn ul go dgp0
U pci {qp dnfqi xqiv. jc gdd n c j^arl>n xcnc k gn rgi gv ncrqw0 Dgt/
nkp dgu²f²dgp o gi jcvqcp go n¹4k u rqrknk r^an^alc rgi ul gdd go /
r¹ngk gi {kn¹pgm o kv u¹lc c lgrpgv. eco knqt gi { gi {ul gt h¹4f o¹kv/
n¹rxkn. c o ci {ct Cn¹4f kugpcv hci grlg rrgw u c nkui c|f^am
pgx²dgp vncnq|qw c j¹g|v¹u gmp. o kvjc n¹4 AnAm cmt gi { ku
uqncp^a c o gpmAn gi {gvg gm hppvct^vu^axcn l^at> cf>nev ²u n¹4m²/
i gnv0 EGi c| guv lgn¹rgu² o wcl.ô h|k jql|^a ô jqn tglv|pgm
O ci {ctqtu^ai gtgl²pgm i {3n¹gtk jqn euqdi c| e uqfchtt^au. co gn{/
d n pgo|gk ²rgv¹pm hq|vq klAr¹i qv ²u gi²ul²i gv o gt¹0 C lgrpgv
nku² tqo cpkncp ul¹g gw. o clf pgo qncp{qo cvulgt 0 C|v c|qp/
dcp jkrgu² dk qp{¹lc. j qi { Mrgdgnudgti gl gp c rqpvp m¹4¹4g
ë>x^ati qwo gi²t²v u w¹pi 0

O kv gp t²ul tgi clf u p²m¹4n o gi^ancr¹lj cv. j qi { c xkf²nk gi {g/
vg gm n¹4 An Mrgdgnudgti pgm c r²eukgn xqiv c rgi ngxugdd ul gtgpeu¹lg0
Gppgm vx^addk n¹4r¹ug ²u hlnu|v²ug o gpv c rgi xqpcvqwd. gi {/
^anc¹p pgo emgdgnudgti ki vgo r>dcp0 O gi ku x^afqn¹m ô o kv n¹4w m ô
j qi { U gi gf gv. c ucl^av ngtArg²v. ²u Fgdtgepv. Dvj rrp Knx^ap ngt¹A

ng²v hcxqt^ka nc xqpc R²eu tqx^au^atc0 C x^af ki c|u^ai vcrp xqn0 Gi²/
ul gp o^a uwwngmc| qnqncvngtgp²pn0

Mgdgndgti gv c r²euk gi {gvgo jg| c r q| uqp{k o gi crcr²u^an
ngl f xg gt u ngi {grvk ul^ancm h|v²n0 Cppcm kf gl²p. o²i m^awu|/
^amco vkn^t nqt^adcp. j cvm cu o v^apnⁱv x²i|gw c| gi {gvgo o v^apnⁱl^a/
pcm grpf²uc v²t²p0 Co knqt j gn²t n v^axq|qw c| gi {gvgo vcp^aeuc
3;390 o^alwu 4^ap ngv j cv^atq|cv^adcp xkuu| cvng²vgw ei c| fci ukngt
o v^apnⁱu^ai^atc. 0 0o gn{pgm n²u|³pj gv. j qi { c| gi {gvgo grj gn{g/
|²u²tg ul qn^an^a vngm n²tf²ug i {qtu²u c| gi {gvgo ²tf gn²kgm o kpf gp
vng²vgdgp lcx^atc ul qn^an^a o gi qn^auv p{gt²u u^ancrⁱdcp ul qm^avcp
o grⁱu^ai gn o qpf qw n²u|³pgv c| gi {gvgo o gn ner eu^arcvcp x²i/
|gw pci { ul qn^arcvqn²t0 O^at c| c r²g²cv co gn{ c| grj gn{g²u^agn ner/
eu^arcvcp 3;390 hgdw^atl^adcp Rq| uqp{dc ²tng|gw Mgdgndgti ngi/
gi {²pkdd o v^apnⁱl^apcm gtgf o²p{g xqn0 M²dgp pci {qp uqm o kpf gp
v²4²pv< c| ³u| gqo r²unqt c vcp^atk net n²p{vngp xqn o gpgm²pk u
o n²4²u²v gi {gn tg Dw^acr gugp hq^avcw0 Fg ngl fgw n hqi xc c|
xqn c v²4gnx²ug. j qi { qn{cp x^atqudcp v^an²dq c| gi {gvgo qv^aqpv.
co gn{km c| ³u| gu netqm gi {Aw² n²4²u²v dk| qu^aij cvlc0 C| cmqt
o²i ul gtd o gi ul^am^au crw^am^a R²eu x^atqu^apcm vcp^aeuc²u n²4³pu²i g
hcn^al^apn^awc. j qi { c| gi {gvgo gv dgh^acf lc²u grj gn{g| k0 G j cv^atq| cv
n²4gn²g| o²p{g xqn J crgt Kw^ap cmqt^axcn^au²u n²4 qmc^au^ai {k
o kplu| vtpgm 3;420 cw0 340²p ngv r²g²cv. co gn{ nko qpf^avc. j qi { c|
gi {gvgo gv R²eugw xci { j c g| pgo r²ppg ngj gu^ai gu. c Fw^apv^an o^au
cm^acu x^atqu^adcp ngm grj gn{g| pl0 C xgtup{dgp x²i ngi gugp R²eu
i | {³4< Xcu L| ughpgm c o gpgm²gv gi {gvgo gm grj gn{g|²u²t n dg/
p{Av^aqw o^at go r²gw v²4x²p{lxcurevc xkuu| cxqj cv^avcpwn R²eu
x^atqu^av lgn²ng o gi c| Gt| u²dgv Vw^aqo^ap{gi {gvgo A²u²n²gn²A²o

Co knqt Mgdgndgti 3;440 lApkw^adcp^av^agwg c n²4 qmc^au^ai {k
v^atec xg|gv²u²v. j co ctqup hqi cfvc c| gi {gvgo k vcp^aeu nkn²rf³4gk
u c| qppen o gi²tv^ag c r²euk grj gn{g|²u i {qtu r²dq{qn²u^a0 Gn| ngi.
3;430 cw^awu|wu 430²p c x^atqu c ul gtd o gi ul^am^au cn^an hnu| cdcf vn0
Mgdgndgti eucni {cp o^at 3;440 lArk^a 3;0²p R²eugw vct^a| nqf km
dgl^atlc c o gi hrgn j gn{ngv. ul^ao dcxgu k c| ³u| gu ul^a>dc|³4 gv ²r A²g/
vngv. gm²ul²uk v²xgk0 O^at gi { j²v o A²xc ³u| gA²n c v^ag fgrⁱa^av
²r²u²gk dk| qw^ai0 J co ctqup. 3;450 hgd0 :0^ap nqto^ap{|>k tgp^agrv
/u²70k|g|k o gi c ul A²pgv uq^atqpk²u c o gpgm²gv grgtlguk²u r q| uqp{k
gx0 vq^ai kck cncf²o k^am j gn²dg c r²euk gi {gvgo t²u| gn²pv c Uq^artq/
dcp grj gn{g| gw gx0 vq^ai kck net0 C| A²l^acrmw^a gi {gvgo hgr^axcv^auc
3;450 qm^adgt 36/tg gugw0 Mgdgndgti A²pprk dgu²f²dgp o gi go r²ng/
| km c o A²n^an ku. c j²v²x gn vk A²i {gmt n co knqt Rq| uqp{dcp c| gi {g/

vgo u^ao^atc dklvufqwc c r^to^auk p[{]atk rcmv^v ëjcxcm cu rctnd^a/
 xcn²u vgm⁷xgn ogn[{]gnpp cmmqt ulcdcf xqnv pci { gi {gvo k x^atqut²ul
 2r⁷v²v v^txgl pl⁰ Fg o^at c l³k dg p²| u c o geugn^{rk} gi {gvo k
 x^atquv »o ci {ct J gkfgndgti i/pgm ngtgul v^grk gn u c| uk p²o gv gi {gvo k
 x^atqu o v^{pn}l¹j q| j cuqpn» v^grlv^o 2p[{]v x^at v r^g0 P²j^ap[{] pcr
 o Àxc c lqi k²u c d³æv²ul g^gk nctqm gmg[{]f^vm o v^{pn}l^lwæv⁰ C| qtxquk
 net c| qpdep gi {gn tg eucm n⁷v²xhqn[{]co qv wf^qw r^gn³4³4 v^gpk= c
 v⁴dk j^atqo 3;460²x p[{]ct^ap. c| k^v2|gvm²u ml^{pk}n^m gm⁷ul Ång
 w⁷p l^wqwgnc| gi {gvo^a mcp^f» ul²n^j gn²tg⁰

O^au xqpcv^ul^audcp o^at go n⁷gvo Mrgdgn^gdti jcl^{ro}^av c|
 gi {gu wf^{qo}^ap[{]qu k^v2|o²p[{]gm o v^{pn}l¹a pcm urgek^aru dqul^vu⁷tc⁰
 G| c jcl^{ro}c o^at 3;39/dgp Pci {o ci {ctqtul^ai gi {gvo glxgn n^{er}euq/
 r^vdep o gi p[{]k^{ka}p^wæ[<] o^at cmmqt f^lh^gg^gpek^apk ul^ggwg xqpc c|
 gi {gu gi {gvo gm h^{er}fcv³4²0 C fgd^tg^gpk gi {gvo pgm ul^apc ô
 cmmqt# ô c v⁴3⁴m j»f^qm^ai²u c r^tq^vucp^vku^ow v⁴v²pg^vpgm h^gr/
 f^qi^ql^au^av c n^qu^lux^atk h^gi c| g^tf²n[{]k h^gl^gf^grgo^ui v⁴v²pg^vxgn
 h^qi n^{em}q^lqw xqpc. c r^ql^uq^p{k r^gf^{ki} c ZXK⁰²u ZXK⁰ ul^a|cfk
 o ci {ctqtul^ai k r^vlp k^tq^fcm^o o gm^gw gn uqtdep o ci {ct o x²ul^gv
 v⁴v²pg^vg^r0 Vgto²ul^gv^gpp c| gi {²d h^{er}fcv^qm gm⁷v^{uc} r^atj^wco qucp
 o gpv xqpc⁰ Mrgdgn^gdti eucm c urgek^{km}wo qv cnet^v n^go g^{rk} co gn[{]
 c ul^Åm²i gu n^Å3⁴pr^{gi} gu v^{cp}ul²ngm h^grⁱ n⁷v^udcp ul^gtx^gl^gv^{ki} ku n^hg/
 l^gl²ut^g l^wq^w xqpc⁰ C| Å jgn[{]g^vdp c r^tqi^tco o r^p{gi g^upp x^am^q/
 |q^w0 C n⁷v c^h3⁴f^k gi {gvo pgm o quv gn uqtdep c| c^{pp}{k^c g^{ij}cp[{]c/
 i q^v C^h3⁴f^{rt}qd^ro^al^{pc}m h^{er}f^qi^ql^au^v ul^gtx^gw xqpc n^{kl}g^h4^{pk}0
 C r²euk gi {gvo n³4g^u2ⁱ2^Ån x^{kl}q^{pv} c f^wa^pv^{Ark} n⁷tf²ugm wf^{qo}^a/
 p[{]qu o gi x^{kl}i⁷uc l^wq^w0 ëJ^{kl}g^p q^w x^{cp} c f^wa^pv^{Ark} p[{]g^{rk}. c
 f^wa^pv^{Ark} o x²ul^gv q^w x^{cp}cm c F^wa^pv^Ån u^{qm} v^{gn}kp^vg^{dp} pg²|.
 r^vh^{mp}f^kwo qu v^tuc^fcm k x^{kl}q^p{ck q^w x^{cp} c F^wa^pv^Ån urgek^aru
 l^qi²rgv. x^{cp}cm v^lm^tl^{ck} urgek^aru dg^{vi}u⁷i g^k< g^lg^{ti} { v²t. co gn[{]gv
 o gi ngm o v^{pn}l¹pk⁰⁰ c r²euk gi {gvo pgm eucm cmmqt r^gi gv l³k l^g.
 j c 0 Qⁱ2^u wf^{qo}^ap[{]qu o v^{pn}l¹u^ai^av dg wf^{lc} n^{er}euq^{pk} c F^wa^pv^Ån
 pci {²rgul^Åm²i r^gvk^{dg}00

ô C r²euk gi {gvo k r^tqd^ro^am v^xa^{dd}tc ku^a mcp^f»cp h^qi n^{em}q^l/
 v^wn⁰ O²i c ic^fu^{ik} x^anⁱ c^{rw} ku c|q^p v⁴v^g c h^gl²v. j^qi {cp
 l^wf^p c| gi {gvo gv v^xa^{dd} h^gl^gul^vpk⁰ Gi { k^f d^gp c^{tt}c i^qpf^qw.
 j^qi { c| gi {gvo gv j^{cv} n^{et}tcn Ål^aul^gtx^gl^k< g^lgm n³4 Ån j^atqo r^gw
 xqpc R²eugv *ul^gng^o wf^{qo}^ap[{]. l^qi wf^{qo}^ap[{]. qtxquk net⁺ j^atqo
 r^gf^{ki} U^qr^tq^{dp}ep *g^x0 v^gqⁿi k. v^gto²ul^gw^wf^{qo}^ap[{]. d^ap[{]ul^{cv}²u
 g^tf²ul^gv⁰ M^fu²i v^grp. j^qi { c| q^tul^ai pci {q^{dd} v⁷l^gi {u²i g^k n³4 Ån c|
 C^h3⁴f^{fg}n h^qi n^{em}q^lqw c r^gi v⁴ld^gv kw cnet^v c pci { ëv⁴v²pg^k li c|/

u²i xcrpu²i qvè j gn{tg ãpk= fg gdd n pgo n²ãgvng| km j qi { c Fw^ap/ v²ã. i {gto gmqtc ²u klãr²i c ul² p²j gn²v. gn² cp{ci qmc xqpc0 ©i { ²tg| vg. j qi { c| c| ã o ci {ctu²i. co gn{tg c| qtu²i pem cmqtc ul² ãn/ u²i g xcp. h rgi gtt n c v²lt>n hqi nktcl| cpl0 Pg hgrf lãm gn j qi { grkx gmgpu²i g xqrv c| ã0 p0 wtepk² o wupcm c ngrvgt hqt²w²upcm< o kpf ki p{wi ctc p²| gw u c euqpc qtu²i qv ngrv hgn n n c| gm p{wi c²k^a mco pem n²k^a pvc w²pk c l³/₄ dgp ku. o kpv c j qi {cp c| xqrv c o ãndcp0 U gj j g| c Fw^ap v²ã n o ci {ctu²i^atc. cpcm p{wi c²k^a d xk²i ul² go r²ng/ v²tg ul² ãn²i g xqn0 C| C²h²f²gv ku eucm c²tv cnetv o²n{gddgp hgn/ ul² pvcpk j qi { c o gi hqi cqv h²f²dgp c p{wi c²k^a m²n²ãtc o²n{gddtg dqu²v²cuuc i {³/₄ngtgv ²u o ci {ctcdd i {ã0 ³/₄ãu²ngv j q| qp0 C Fw^ap/ v²ã k^apk pci { ul²gtvgv R²eu hgr² uwi^at| qw0 G| c x^atqu ngw v²ãgm²ugk/ pgm gi {km n²ãr²qpc0 U ko d>nwo qv r²vq²w cddep. c o ci {ct²u p{wi c²k^a o xgm²i gi {o^atc v²r²f²u² pem dk²vcw lgm²r²v j qi { ²rrgp R²eugw c²m²m² o gi c lcpw Rcp²qk²w/ V^atuc²i. j ku gp lcpw xqrv c| gm o ci {ct n²ã. cnk wew v²ãv c o ci {ctu²i pem c j wo cpluc xk²i k²qf/ mo qto ckhr²0

Pgo Mg²dgn²dgti gp o ãn j qi { c r²euk gi {gvgo o gn n²euqrvqu v²txgk eucm t²ul² dgp xcn²w²j c²cm o gi 0 C Fw^ap v²ã n ng| fgvdgp ô glv c o k²ku| vt² tg| ki p^ancp^a m²r² f²lc o gi ô pgo uqnev v²ã f³/₄v gi {gvgo²xgn u v o ci^adcp R²eu x^atq²dcp ugo v²r²nc o gi c ng| fgk r²mgugf²u w²p c| v c ul²gp v²ã gv. co kg c i {qtucdd hgn f²uj gi v²if ul² ãn²i ngw xqpc0 ËJ c c ul²cp^ar²u kf²gl²p pgo x²fgo n²ã³/₄ ul² c²nf²v²ki. o c c r²euk gi {gvgo pl²eu v²ãdd²i 0 Co f² U gi gf²u Fgdtgegp ul²kv² gtgl²ã²p hgn²ã^ar²q| vcm gi {gvgo gk²tv R²eu pgo pci {qp o q| f²vn0 Co kn²t c o k²ku| vt² ul^ao^atc c²nf²v xqpc gi { nku h²gl²gv t³/₄ v²p v²r²qi c²w²f| pk ng| fgw< o gmqtc j q| l^atw²ut² ul^ao f²j c²pc c x^atqu t²ul²t nã Mg²l²fgo²p{g²ug c| qpdep. co kpv o ci c n²ng²pl²w²cp n²h²gl²vg. ëpci {qp eugn²n² xku²| j²epi²tc v²r²n²i 0 Grk²o gk j qi { U gi gf²u Fgdtgegp i c| fci cddcm fg c²tv g x^atquqm i o qpwo gp²r²ku^ar²q| c²v n²ul²u²i g²u c ugo o k n²ã³/₄v c| ^ar²q| c²n²ul²u²i pgm ul^ao qu h²ng| c²v xcp o²i 0 O^at/o^at r²xqpc c n²ãgvng| v²uv. j qi { c| C²h²f²ã²p pci {qdd gzrcp| f²x gt o w²cm| km= g| gn ul²go dgp c f²w^ap v²ãk gp²g/ i²k²m o k²v²c g²nc²pf²cm xqpc0 Cpp^an lqddcp ³/₄ãn co kn²t x²i tg. r²o c O²ctk²pwo r²vgu²f²u²xgn n²euqrvdcp. R²eu x^atq²pcm^ar²q| c²n²ul²/ u²i g ku pci {qdd o²t²v²ndgp o gi p{kk^ap²vn0 U ²r²pm²t²fgm f²utg v²r²iv p^anc 3; 4; /dgp c| c r²euk o go qtc²pfwo. co gn| c| gi {gvgo v²q^addk n²ã²r²f²u²v u²ãi gw²0 C v²q^addk hgn f²u o^at j²c²r²nc w²ptc gugw0 G| gm²p c| cf²v²ng²p. x²i ki v²ng²pv²g. v²ti {k²ci²quc² o gi^a m²r² f²j² c²l²wm j qi { Mg²dgn²dgti c| gn² cp{ci qm²cm²n²k^a n²qwr²euk gi {gvgo gvku0

pci { u|gtgvgwn i qpfq| v< grj gn|g| vg. hgn|gtgwg. rtqi tco o qv fq|
i q|qw nk u|^ao^atc. vx^addhlgul vepk ki {gn|gw0 V³4gnx²uglpgm c|qp/
dcp pci { cncf^an|c xqiv ²u o ctfv c| g| cmcmqo o cn rgn|fj gvgvgp/
pgmdk|qp{wvcp{ci kpgj²|u²i 0

Uqmnen ngf xgl ddp cncmw c jgn|gv U gi gf gp. c Hgtgpe L>|ugh
Vwf qo^ap{gi {gvg grj gn|g|²u²xgn nre euqrvcdp0 C j u²i gum² o gi/
vci cf^auc o kcw Mqr|ux^att>n nkweuf|qw rtqhgul|qtqm gn u|³4 Dwf c/
rgvgp o ctfvcm cpcm c| 3; 420 hgd0 420^ap j q|qw o kpl|vgtvcp^aeuk
f³p²upgm crcl^ap. co gn| rj|gv x² vgw. jqi { c o gpgm² r q|uq|k
²u nqr|ux^atk gi {gvg gm kf gk| rpgvgp Dwf crvgp gi {Aw o n²4 lpgm0
C| 3; 3; 420 vcp²x o^auqf km hgt dgp ngl f f³4v gn g| c lqi hq|vqpqu²i
hgpvct²v² v e²n » ³4u|go n²4²u0 M²u dd c| gi {gvg U gi gftg ngt²Aw.
cjqn c x^atqu c| gm ²xgm pgi²|u²i glpgm rgn|f²ug w²p r^atcvcp
^arf q|cvt²u²i i gn l^atwv j q||^a c vx^addk n²4²u²i gm xlug²u²j g| 0
Mrgdngdti pgm v²4du² ³4 cmcm c xqiv m²4²p³4vgp Uqo qi {k U kxgu|vt
cmqtk rqi^a to gvgtpgm o²n » o vpv²tu² pcm tgpfn²4²Ark v² o qi c/
v²u²v c p{kx^apqu²i gn w ku o ci cu|vcpl0 Gi {o^auw^ap go gm|vgm
c| ²r²Avgn c jcvcm cu mlpl²m c o kpf gp ³4u|gj cuqpf²v
nk²m » vto ²u gwwf qo^ap{k kp²|vgm co gn|gm c wf qo^ap{qu e²n
u|qn^arv²p n²4²Ark o²i c x^atqu u|²r²u²j g| ku tgpfn²4²Ark o²v²mlgp
j q||^a l^atwcm0 C x^atqu n²r g ²Ark {u| »^ap o gi x^anq|qw0 O gi ²r²Ark c
vgo rmo v²t. c u|gi gf k ²Ark o^atmw/v²t²i. o gn²tv ²Ark c. jqi { o gi pgo
n²4²vgm gpi go i² ²Ark n²u dd0 C| cmq » o kpl|vt ggo ²dgp xcp=
pgo i { | grj gv i {³4²n²4²pk o x²dgp0 M²4²Ark ³4²Ark c v²i rchcpm
o kpf gp qu|nr pcm o kpf gp o x²u|kpg n²4²Ark euqiv r²o r^auctvpcn0
.. o rpgm dgn rg c r^atj wco qm U gi gf c ²Ark c i {ct I ³4²Ark c i. c vgo r/
mo v²tgp^am hqi cfcm k vgo rmo o gt²u|. ecorcpk|u|gt vtp{ck
xlu|qp v²4ptg go r²ng|vgn0 ²Ark c i {ct M²4²Ark xcp qw rpp
c Vku|c ²u Octqu ³4u|ghqn^au^ap^an nkrcmw>dcp. co gn| c o ci c gt vrgu
x^atqk gi {²pk²i²xgn o kpf ki jcvcm cu v²o cu|c rgl c o ci {ct pgo|gk
i qpfqrvcpm c pgo|gk o xgn f²upgm ²u mwn^ap^acm0 ; rvg gi {km
rj|u|gdd p²rlc xqiv c u|gi gf k ²Ark gi {gvg k ²r²Ark hgtcv²u² pcm
Apprg0 i { ²tgl v. jqi { c|^atx² w²p nkrcmwv ngtg^atquv ²r r gp
rj| {³4²u²i ²Ark kf gl²p ukng²Ark o²n » n²r r gp i c| fci |cpk rj| cif ddu
dk|qp{qu hqni vtvcmo o cn o gi v²ngpl0 ld>n ²u ²Ark>n^a v²i qpfqnc c|
gi {gvg ucl^aqu rtqi tco o l^av u x²i ²Ark ku c vto ²u gwwf qo^ap{qm
hqn|qw fg gi {dgp c| C²Ark hgtg²v² v e²n » o xgt²v² v |vg nk
m²4²Ark gi hgtcv²w0 Dgi cvcp vpw^ap{q|v c ucl dwti k Apprg k
l^av²ngnev. o gtv c ²Ark o^atmw/v²ttgi o²i c v²i m. ego gpv ²u j qo qm
dwen²m n²4² qf c^am qf v ²Ark u c|^amo d>n jco ctqucp xcm²u²i rgw ²Ark

c | u| cdcf v̆tk gn cf^a uqnev0 C uen̄ dwi k l^a v̆n̄ntc xqpcv̄u| » kqf cm cv
 u| qti cm cup vcpw^a p| q| v= c o ci { ct ²u m̄i⁴f k Āi⁴ i qnd̄n
 o kpf gp hqvucdd gttg xqpcv̄u| » ekmgv nks^a i qw ²u o gi t| ³40
 C| Appgrk l^a v̆n̄m o gi kpf w̄i⁴ v o ²i o gi ²tvg0 3; 630 lApku 36/²p
 ¶i v c| gi { km Āi⁴ i dcp < `K̄i cvqwp rgu⁴ Ām 0 0 0 emem cu/g U gi gf
 ctte. j qi { c o ci { ct Uen̄ dwi i^a x^a r̄dq(00) Vgrg xci { qm tgo ²pp| gn
 Eucm cw^a n hĀi i gl. j qi { xcrnk u| gpxgf² n̄ gūgp. u| ¶k^a ucp. u| cn̄² tv/
 rgo o gn v̄gi { g o ci^a ²x^a c i qpf qrv̄v̄i 0 U gi gf. co kpv o clf r̄v̄p hqi /
 lwm o ²i pci { qp uqnev u| gtr gn v̄x^a ddk v̄txgk dgp0 G| v c x^a tqv
 u| ^a pv c pci { c i ⁴ k c n̄k r̄gi h dd o q| i c w̄^a pcn0 C| gi { gvgo /
² r̄v̄² uv ku gdd c| ^a v̄hi > dd r̄tqi tco dc krgu| v̄w̄g dg < ěG| c v̄u| ck
 gi { gvgo kv gddgp c pci { c i ⁴ k o gtqr qik dcp eucm cm̄qt hqi j kc /
 v̄^a pcm o gi h̄ngpk ²u eucm cm̄qt krgu| n̄f km dgrg o kpv p² m̄i⁴ j g/
 v̄w̄gp u| gtx c pgo | gv qti cpk o w̄^a dc. j c c| gi { gvgo k i qpf qrv̄ r̄gi /
 r̄p| gi guggd o q| | cpv̄^a c m̄w̄^a uv gi { gu| v̄gpk w̄^a lc c| c i ⁴ k
 i qpf qrv̄cn j c m̄w̄^a uckpcm v̄^a ti^a v r̄j gv r̄gi Āi { x^a r̄eu| lc o gi.
 j qi { c o gi qf^a u| q| n̄⁴ gr̄dd j q| c c| C i ⁴ k pci { ur ge^a r̄ku r̄tq/
 d i⁴ o^a k̄i 0

C f gdtgegpk gi { gvgo n̄⁴ t² ug Mrgdgndgti gv o^a t pci { qp n̄t^a p
 hqi n̄m̄u| v̄wc0 Go r̄n̄g| Ām xluu| c. o k| gp o guu| go gp v̄txgk
 xqncm c ppm kf² p c dqp|^a m u^a n̄c̄i dcp c dcm̄^a pk k i Āi⁴ i O ci { ct /
 qtul^a i qp xcn^a kun̄i⁴ | v̄^a xcn n̄re uqrv̄dcp0 Vgtxgk gm n̄⁴ r̄r qp v̄^a /
 dcp c o ²i h̄n ugo^a n̄⁴ qv f gdtgegpk gi { gvgo u| gtr gm0 O ci^a p h̄r̄gi /
 | ² ugk n̄⁴ ³4w 3; 35/d^a n v̄^a d d qn̄ cp i qpf qrv̄v̄ v̄r̄ n̄w̄m c f gdtgegpk
 gi { gvgo m̄i⁴ p̄ngi gu j kcv̄^a t^a n̄ co gn̄ gnp gm h̄ng r̄xgp² ug j v̄cm cu
 l̄p| n̄⁴ x² v xgv̄ gv c n̄⁴ u ddk gi { gvgo / ²u w̄^a qo^a p| r̄ qk k̄nu gn | gv̄u
 h̄ln f² t̄² t̄g. gu o g xk̄^a i^a pcm n̄k r̄cn̄ w̄^a t̄c0 Mrgdgndgti cm̄qt n̄⁴ /
 k i c| i v̄^a uk d̄⁴ > xqn0 C n̄⁴ t² u v̄j^a v pgo j kcv̄cn̄ > n̄ pgo ě Āi { n̄⁴ i
 h̄t̄o^a l^a dcp ² t̄f gm̄rg0 O kpv o ci { ct go dgt u o kpv c Lw̄^a p| gi { gu^a v̄
 Āi { xgl gv k i c| i c w̄^a lc f̄ qn̄ q| v̄ nk o go qtpf wo e² r̄lct c c r̄gp f
 f gdtgegpk gi { gvgo gu o w̄n̄e r̄tqi t̄c o o l^a v̄0

ěP go r̄ppg t^a pm p² | xg j ¶^a gri . ō ¶^a lc ō j c r^a t j qtx^a v² u dqu /
 p|^a m h̄^a v̄ eucm ³4| v̄^a pf ¶^a lcn w̄^a p^a pm h kun̄i⁴ k̄ntc euc̄i cv̄k0 M̄gm
 d/qi { c| gi { gvgo gk̄ngp n̄k̄ln̄ f w̄^a qo^a p| qu o w̄n̄e xqpl| c j q|^a pm
 c o ci { ct d̄k̄f̄c̄i qo j̄v̄cm̄ k n̄⁴ ² p n̄⁴ Ān̄ gu dcm̄^a pk pgo | gv̄m h̄c̄v̄n̄
 ū^a i^a v k̄0 C| k i c|. j qi { pci { pgi² | ū^a i gv lgr̄gpv p| ḡx Ām gm̄ k i gv̄n̄ /
 ū^a i g0 C xk̄^a i p| ḡx gn p| ḡx gn u| go dgp v̄j^a v c o ² t̄ngi o^a uk̄m ugtr gp /
 | ² dg c| qnev c u| cn̄^a nev ngm f̄ qdp̄w̄m co gn̄ gm̄ c Dem̄^a p² u c n̄⁴ gn̄ /
 n̄gr̄v̄ h̄c̄v̄n̄ i^a v m̄i⁴ p³4 gddgp ² t̄f gm̄k̄0 G| c| c r̄qp̄v co gn̄ p² n̄ c f² r̄k
² u f² m̄gr̄gk k i Āi⁴ i o ci { ct qtu^a i k kun̄i⁴ |^a ū^a pcm n̄⁴ t² ug c o ci { ct

pgo | gv rgi o ci cudd mwmw^a rku rtqdr^o a^a kxcn vrf mql kn0 C o² n{gd/
 dgp i qpf qmrf» 0 ci {ctqm o^a t t² i gddgp hgrkuo gtv^m jqi { ki c| k
 v4^v pgk jkcv^u wpm o gn{pgm vgrgu^v ug t² x² p c| go dgtk² i² tv^v ngk
 n4² go gmrf jgv^u p m c n4^u xgv^v u ngrgv² u p{wi cv n4^{3/4} Xqplwm ng
 gppgm c h4^f tcl| k jgn{ gw n fkn^v nv jkcv^u upcm n4^u gvng| o² p{gk
 gi {gvo rqrkknek v^t gp ku0 U gtxgl| Am o gi Ai { c fgdteggpk gi {gvo gv
 jqi { qw c wfo^a p{qu o wpc vgtxu| gt gp g/v c e² n ku u| qn^a rlc0
 U gtxgl| Am o gi o kpf c| qnev c vpu² nngv ku. co gn{ gm c dcm^u pk
 t² u| gngv² tf gm ucl^a vqu ngrgvku| cnqnev n^r r xlugkn0

C| gi {kn kn{ gp ul cm ngppg c v4^{3/4} m hkn^v i kc² u v4^v pgrgo 0 Gppgm
 lgrpv u² i g o ci {ct ul go rqpvdⁿ ku grkxcv^u cvwcp0 C| ki c|. jqi {
 p{grk² u| gpm grwcu^v qv^m 2^u o gi e^a hqn^v m X^a o d² tpgm 2^u v^t tuckpm
 vcp^v u^v c o ci {ct p{grk v4^{3/4} m gtf gv² n fg c|² tv pgo xqj cw»
 n^u i dg c v4^{3/4} m p{grk² u| gk mwc^v uqncm c o ci {ct p{grk² u| gv ul go/
 rqp^v dⁿ xcn» hqvqu^u i c0 U m^v p^{3/4} u lgrpv u² i g ngppg c| q| o^a p
 v4^v pgrgo hqt^a u| gt o xgr^u pgn0 Pgo eucm c² tv. o gtv c o ci {ct
 j» f qm^u i v4^v pg^v pgm o² i o gi pgo f^v hgl| gv^u Gtf² n{ v4^v pgv.
 c| kf^u x^a i» v4^{3/4} m cp{ci p² m^u pgo fqi q| jcw^m hgn jcpgo c|² tv ku.
 o gtv c o qpctej k u f^v { O ci {ctqt^u i^a ul go rqp^v dⁿ c v4^{3/4} m n^u t² u
 o² i o kpf ki gi {kn c rgi hqvqucddcpcn0

M^v rgi gup hqvqu ul gtr gv ul^a p Mrgdgnudgti c| Ai gi {gvo gp
 c dk cpv^u qn^v i kpcm^a ncl^u dep c ngrv^t o ck eu^u i^a tu^u itc xqpcmql»
 mwc^v uqncn0 O xgn f² u^u p m ng| fg^v p² n qw^a nv Dk^a pe ku0 C Mqp/
 vcp^v r^u qn{dⁿ n^u tcf» o xgm² i² u o x² u| gv mwc^v uc o xgn f² u/
 v4^v pgv^u p m p m uqm j qo^a n{qu rqp^v t^c xgv jv xkf i qu^u i qv0 C ul^u xqm
 ul go rqp^v dⁿ o gi m^v p^{3/4} u gup hqvqu Dk^a pe u f^v { g rqp^v p^a n kuo² v
 2ⁱ gv hqvqu^u i A o ci {ct 2^{tf} gngm dwncppcm gn. jku| gp o² jqi {
 o^a uv pg go n^u p m o² vng xci {wpm ul^u x pgo| gk² i gmngn0 G| gngv
 eucm Ai { wflwm jgn{ gup nqto^a p{q| pk e^j c c| gi² u| r^u p{Angv o gi/
 jcv^t q|» ul gngo k² u gtn^{3/4} euk cncr o qv^u kwo qnev kuo gtl^u n0 U kw xcp
 c o ci {ct ul go rqpvdⁿ pgo ngx² udd² 2^u rgvdx^a i» hqvqu^u i A qtqul
 rtqdr^o c u c xng nrcuqv^u r^a pu^u i^u xk^o vwu. co gn{ vng xcp o² i
 Dk^a pedⁿ grkpf wv xcn^u uk gu^o 2^m ngn0 Vpw^a p{clpm n4² dg ngm
 xqppwpm c ngtqu^v p{ i 3/4 3/4 2^u ul^u x ul gngo 3/4 u| gqkcf^a u^u pcm gi {/
 j^a | k² u o xgn f² uk hqn{co cv^u 0 G| v rctcpeuq^u m rqrkknek 2^{tf} gngkpm
 ku^c c pci {u^a o A i 3/4 3/4 ngrvk 2^u i 3/4 3/4 nevqknwu o ci {ct^a nco rqi^a t
 o gi hrgn nqto^a p{^a u^u pcm n4^u gngl gw² i g0 Mrgdgnudgti o^a t i qpf qn
 c o gi ul gtxgl gpf Ai i 3/4 3/4 /nevqknwu o ci {ct r^u r 3/4 m² i tg. c| gi {g/
 u^u r 2^u pgo gi {gu^u r i 3/4 3/4 rcr^u i² u vcp^v u^u i ul p^u xqpcn^u pcm go gr^u /
 u² tg0 Vcpw^a p{q| pwp m ngm o² xgtugp{tg ngrk gi {2^d pgo| gvgmgn o

c i 3/4 3/4 p{gkx u|gp^ua u| 3/4 kgi gv c i 3/4 3/4 r c v t k u| v k n i 0 M Ā ĩ 4 3/4 u
i q p f f c n c n e t l c n k n ĩ r g l p k c o c i { c t i 3/4 3/4 / n e v r i k n w u q m x g l g v k v c n k m
¶ { m w w Ā t a d e p c t w 2 p 2 u c t q o a p r c r u ĩ h 4 ĩ n g t g n g f p 2 p g n # O k p f /
g l g m c t q n q p u | c n q m g i { Ā w x 2 x g q n { c p m w w Ā t r k u n ĩ 4 p l g l g v g v v t g o /
v g p 2 p g m c o g n { j g l h q i j c w } p g o r g p p g o 2 i g i { G w t } r a d e p 0

P c i { u l g t g r l w p c c r ĩ a v h q i } d d 2 t v g r g o d g p x g w u l r e x k u | v k n i /
p c n 0 C d e m ĩ p k u l ĩ x q t u l a i q m c n ĩ 4 2 r n q t d e p p g o g i { u l g t O c i { c t /
q t u l a i o g n 2 m e t v q o a p { c k x q n c n 0 C Z K Z O u l a | c f d e p u k n g t Ā v h g n /
g o g m g f p k Ā m u g n d d p 2 r g k m o c l f q t u l a i c k m v 2 p { g l m r g w g m c o q /
p t e j k c m Ā r q r i k n ĩ l a d e p 0 V 3/4 v p g m Ā n g v c p p a n k u k p n d d p g m Ā p m n g m
d g j c w } v t i { k c i q u ĩ i i c n c p w w a p { q l p w p m o g t v m o c i w n c r i k j c
u k v p g m n i g o g p k o a t e u c m r q r i k n e k q n q n d } n k u c p c i { h q p v q u ĩ i Ā
o c i { c t d g h q n a u g t g f o 2 p { g k v 2 u g l m n u d d k p { q o c k 0 F g g i { 2 d n ĩ p v
k u j c m v c p w n 2 t f g n g u r t q d ĩ r o a m o g t Ā p g m h g n x g n Ā m n e r e u q r v d e p <
o k r g w p a n m c r e t r o g p v e t k o w u d } n j q i { c p h q t o a n f v e m a v c n ĩ 4 /
e u 3/4 x g w p { w i e v g w } r e k k p v 2 o 2 p { g m u d 0 u d 0 A C l q i / 2 u i c l f c u ĩ i /
v 4 v p g v m w e j c v p a c j c v t t x k f 2 n g m u l ĩ x r e n q u ĩ i a p a n n i c r e m w w j a | / .
x c i { q p / . h 4 ĩ n ĩ 4 3/4 u 2 i g m v 4 v p g v v a n c ĩ d e p c u l ĩ x l q i t g p f u l g t v .
c o g n { g i { g u j g n { g n g p . r ĩ 0 D q u l p k 2 d e p . 3/4 p o c i a w n a v g l g v c o q j c o g /
f a p l q i x k ĩ i a d c 0 C p 2 r g u g f 2 u k w f q o a p { g r t q d ĩ r o c n ĩ 4 t g n n e r e u q r v /
d e p o 2 t j g v g w p Ā n 2 t f g n g u n ĩ t f 2 u g n g v v u l v ĩ j c v p c < j q i { c p j c v q w
r ĩ 0 c v 4 3/4 n w c r q o c l g i { g u v t Ā n g v g n g p c r e t c u l u ĩ i t c . o k 2 v r w u l w w
g n c p p { k o c i { c t h e n w c l C ĩ h 4 ĩ f 3/4 p 2 u c F w p a p v Ā n n g r g k h g ĩ d g p . o k 2 v
o c t e f v o g i U g t d k 2 u D q u l p k e u k r e n q u ĩ i c A C n ĩ t f 2 u t g ô o k p v
r ĩ w w m ô M r g d g n u d g t i a n c ĩ p q u ĩ i d e p o a t x a n u l v c f q w c c F g d t g e g p /
d g p 3/4 u l r q p v q u ĩ q w w f q o a p { q u m w c v a h g n f c v e r g w x q r p c c t 2 u l r g /
v g m v u l v ĩ a u c 0 e O k n { g p c m w a r k u r g p p g ô ¶ l c ô c d e m ĩ p k p g o l g v g m
p 2 r g u g f 2 u k x k u q p { c l p c m 3/4 u l g j c u q p ĩ } } x k u i a r e v . o g p p { k g g n u g i ¶ /
v g p 2 m g l g m c m w c v u q m c l k n g v p 2 r g m g t g l 2 t n 2 u 2 t v 2 n ĩ t n x c n } ¶ 2 r g /
v Ā p m n i c r e m w ĩ u ĩ 0 O g p p { k v 2 x g f 2 u v r ĩ j g v g g l g p c v 2 t g p G w t } r c g n w
g n q u l r e v p k 0 U w f q o a p { q u ¶ 2 r g v g l p m t 2 x 2 p j c v c r q o a t r g p p 2 p m o g n /
v n c d e m ĩ p k p 2 r g m r q r i k n e k n ĩ 4 g k 2 u r v d ĩ k e k u v k v c t v c p a p e m i 0

C v e t x g l g v r q r i k n e k 2 u w f q o a p { r q r i k n e k u l g o r q p v d } n g i { c t a p v
c r ĩ p c i { q d d o 2 t v n d g p o g i 2 t f g o r k o 2 i o c k u c l ĩ i { g n o g v u l g n g o /
| g p o w e v c . o k n { g p h q t o a w o Ā m w w Ā r q r i k n w u x q i v M r g d g n u d g t i
o a t c l g n w j q i { c m w w u l o k p k u l v 2 t k w o d e p f q n i q l q w x q r p c 0 O c i c u p
u a t p { c m n ĩ r l g r g v d g p c o Ā v 2 u l g r g p r t q d ĩ r o a k h 4 ĩ go g m g f g w .
f g c h 4 ĩ f 3/4 p k u w f q w l a t p k 0 L n w f v c . j q i { g i { k n { g p j e v m c u m Ā ĩ 4 p
r t q i t c o c n o g i v e t j g n g i { g v g o o a t e u c m r 2 p l Ā i { k q n q n d } n u g o r e v
v e p g n g i { k m p e r t } n c o a u k n t c 0 M Ā ĩ 4 p n g r g k v c p u l 2 n g n g v e u c m c p c /

i {qdd 3/4^am» vgt. Ārgwgn d[¶]» u|cnqm u^ao^atc vctv u| Ām²i gugmpgm gi {2d/
 n²pv c| qpdcp c| ^ancif pqu wfqo^ap {u|cnqm wpa^atkv n²4grgl p² o gi/
 hrgn ur gel^a rku nqm²i kwo qnpcm c wptgpf dg xcn» dglmcv^a t^ac0 Vku/
 v^adcp xcp c| |cn ku. jqi { kf ngm c o gi hrgn n²r| gw²i vpa^aqtm² u
 c n²k^apcvqu r²u^ao Ā fl^am²i 3/4u| gugt gi r²u²tg0 C fl^anqm u^ao^atc
 grkpg 3/4 v^apf^alcnev v| pg nk jqi { Fgdtgepgd u| qnicpcn0 ěJ c 2x/
 v^agf gm u| gtxgl² u wfqo^ap {qu o wpi^axcn nwm^a/f tgcfpqwi v^aqv
 wf wpm euk^apk fgdtegpk gi {gvgo Āpnd n cmqt vgu Āpm o clf cmqt c
 u| qn^arcqv c o qpctej k jcvcm k^an²u^apcm ngrgvp. o l^apv c gi / jcl»/
 »t^akv^a Āpmc rxcpvkxk^a gntg0

C u²r gi qpf qn^aqmte jco ctqucp ngeucrw c rgi pci {qdd xkj ct.
 co gn^a v^a4^vpgm Āpndgp xcrcj c ku vqo dqn0 C o qpctej k 3/4u| gqo r^aw.
 O ci {ctqtu^a i qv u²v^actcdqn^an0 Mergk o ku| k^at^an dktqf cm k v^atxgl/
 i gv^augnt n jquu| Ā kf gli u| » ugo n^agv^ac c r^aw²gv ku r^atdrigo c/
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 r q| uqp {kcn gi {kf dgp o gi n^agf v^a o wpi^a v0 Vgto²u| g^au| gt rgi c
 jquu| Āgl^atcv^a m^agdgnudgi k v^atx g^akp^auc c| cmqt k xku| qp {qm n²4 3/4v
 gi {gn tg u| »dc ugo n^agt Āj gv^aw0 C| ²r^a n^agl² u o gi k^apf w^a. fg c| 3/4u| g/
 qo r^au n²4gv^av^adgp cddco c^atf v0 C h^attcf cm cm c^aw ugo o k ugo
 v^a4^vp^a0 C| ²r^a n^agl² ugnv eucm M^agdgnudgi k^apf^aqwc o gi Ād^an o^at
 3; 44/dgp0 Co knqt c n²u dd euq^arcvqu u²rr² m^arcm^aw m^apk^ack v^arg/
 rgv. co kv c^app {ku| qt o wqi c^aqv lqi qu d^au| ngu²i i gn n^ant^a4f k xgp^af²i gk/
 pgm gn u| 3/4 o gi r^aqi c^aw. pci {qp u| qo qt Ā r^aw^ap { v^atw^a u| go gk gr^a0
 ěVgv c^aw xq^awi {cp. ô ¶lc ô fg dghgl g^av^apn^a m^aqv c fgdtegpk
 gi {gvgo k v^arg. co gn^agv o knqt gn u| 3/4 qf co gp^apm xcn^adcp Āi {
 h^agf^av^apm hgn o l^apv c| k^an^apcm c| ugtf dgp r^ax xcrc^agn^a g^aji c| c/
 v^aw x^atq^av0 V^addo²v^agtgu i c| n²4 3/4v c^aki v^an^awm o gi c| gi {gu v^av
 c^aw r^ax gi {gvgo k ²r^a Ārgv^av^a0 Fg o^at cmqt Āi { ²tg^av. u| k^apv
 pgo ku g h^aft n xcn» d^akn^af^au^acn jqi { ěx^aitg dg^av^ac o²t^av^am c o k
 u| gp^agf²ug^akm o²t^av^ang u c n²v^act u²r^ap gi { lqdd n^at jclpcj cuc^au^av
 n²v^an0 Pci { gp^ati k^axcn g^akp^aqwc c o wpi^a v u c| gn n²v m^apk^an²v
 o^at 3; 450 u| gr vgo dgt 450^ap h^arcx^av^acw0 G^am h^arcx^av^au^ap^an o qpf v
 c| go r^an^agl gv^a u| cxc^av. co gn^agn^apm ki c| u^aic o²i o c ku dgr^apmclqi <
 ě| u j c gi / d^arf qi cdd l^agv^apf o clf xku| cv^ank^apv gl gntg c n^agtxgu
²xgntg² u o²tk c| ²t^av^angv cmqt pgo h^ailc o gi v^acfpk c t²u|/
 x²v^apn h^agn gr^auo gt²u²v ugo c^aw^an co kv c o ck u| gt^apeu²v^apn pgo | gf²m
 r^atcv^apn^apgj² | n²4 Ām²p { gmn²4 3/4vg j gn^agp cm^aqv^awi

C^appcm n^ant^a4 3/4 Ām. jqi { ²rrgp c m^apk^ack ²r^a n^agl² ugm Āi {g qn^acp
 u²rgp jcm^av gn tg0 C m^apk^an²m c| u| go²dgp pgo eucm gi {gvgo k ²r^a Ā/
 rgv^am jcpgo h^apvqu. p²m^ant^a4 jgv^av^apn p²rgi²u²i Āi {k k^apv^a o²p {gm ku

xqncn0 G| c| qnc cpcm jqi { c mlpknc/2r[¶]ugnp²n jc o>flc xqiv
 t^a. ul[¶]xgugp vgw gn tg c i {gto gni {>i {^aul cvk²u ul[¶]Á[¶]ul gvk mlpknc/nc0
 G| gn ku c o ci {ctfⁱqv cpp {k^c r wul[¶] i {gto gnj cncp>uⁱ gr[¶]
 r t>d^anv o gpv n i {qtucddcp gi {/gi { Ácdd i^acv go gpl0 3;480 qm>dg
 50^ap o^at qf^aki lw jqi { c| gi²ul mlpknc^c vgrgr gv hgnxcv^cvlc0 C hgn[¶]
 cxcv^aunqt o qpfqw dgu²f²dgp xku[¶] cgo r[¶]ngl gw o gugt²tg²u cv^cck
 det^av^atc. Vku^c Kwx^aptc. nlp[¶]gm pgx²v c| gi {gvo xkugr^c u cnlp[¶]gm c|
 qtxquwf^{qo} a^p{k vgrgr gn w hgn[¶]mf[¶]q w ul qdt^av c| a[¶]mco h vi {cpgl gp
 c pcr qp rgr[¶]rgl v[¶]rg0 Mgi {grvgn kf²| v[¶] hgn cpcm c| a[¶]mco h[¶]thk[¶]apcm
 hgnf[¶]jgvv[¶]pp cncn^av. ěcnk m[¶]f³/4v c fgo ci>i[¶]kc²u c f[¶]gutw[¶]ek[¶] gmp[¶].
 cnk c| gwt>r[¶]ck a[¶]mco h[¶]thk[¶]m n[¶]4[¶]Án gi {gf[¶]Án gmpgl v^c c j^adqtÁv u cnk
 c pci {³ku[¶]l gvqo r[¶]udcp j uk j[¶]cr[¶]nv j[¶]cnv cnuqt. o knqt cpp {k h[¶]4f[¶]k pci {/
 uⁱ n[¶]ku[¶]lv gp h[¶]wq w ul gt[¶]vul²llgr0 P go xqiv go dgt. nk lqddcp w[¶]nc
 xqpc c n[¶]upi > l[¶]a[¶]| ku²u lqddcp ko^afv xqpc c vgwv. o kpv Vku^c
 Kwx^ap0 C| cmq> o w[¶]pn[¶]pcm xc>uⁱqu h[¶]pcv[¶]knw[¶]c xqiv = u[¶]g[¶]qn ugo
 rppp[¶]g v[¶]j^av ul qdte k[¶]pn[¶]dd j[¶]gn²pxc>. o kpv c f[¶]gdtg[¶]epk mlpknc^c vgrgr
 gn w o gn[¶] c o quv²n o ci {ct pgo |gf²mpgm v[¶]nc p c r[¶]gi pci {qdd m[¶]w/
 wt^arku²u n[¶]4 gi²ul uⁱ Áⁱ {kcmq[¶]v[¶]uc0

Rqrknc^c ul go r[¶]qvd>n ku pci {tc²t²v[¶]ngng c vgrgr dghgl²u²v0
 O gi xqiv i { | fxg. jqi { c o k[¶]vcu[¶]gt o gi qf^au o²i m[¶]Áu r[¶]tqrc/
 i c[¶]pc[¶]c vgn[¶]pv²dgp ku v[¶]4ldgv²t. o kpv c e²rl[¶]cvquc o gi f[¶]v h[¶]Á g[¶]vmpgm
 c[¶]n[¶]t c o knk>k0 G| gm v[¶]p {gm u ul cxw[¶]ev r[¶]g vgwv[¶] o gi pgo j[¶]cncp[¶]l0
 G[¶]i v[¶]vgn gn lgi {g| v[¶] o gi. jqi { gf[¶]ki c| kf[¶]gi p[¶]gnp[¶]gm jc xk²ntg
 xk[¶]Ám ngv ul gi gf[¶]k j[¶]cr[¶]cr[¶]tk[¶]uv cf[¶]wpm xci { c J[¶]qtvd^ai {qv o wq/
 i c[¶]w[¶]n0 O quv o^at g[¶]j^at[¶]lj[¶]cv[¶]wm c x^afv. jqi { Dw[¶]cr[¶]gugp n[¶]fk[¶]Án p[¶]peu
 o^au ugo o[¶]kn0 C mlpknc^c vgrgr dghgl²v[¶]xgn m[¶]Á[¶]p[¶]dgp pgo a[¶]nv o gi
 c o w[¶]nc0 O gi k[¶]pf[¶]kw[¶]c c n[¶]4 r[¶]qpk²r[¶]Ágv²u c d³te²ul gv[¶]k net²r[¶]kn[¶]/
 |²u²v ku0 C| gt[¶]gf[¶]gv[¶]cp^atk netv n[¶]4 dgp c v[¶]to²ul g[¶]w[¶]qo a^p{k ul c[¶]nm
 n[¶]7 r[¶]xk[¶]gn xgn gi²ul f[¶]vgw n[¶]0 Xc>dc[¶] gn r[¶]g[¶]gv o q[¶]pf[¶]pk jqi { c f[¶]gdtg/
 epk gi {gvo gv. co gn[¶]pgm p[¶]qto a[¶]rku n[¶]kc[¶]rcn[¶]w[¶]u[¶]v o^at c xk[¶]i[¶]j^adqtÁ
 n[¶]7 ur[¶]ngw[¶]. c h[¶]ttcf[¶]cm cm r[¶]gf[¶]ki gi {gp[¶]gugp o gi c[¶]neul v[¶]q[¶]m w[¶]rlf[¶]qp/
 n[¶]7 r[¶]gp cmq[¶]w o gi0 Ct[¶]tc c| q[¶]pdcp. jqi { c t²i[¶]gddk n[¶]grv j[¶]cv[¶]cu
 o²t[¶]gv v[¶]tx[¶]gnv F[¶]gdtg[¶]ep[¶]t n o kpv c n[¶]grv[¶] wf[¶]qo a^p{qm n[¶]4²r[¶]q[¶]v/
 l^at>n Ád>n gn x[¶]g[¶]guug. c x^an[¶]q[¶]l[¶]q w xku[¶]q[¶]p {qm n[¶]4³/4v pgo n[¶]gt[¶]Á[¶]g/
 v[¶]wuqt0

Pgo r[¶]g[¶]gv vi c[¶]fpk jqi { c n[¶]v o g[¶]pgm[¶]Áv gi {gvo p[¶]gm Ád>n xc>
 hgn[¶]mf[¶]v[¶]uc²u c j[¶]cto c[¶]f[¶]kp[¶]cm l[¶]gr[¶]v²ngp { t²u[¶]dgp xc> hgn[¶]r[¶]¶²ug t[¶]gp[¶]/
 n[¶]fk[¶]Ák a[¶]rf[¶]q[¶]cv[¶]nev l[¶]gr[¶]v[¶]gw c pci {p[¶]g[¶]l[¶]gp n[¶]d[¶]tc^am> q[¶]tu[¶]i[¶]pcn0 Fg
 c dw[¶]cr[¶]guk wf[¶]qo a^p{gi {gvo ku d^at pgo xqiv j[¶]cl[¶]h[¶]m[¶]cp u t²i[¶]k hgn[¶]
 ul gt[¶]gr²u²v pgo xk²m gn c j>f[¶]¶[¶]m c j[¶]qu[¶]cp[¶]ct> j^adqtÁ²u c h[¶]ttcf[¶]cn[¶]

o cm n³kgvngl o²p{gn²pv ukcm cu^a ncr qvdc lwqw0 Dk qp{qu c| ku
 j qi { c| gi {gvgo k e²ntntc nkj cu²j cw» n³nu²i xgv²uk 3⁴ul gi gm gr²i
 ct^ap{vcrpwn qu| nqvcw o gi 0 C| qtqu| n²pt²u| c| A| crcr²uA xkf²nk
 gi {gvgo gmpgm lwqw= c| qm ner²v m c o qf gtp²r²Agvngv. c nqtu| gt
 hnu| gtgr²u0 C dwf cr guk gi {gvgo t²u| dgp grxwv kp²v| gvkgxn o gi/
 nqr qw hnu| gtgr²u²xgn ngl f gw o gi n²gv ugp tqul vn hguv²pk c| gi {Av
 vudgp0 M²u²i vngp. j qi { gl xqrv c v²p{ngi gu j gn| gv0 Gdd n uqncp
 r²xqp²v m c n³kgvngl vgv²uv. co gn² eucnj co ct x^aff^a ngo²p{gf gw< c
 o kplu| vgt c dwf cr guk gi {gvgo o gn^a ncr²dcp c h x^atqucn pgo uqnev
 v⁴f km o kpf gpv c xkf²ndg v⁴0 O²i qn²cpqm ku. cnkm Mrgdgnudgti
 hgn²vgp j²fk²gk xqncm gt grxqp^au>n dgu|²ngm c o kplu| vtpgm qn²cp
 v²xgf²u²t n co kv c l³kg nqtiki^arp² hqi 0 Ngi h²4l²gdd c| v j q| v²m hgn o gpv
 u²i pgm j qi { Mrgdgnudgti cmnqt ngl f v g gn c xkf²nk gi {gvgo gm
 pci {qddct^ap{A hglngu²v²v. co knqt dwf cr guk vgtxgk ô pgo c|
 j kd^al^ad>nô o gi j kAmncn0

N^awm Mrgdgnudgti jvcwm cu o²tg²v vgtxgk c ëo ci {ct Fcj ngo i/
 o gn ner euqr²vdc p0 G| gm c vgtxgm hgn²gn²m c o ci {ct vgo²u| gw²q/
 o^ap{k mwc²v u gi²u| n³4²v u c n²gi n³4 grgddt n²tkp²gv²m c o gi {gv/
 o gv. vx^add^a c wfqo^ap{gi {gvgo qtxquk² u d³4e²u| gk nct^av0 J c
 c vgtx o gi xcn²uwj cv. c dwf cr guk gi {gvgo o kpf gp²i gv dd rtqdr²/
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 vgo ku v²o cu| qv cncf^an qncv0 U dgvv| v g c| gm²gv²xgv²gp²f²uv c
 h x^atqu o ci cvct²uc. co gn² pgo cnet²v wfqo^auwn xgppk c Mrgdgn/
 dgti v n nk²qri q| qv²u c o^auww l>n dgx^anv j q| |^al^atw²uk tgp²u| gtv0
 Mrgdgnudgti^a ncr²dcp pgo xqrv o gi gr²i gf xg c h x^atqu mwm^arku
^arf q| cvn²u| u²i²xgn0 Hgrj q| v r r0 j qi { pgo eucm j qi { pgo l^atw²n j q| |^a
 c| ^amco k u| p²j^a| cm v²o qi cv²u²j q|. j cpgo gi {hgn n c X^atquk U| p²j^a| /
 |cn xcn²u²i qu n²pnwtgpek²v eul^an c| Qr gtcj^a| pcm o^auhgn n xki cm k
 cf>dcp grk²u| k o²i c| ^amco k u| vdxgpek» gi { t²u|²v ku0 fnci²dcp o²n²
 vcrppcm vctvqc. j qi { c mwn²Ac u| p²xqpcr²pcm heppvct²v²j q| p²n/
 m²4 j gv²v²gp nyo qn² u| p²j^a| cnev xki cm k cf>xcn vgtj gr²gp²gm o gi 0
 C| v ku hgrj q| |c. j qi { c h x^atqu v²u²i qucp vcnct²nqun²q km c v²mgm²gr0
 G o ci cvct²u u^ao r l^atc f²v. j qi { r r0 c pci n³4²Avp pkpeu gi {gv²gp
 n³4²r²Agv. xlu| qp²v c| ki c u²i A²{o kplu| v²tkwo h j qo n²q²cv gi { o gn²
 r²nwe^adcp xcp grglv²g0 Fg gl gm o²i t²i k f qri qn² Uqmen u²q²qucd/
 dcp o k²u²gv². j qi { Dwf cr guv xg| gv u²i g u| gtlkpv² c| gi {gvgo k
 p³4²p{ngtv n²tf²u²dgp ku pci {qp u| mrgdn²p xkug²mf gw< j cu| pc/
 xgi gv²v²gp vgt²Agvngv cl^aprqw hgn nigr²i f²v o gi qf^autc pgo xqrv
 ner j cw0 Fg m²4²p²4gp d^apvqc c ëo ci {ct Fcj ngo i. xci { ô co kpv
 o^au cmc²qo o cn grpxgl v g ô c n²i {o^ap{quk ëEk² Wpkxgtukctgi n²t/

f²u²dgp vcp^Àu^Àqw o ci cvct[∇]uc. co k Mrgdgndgti o gi [¶]u²ug ul gtpv tkn[¶]» gmgp[∇]vdgp ^anv gi {gu xkf²nk x^atquqm jcvco cu ^arfq| cvckxco} Ctte pgo ²t|Àpm jkxcvqwfⁱqv. jqi { c xk[∇]v cñt w»rci ku grf³p^v u^Àn0 C h x^atqu n²w²i vgrgp^Ànci {qp uqm ^arfq| cvqv jql qw ²u jql c mwf v^Àa²tv fg gm uqtdcp c o ci c kp[∇]|o²p{gk r t>d^anc r²p| Ài {krgi v²rñrp⁰ Mrgdgndgti. cnk o kpfgp n²tf²uv c rgi^a hqi >ddcp tci cfqw o gi. pgo w^fqw gl|gn c dk qp{qu o²t[∇]nki jgn{jgl n²4³4v ul go r²rgwgn gi {g[∇]v²vgp⁰ C n²tf²u gm²ti gu[¶]v²dg dgrgl^aul qw c pcr k r qk[∇]nc. u v wñp o c o^at nkdqi q|jcvcrp ul go²n²k xqpcv^{nq}|^auqm ku0 C x²i g c| rgw. jqi { Mrgdgndgti v²txgk c dw^fcr guk gi {gvo gm vx^a ddh^lrgul / v²u²xgn n^{er}euqr^vdcp o gi jk^Àw[∇]cn0 J c o gi xcn>uwi^v cpcm c rgi / v²Àdgvn²w²i vgrgp^ÀDwf cr guv^{nc} v xqpc0

C pci { v²txgm o gi jk^Àuw^fuc c|qpcp pgo lgrgpk c|v o kp^vc ugo ok ugo v²4^vpv xqpc0 Mrgdgndgti pci {qp nqo qn^l gt hgu[¶]ugngv vgw jqi { c dw^fcr guk gi {gvo gm pgi²| jgn{jg^vp ku ugi [¶]ugp0 O kp[∇]| / v²u²i gnu kf gl²dgp ukngt^Ànv m^Àv²p hfg gl²gvgv dk v[∇]u[¶]cp[∇]c c m[∇]kp[∇]ñm v²pntgo gpv h²j²tpgo /^amqo^a p[∇]|^apcm n²gi²u[¶]v²tg0 Pgo uqmnen n²u dd 3022.222 ctc{m²qt^av^a n[∇]u[¶]qw dg c n²4^mu²i xgv²udg c vx^a ddk rgi u^Ài ugdd ul ^Àm²i rgv^m hfg gl²u²tg0 C o gi {gvo ogn n^{er}euqr^vdcp ku i qpf qnv c n²u^lgt vx^a ddh^lrgul v²utg< t^af[∇]/v[∇]p[∇]u²ngv. tgr ^Àn o qvt/ v[∇]p[∇]u²ngv und0 cñtv h²r[∇]n[∇]u[¶]cp⁰ C v²4^vpgk ki c|[∇]i c|qpcp n²w²i / vgrgp^Ànc|. jqi { c xkf²nk gi {gvo gm n^{er}v^m xk[∇]u[¶]qp{rci qucp²u cdul qn^Àv o²t[∇]mgn o²tv[∇] ku c v²Àdgv0 .. uul gh^Ài²udgp xqiv gl Mrgdgndgti x^atqur qk[∇]nc c^{nc} r[∇]gk[∇]xgn ku. co gn²nt n n²u dd. g h²gl²gv x²i²p rgu^l t²u^lrgvugddgp ul >0 Gn dd o²i c| gi {gvo k n²tf²u^{gn} ul qtqucddcp ³ul g/ h^Ài²u gi {o^au^{cn} ku n^{er}euqr^vdcp^am» n²v rqp^vv ngm o gi xk^fi[¶]/ pwp[∇]c c ul grg[∇]nc» n²tf²u²dgp vcp^Àu^Àqw h²r[∇]qi^au^v ²u f^kmul qe[∇]rku kp[∇]|ng²ugk0

C ul grg[∇]nc» n²tf²ug ô o kp^v n²w^m ô Mrgdgndgti gv l>h²to^ap n²u^{tc} h²À[∇]i^awⁿ ul kp^v gi {gvo k j^{cn}cv» n²u^awⁿ ngl f^xg c rgi m^Àv²p/ d³4 dd ul go rqp^vnd>n h²i[∇]nc^{nq}|vcw0 Gm²mgf²ugkdp h rgi c rgi / o ci cu[∇]dd xgl gv m n^k^arcu[∇]v[∇]u[∇]pcm v[∇]ñn^v ul gtgwg xqpc o gi n²4 gr[∇]/ v[∇]pk cddcp c o gi i{ f²udgp. jqi { c pgo |gv uqtuc x²i gtgf o²p{/ dgp g r²qdr^oc jgn^lgu o gi r^fa^uwⁿ h^Ài^o C v[∇]ckp[∇]kp n²u^lcm c ul g/ rg[∇]nc» n²tf²u²v uqmnen j^{cv}tq|qw[∇]dd h²to^adcp xgv[∇]w h²r0 C o gi / q^fcpf» r²qdr^oc gi {hgn n ul qe[∇]rku lgn[∇]i xq[∇]c jqi {cp²ij gv o gi^a vo gpgv[∇]gi c| ³uul gl uwi qtqf qw qtu^ai dcp c v²4^vpgk vt^Àrgv[∇]gm l>/ h²to^ap gi²u o ci {ct²vgro ku²i gA Fg dgrul ³k fvgm c n²tf²udg nwn^À/ r[∇]qk[∇]nc n²4 gr[∇]ddt n k[∇]u[∇]rcr qk[∇]nc ul go rqp^vm ku< jqi {cp^a n[∇]u[∇]m dg c| k[∇]u[∇]m ul t ul g[∇]ngl g^vv Ài. jqi { gi {hgn n ul^a o q^rl^vpm c eu[∇]pn^c

qtul^ai vjgtd[¶]» nřrgu²i²xgn xku|qpv pg hřřfng| Āpm gn tğ[¶] k» guğ/
vřtg c l³k ki²p{gkt n ugo A C nřtf²u gi {kng xqrv c rgi u^Δ{qucddcncm
o^at eucm c|²tv ku. ogtv pgo grtcm[¶]tq|jcw». jqrw rgn[¶]tk vřti {cnt»n
jcpgo go dgtgnt nuqtuqnt»nu v²rrgp c pgo|gv tgo²p{²t nklĀr/
i wpt»nngngwf³pvgpĀpn0

C nřtf²u u^Δv o gi uqm|qtq|vc c| qtul^ai tğwpgvgu. gu vřgp
o gi euqpn[¶]uc0 C o gi u^am»m c ng| Āndg guğw vt Āngvm o ci {ct²tvn/
o k²i²v eucm c rgi tknřdd guğvdp vtv²m o gi t²ik jgn Ānřp0 G| gm
nřp{vřgp gm xqncm glgt/ ²u glgtul^ao tc c o ctf²nqtul^ai hřř vřwpk0
O ci c Gt²n|. gl| c| uk o ci {ct m^Δvřt Ārgv vřddglgt vku xkugn v.
v³p^atv u|cdcf²tvgn k²ikv cfqw^a v c o gi o ctfv qtul^ai t²u|pgn0
Pgo uqmcn lqdd xqrv c jgn|gv c vřddk greucvrv t²u|gp ugo 0 C| glgt
dellen mĀř euqpn[¶]vřt Ārgv²tvgn k²ig pppgm nřk³gvng| vřdgp gt ugp
hřřv|cfv0 C vku xkugn k Hk³gv²ugm p{wř[¶]cm p{qo qtĀr^ai qu xqrvwm
gnp²tg cffki uqj c pgo vrcu|vrv o²t²vřndgp ki²p{dg xgw²m c|^amco/
nřp³tv. co gn| c| qtul^ai u²vřctcdq^auc²u c| kphřek» nřk³gvng| vř/
dgp co Āi { ku grlwqw pqt^aru vřn[¶]gv nřrgu²i²pgm rgi x²i u jcvř^a/
jq|0 Gm³k³gvng| gw c uqtq|cvqu D/rkv³m c x²i nřři[¶]vřugm u|qo qtĀ
nqtul cnc0

G| gn r^atjw|co qucp. pgo wqn» uqtdcp c xkři^aj^adqtĀdcp o gi/
o q|icvq²u ki²p{dgxgw »t²uk vřo gi gnp gm lqdd²rgv| p³xqpcrv^aj[¶]»
u»x^ati^auc nřk³gvng| o²p{gnřpv c| gi²u| xkři^aqp. p^anřpm ku. c| cnc»dd
²u nř⁴rt²vři gndgp jcvrv cu hřřgo gmğ²uk x^ai {. cuepfk⁰ wu lřgpv/
ng|gw0 C| qtul^ai o gi euqpn[¶]uc wřp c rncquři c t²ikpgm hřřřtg
eu³mğpv< gl|gn u|go dgp c nř⁴rkunřck vcpw»m u^ao c pci {l^adcp
c t²ik o ctfv. c h kunřck jemi c»m řřv^ao c rğfki. rgi cřřdd^avo gpgv/
rři. o²i c d²nřřv^ao qv ku hgn Ān Ānc0 C uc vku vřck cfvqm xkř/
i qucp o wcv^am c jgn|gvv0 C vř⁴vřpgk qtul^ai dcp c| gi {gvgo k²u
h kunřck jemi c»m řřv^ao c 3; 35/dcp xqrv c rgi o ci cucdd< 36.7970
C nku qtul^ai dcp xku|qpv 3; 44/dgp 39.528/tc. c nřk³gvng|²xdgp rğfki
3: .569/tg fřv|cfv c u|go Ān0 M²u dd eu³mğp²u^amv dg. t²u|dgp c
j^adqtĀ²xhřn|co qm nkřer euq^af^auc. t²u|dgp c o gi u^amv vřt Ārgvm/
pgm o clf pgo jgtogk²nu gr^at^auc nřk³gvng| vřdgp0 Fg c|²tv 3; 47/dgp
o²i o křfki 35.72: /tc tĀi qw c u^ao wn0 J cuqpn» xqrv c jgn|gv P²o gv/
qtul^ai dcp ku. cjqn 3; 42/dcp c h kunřck gi {gvgo k jemi c»m řřv^ao c
gřřtv c| 3; 32/gu řřv^ao nřv|gtg²vř Mřgdgudgti pgm cddcp ki|c
xqrv. jqi { pgo ucl^aqucp o ci {ct. jcpgo xkři^artqdř^ao xcn^a nřpm
u|go dgp0 Fg c|²tv c o ci {ct t²u|v pgn Āpm nngw x^amrcpwpm u c o k
nřk³gvng| Āpm xqrv xrg u|go dgp²|pĀpn# Dgn³k³gvng| gw c jgn|gv.
jq| { gi {hgn n c o wpcf»m² n Ānřp c rgi pci {qdden c|^amco o cn

nřp{vrgpgm xqncm c t²ik cmeroc|qwc m ul^ao^av ku ul kvpg gt ul cnuqcp
euř4mrgpvpk o^auhgn n xlu qpvc| kunqřm m c nř4²r kunqřm m 2rr Āi { . o kvp
c h kunqřm m 2u gi {gvgo gm vqx^add qpqv^am hrgo gw řw^ao o cn c|
Āl gt ngv. c| kf nř4dgp gmř ul Āngngv. cnkm c| ^afcvcp jgn| gvdgp
c| ě2ngvncr wci gn wnřp{vrgpgmxqncmo gi vqr cppk0

Mřgdřudgti 2tj vř. jqi { c hrgn uři nřtf²ug gn dd/wdd hgr/
xgv fkn0 Vcřp gl²tv ku jcp uĀn|q|vc cpp{krc. jqi { c ul gmgo k vĀngto g/
řuv ô co kdgp xcp p²o k ki c|uři ô gnu uqtdcp c nř4²r kunqřm m qnq||^am-
gl gnp gm řw^ao^av wř {cpku pgo go gmgo C| gi {gvgo gm 2u h kunqřm
ul gtr²v jclrcpf» xqrv xlu qp{rci qucp nkuğdd lrgpv uři pgm vnkp/
vřk0 T^ao wcvqw ctc c xguł gfrgo tg ku. co kv c vcpw^ap{cknev řb o gn/
^ao o cn x²i| gwgm vřo gi gk c| qtu^ai ul go r qpv^ad»n lrgpvvpgm0 ěG gntg
pkpeu ul Ām²i Āpm o gtv c| křgp řn/kpvgm vĀngm nko xgrřug pci {
pgo|gk nrcno k³uv lrgpv0 J gn gup Ĥi {gk o gi. jqi { p^anřpm c nř4/
j kxcvqndc »f wř upcm gi {kn qnc ěc o wpnc pgi gidd pgo glv n xcn»
řw^au⁰ G vnkpvvdgp pci {qp nř^apcvupcm vtcp^a c pgo|gv 2ngv
2t|²uřpgm i {ř4ngtgu ^avřto^anř^av ěO ři p^anřpm c ugo o kvx²u o 2i
dk qp{qu hřqo uři pem c lrg 2u pgo o gi xg²u vřti {c. o ři c lqi^aul k
r^an{c o kvf gpp²n gn ngn dd hqi nrmq||^aul^ao dc o gi { . o ři o kvf gpnk
xgl vřk 2u ftki^arp k cnet 0 0 0 cffki c xlu qp{qm i {ř4ngtgu lqddtc/
hřtf wř uř^at»n pgo řjgv ul »0 Vqx^addk o 2i dguł²f gğdd dk qp{ř²nkřm
xcp cm ctc xqpcvq||»rci. jqi { c rtqdřoc vřngu uĀn^av ^avřtg vř0
O^at gi 2u nřt^ap. 3; 450 lcpwř 480^ap hgnřvc c pgo|gi { řu gn w
c nřtf²ug xqpcvq||» hřpvqudd ul^ao cfvqnev u r xqpc c mĀřp dgp
o ci w»n cf»f» nř^axgng|vř²ugng0 C|kf dgp c euqnc qtu^ai dcp h/
kunqřk x²i| gwuři gi {2p xqrv 67.9220 G| gm 2xk hqi {cvřnřv 3582/tc
dgeuĀng0 C ul Ām²i nřgv. qr vřo kvc o »f qp dngul^ao řkxc c hgn f²uv n
ki 2p{gnv vř4drgv ku. 2xgpg 3; 42 ul go 2nřdgp ^amer řkvc o gi 0 G| gn
ul go dgp c| gi {gvgo gm 2u h kunqřm m cddcp c| kf dgp gi {gvvř 2xdgp
6: 57 fkrqo^av quł vqwc nk0 Cnřtj qi {cp hřti cvwm ku c ul^ao qnev.
nř4 gn 5222 go dgt. c x²i| gwgm hřřp²n l»xcn vř4d. c euqnc qtu^ai dcp
pgo l wř cvqw o gi hrgn ^anřudcp nřp{2tj g|0 Xcpcm wř {cp nř4 vĀm
o 2tp³nř4m qtxquqm uvd0 cnkm gugvgi nĀřř4ř 3p ku gř gn|g| mřj vřpgn0
Fg gtg ngx²u c tgo 2p{. o gtv jkuł gp c k r qo c/křhřk» xkř i lrgpv²i 0
ěJ c o k uqncn pci {qdd kvgnki gpe²v nřr g| Āpm nk o kvp co gnřtg ul Ānř
uři xcp. »tkř uk ul qe²řku dclqnev kf²| Āpm hř0 0 0 | p g| v c nřtf²uv ki gp
nřo qnřcp xguł go 2u pgo eum c h kunqřm m jcpgo c| kunqřm m o kvf gp
vc| q| cvřtc nkgtlgf . ki gp cncr qu ul^ao řkcvřuqnev nř ul řkvgng0 C| kf²/
| gw ul^ao qnd»n gi {2dnřpv nkř g| Ān jqi { c nř4²r kunqřm m o gmw c h ku/
nřm²u gi {gvgo gmku o gi vřw²mc o ci wř vř nřtf²u gm 2ti guř²uřtg0

Gi { r q p v q p M r g d g n u d g t i g n w c u f f q w o k p f g p x l s v c c n g t g u l v p {
n i 4 2 r q u l v n i i { g t o g n g k p g m o k p f g p n i 4 A r o 2 p { g m n i 4 3 w d k v q u f c p k
n f x a p v c c v x a d d c p w f u n g j g v u 2 i 2 u 0 N a w m o a t . o g m n t c h p w q u /
u i q v w a l f q p f q w c l 2 t v g n k u 2 i k t 2 v i w a p r » v i u a x c n n e r e u q r v d e p
c j c i { q o a p { q m c e u r i f k c f q w u i q m g t g l 2 p g n 0 e C l c h r g n u o k p u l /
v g t . c n k o 2 i c i { g t o g n d g p o g i p { k r v n q } » t g o 2 p { v k u g n c n e t p a x g p p k
c n i 4 2 r q u l v n i » n p c i { d p v n i 4 g v p g g n c p g o | g v g m p 0 O a t c l g i { k m
n i 4 x g v g p A n c n q o o w p k o w u d w n i u c w a p o p f q w r t q i t c o o d g u l 2 /
f 2 d g p v g t x u l g t n i 4 2 r q u l v n i r q r k n i v u A i g 0 O 2 i g n | r g i . m w w u l /
a m c o k n i t n q t a d e p n k f q i q v c c n i 4 c m e m c l q w c m i { g t o g n g k p g m
v c p w n a p { k u g i 2 n { g l 2 u 2 t n u } » » t g p f g r g v g . c o g n { p g m h d d g r k g k v
c l w a p g i 2 u l o a u n i 4 A r o 2 p { g m n i 4 3 w o k p u l v g t u i g c r e w x c n u f f q w c
o g i 0 f n c i f d e p o k p f g p c m e m c v o g i t c i c f q w j q i { c n i 4 2 r q u l v n i .
m A r i 3 a g p c j k x c v p q n k n e t k a p k p c i { t e d g e u A r u 2 v n h g l g l 2 u t g l w /
v c u u c 0 O a t v i / q u l v n i p c m p g x g l k c o g n { k m c m n t k u k v j q p o c t c f v .
N o k f p c v g j g v u g d d g m c l q t u l a i d » n n k u l 3 m g n 0 U g l c l c i { q p i { 3 4 3 v
j k x c v p q n k 2 u v k u l v n e t x c n u i i c n e u q f a v o x g n . c o k n q t c t a p { r i
t 3 k f k c r e w A i d » n h g r f r f g w g c l a m c o n g t g v g 2 u o g i v g t g o v g w c
p g o | g k j c f u g t g i g 0 M A r i 3 a g p u q n e v u l g p x g f g w g l c t 2 v i c l k p h i e k »
c r e w 0 e X c r e j a p { u l q t o c i { c t j k x c v p q n h g r u 2 i g v r k e t c o g p p k n v q m
f k c d a v o A w g r p { w t w j a d e p . u l c n e f v e k r d g p . j q i { c l h t l n g u g t /
x g u g p n g t g u g w . f g 2 t v 2 m g r p r c r f r 2 p l 2 p c e u c i f p c m x c r o k g p p k /
x c n v x g i { g p . n i 4 p p { i { r k m c u l g o g o d g 2 u u l g t g v 2 m p g n k n g j g v e u » /
n i p k 0 0 }

C r t q d i f o c p g o k u c l x q n v j q i { c n i 4 2 r q u l v n i i { g t o g n g k v c p w /
j c u e p c m g . j c p g o k p n i d d c p p c m o g i c n e f a n q l a u c . j q i { c n i 4 2 r /
q u l v n i h g r q n { c p q m v 4 g m g f l g p g m c l k u n q n i n q p n g t g u l v a n c n k m u g o
u l g m g o k u g o g i { 2 d w a l f q p u i c k m t 2 x 2 p c h r g o g m g f 2 u t g p g o x q n /
v c m 2 t f g o g u g n 0 M f u 2 i v g r p A n c t t c k u n g j g v g w x q r p c i q p f q p k j q i {
c n i 4 2 r q u l v n i v g j g u 2 i v g r p x c i { j c p { c i i { g t o g n g k u l k p v p p g o 2 t f g /
o g p g m u g o o k f r g n i 0 2 r g v g . c p p a n n g x 2 u d d 2 r a t v h q i a u 0 F g j c o a t
g l g p c r q p v q p p g o a n f i q w w p m h e n o g u v t u i g u c n e f a n q n e v . j k u l g p
g r x 2 i t g p g o k v x q n c n i 4 2 u i i { 3 a n g t g . c m n t n g i c r i d d a n c i f d e p n g n g w
x q p c k u n q r c t g p f u l g t A p n d g p c v g j g u 2 i v g r p g m t q j c o a v o g i i { g p i f v
x 2 f u l g t n g l g v g h g r n f i c p k 0 }

G i g p c r q p v q p M r g d g n u d g t i p g m u g o x q n v o a u q t x q u a i c . o k p v
c p p c m k u o 2 v n i g v u g . j q i { e c f k r n o c p g o d g r r / l g i { i 0 C n k i { g l 2 u
n q t a d e p . u l g t k p v g . c l x q n v e u c m 2 r r g p c l j k a p l { q w e j j q i { c n i p g x g l 2 u /
n q t A i { a v i w n e u l a m o k p v c n e r e w l c l w c u x c u A k l g i { 2 v c u l c n e u l /
d e p i 0 O a u c j g n { g v c e u q p n e q t u l a i d e p # e i r r g p A i { . c o k p v d a t o k f g p

krct nkcprwuc pgo cf lqi qv ctte. jqi { c | kngv c | krctdcp cmcm c /
 |^auv kngvxg grj gn{g|ngf²uv p{gtlgp. Ai { c h kunqrck fkrmqo c ugo cf
 ugo o k²ng lqi qv ugo o k²ng cmcm c |^autci 0 C | ²tx gm jcnf utc ul²rgp
 jcp | km pgo Mrgdgnudgti o ppf w gn ul^{3/4} u pgo ku wqrd^atc0
 G | ul qnqw c dcldc lwqw hgrgn u v²p{g| m ewnko c tvkqi / lcn³pv
 ul gtr grpk jcuqpn» gugvgnudp0 C jkdc eucm c|. jqi { gl v c | gmgv
 c v²tucfcmo n^{3/4}hgrqi^auc pgo xqrv jclrcpf» ul gpvgt^{3/4}gpk u { crnr /
 l^adcp x²xg ugo o kv ugo jcul p^an0 C v²tucfcmo eu^{3/4}n^{3/4}p{^{3/4}ugp nkct/
 vqw »ufk hgrqi^auc o gmgw co gn{pgm r²p{gi g c | xqrv jqi { cnk fkrmq/
 o^al^av jquu² A²xgm o wpm¹l^axcn c |^amco »n m²h^{3/4}p gttg c e²rtc ft^aic
 r²p|gp hppvctvqw kp²|o²p{gmdgp pci { cp{ci k²u ul gmgok v ng/
 dgmgv²uugn gugvgi^{3/4} v^{3/4}pf¹cmcn ku v²o qi cwx o gi ul gtlg v. c |
 o kpf gp v²ld²/ngx²udd² ²u ul gt gp dgtgpf gl gw go dgtk n^{3/4}u²i dgp
 tgo²ijgk ku cpcm v²ld²/ngx²udd² o gi hgrgn hgrj cul p^arf²v0 X²i /
 gtgf o²p{dgp c r²ul^a o l²h^{3/4}wk c | ²ngv²gv u²i gnv n gr^atv fkrmq^a/
 uqnev pgo rjgvgw Ai { c v²pi gtdg^{3/4}v^{3/4}gpk o kpv cpcm kfgl²p c dtc /
 |¹hck n²x²v u pgo rjgvgw dgn n²m r¹o i qo dqv ugo i^atvcpk o kpv o
 c | cmn²tk Au²i qm ul gtlpv o wi {cpedd»n c uqnr²cn² vgo²p{d r¹o
 C ul gmgok o w²ner kcepp v²h^{3/4}p{qo »t²ul v eucm v²vcf²ntc xci { pgo
 o gi hgrgn grj gn{gl²utg fqi q|pk pgo eucm h²lfcm cu. jcpgo gi {Awcn
 xgul²n²gu o xgrgv o gtv pgo tcn²tq|jcw». kpn²dd i {qtucp tqo n».
 u v tqddcp»^atw jcm q|^au²t»n xcp ul». qn{cp xgul gfgm gu v²o gi
^amcpf» i {ctcr²u²t»n co gn{ vgo²ul gw|gt rgi h²ttcfcm k jclrcpf» /
 u²i A o gtv pgo xgul²gv. eucm p{gtjgv u jql |^a o²i dk qp{qu o²t²v²nki
 ul gmgok nkeukul qm²i qvku ner qwhgul² v gtl²pgmhqnu² u²tc0

H²lfcm cu. c rgi h²lfcm cu²dd xqrv gl c r²tqdr²oc m²h^{3/4}p^{3/4}ugp
 gi { Mrgdgnudgti /ul cd^au² m²h^{3/4}h^{3/4}tv tclqpi». c m²h^{3/4}h^{3/4} i {»i {¹»
 gtl²dgp hgn²v²g²h^{3/4} d¹» »^amco h²thk^a u^ao^atc0 C r²knrcpv r²vctcpeu²v
 ngngw xqipc^{3/4}u²ggi {gl v²gpk c |^{3/4}in gu²p{gmggn fg Ai { . jqi {
 eucm c | w²ddkcm j²h^{3/4}ew²m xqipc^avo gpgv²gi c t^{3/4}h^{3/4}gddg0 Pgo rjgv
 euw^ah^{3/4}pk jqi { Mrgdgnudgti. pqjc xk²i qucp r²wc c r²tqdr²o^av wrc /
 fqn²r²rgp pgo o gtv. pgo cn²tv xng ul go dgp²|pk0 X^atw c e²cto kp /
 ecu²xgm² euq^al^av. co k xlu qp^v o²i pgo²tn²lgw gn u jcn²rc w²p ku
 gi {tg n²ugw0 M²h^{3/4}dgp c jgn{gv o²i lqddcp gm²ti gugf gw u m²h^{3/4}p^{3/4}
 ug²c | 3; 5²6 3; 5; n²h^{3/4}2 gu kf ul cn²ul dcp o^atv uqnep Ai { ²gl v²m
 jqi { c | gi²u² m²h^{3/4}h^{3/4}p{ w²f qo^ap{qu. h kunqrck u v n²h^{3/4}2 r kunqrck
 t²ul g ku v²tucfcmo kci tgpfn²h^{3/4}h^{3/4} xgul²n²gu tqddcp»cp{ci i cn c² xcp
 cnp^a | xc.

Mrgdgnudgti i p²qf qrcwk²i^adc o²n{gp dgrxk²i¹h^{3/4}cpem gi {gu o gi /
 lgi {²ugk co gn{gm o wcv^am x²h^{3/4}»f^au²v. fg gr²twl^am c | v ku. o k²tv

pgo xqiv jclncpf» gddg c nřtf²udg Å0 p0 ěgt u nř||gñi dgrgp{Åpł0
 |tg|vg. jqi{ c u|grgnel» c| cmqt k nř4Åm²p{gnj|g| nřrguv ugo c|
 cn»dd. ugo c hgu dd hqnp pgo o nř4km c|cn c| go dgtvgrgp gt²n/
 n|gn co gmnqt^av c| qtu^ai i c|fcu^aik jgn|gv²v hki {grgo dg xgx o kp /
 u²ik vto gr^au^a vo gpgvkegi o gi nř4xgvn xqpc0 Jc g|v o nř4²udg
 jqi|c. o kpf gp mwnw^aru vř4gnx²ug. c| gi {gvv p²r qmcv²u²u p²r/
 o xgr^auv nkx²xg. o ci^aw n 3/4u|g|uwi qtqf km c pci { i qpf cn nř2r f|gw
 mwnw^ař4ř p{/i²r|g|gv o gi qtr cp. vřř p o gi^am0 Ngi gv g euqf^apk jqi {
 pgo cnetv nqenřtc vppk gi²u² 2rgv o x²vA C mwnw^ařc go dgtg xqiv.
 kunqř nev o gpvgw o gi. Å kunqř nev vřgo vgw. Å gi {gvgo gngv u|gt/
 xgl gw. jcvw cu wf qo^ap{o gpv²u hlgul v cnelov kpf f|qv. o²i
 jcvw cuddenv i qpf qiv gr0 Jqi {cp wf v xqpc o ci^av gni^appk
 cttc. jqi { g|gngv c| kř²/o²p{gngv gt u|cnqucp o ci c cpp{k|c
 gp²r vřgp f|ug. o kp v co gpp{k|g c| qtu^ai cmqt k u|qe²ku²u i c|fcu^aik
 jgn|gv vřř p^avo gpgvkegi o gi nř4^apv xqpcA Mv^ař i vřgp. jqi { c
 o ci {ctu^ai gi {2d cmqt k 2rgv o gi p{k^apwř uck u|řpxqpcndcp o gu|g
 o 3/4 3/4Åm o ctf vcm c mwnw^ař rkrknek gt hgu f|ugnv n ř vř q| qw
 gtgf o²p{gnpgn0 Mřgdgnđgti u|gpv vř4²dgp gn tgu|cřf v< c| qtu^ai
 xku|qp{ck pgo dř^av m nř4xgpł0 C vř4řv pci {qddq^auc. c i c|fcu^aik
 gt i {ctcr qf^auc p²mÅn o gpj vgvvřpÅn |ř nwe^adc lwqwvpm xqpc ô
 o^at řřki /o gfk i dgppg ku xqivwpn0 Mřgdgnđgti xřř i qucp ř vlc. jqi {
 řgi cřř dd xcno gpp{k|g gi {gpnw^ak jgn|gv j cuqpv v nřngpg vřgo /
 vřpk c i c|fcu^aik v²tucf cm k vřř gu^av nřrgu²i²u c mwnw^ař rkrknek
 xqpcmp hqř»²tvřo ku²i vto gr^au^a nř4 3/40 Vřř p o ci c ku^av tgl v g c
 x^af t²u|řgi gu ki c|u^ai^av co gn|gv gi {km řgi vř gu²i guggd²u řgi u|řk»/
 udd. gi {dgp řgi^af^a|cdd mtkmwuc qřcuq w hř²tg< ěEulp^amwpm nřcnev
 rkrknev co gn| o 3/4 3/4v c|²tvřo ku²i ku|qp{Å p{qo qtc²u r wu|wf uc
^auřři 0 C uvcw|vne xcndcp nřř f v nřo wcvpk c|²tgw²i k gwgngv u v
 c h kunqř v x²i|gwgngv c pcr u^ao quqm j^a|keuřř f gm c xkrp{qu/²u
^vtucunęeuknev w|qm uvd0 nř4 3/40 C| o gi p{řv xqm xqiv. jqi { c|
²tvřo ku²i hkcwřck nř4 vřm qn|cpqm ku. cnkm mřřřř k nqřř i kwo qndcp
 nřrg|v²m vqx^add o ci wnev cmřo kci tqr r cpv cřeuqp{. gřkugj vřv
 řpÅn p{qo qř Åř i qu²rgv f|pxqpcnřn xqivcm nř p{vřřpgm pgo o gi gr²/
 i gřpk kpnř dd hji euknřti cwc. nř dt^apf wncp dg²tpl0 Uqnev o qřř»
 vřpgv rř0 jqi { 3; 42²u 3; 52 nř4 3/4v c u|qni^ancvdp^am» h kunqřk
 x²i|gw²i gm u^ao c o clf pgo o gi nř u|gt| f 3/4v< 63.:; 3/t n
 : 2.84: /tc u| 3/4ř4w hřř0 O křgn nř4 dgp c o gi hřgn^amř uqm u^ao c v²xqř/
 t»n ugo u|cr qtqf qw jcuqpv» ct^ap{dcp. g| 3/4o ci^adcp x²xg cpp{k|v
 lřřpv. jqi { c h kunqřckm grř4 3/4nř4²m c nř r|gw²i Ānřpgm gi {^ancřř p
 pgo o gi hřgn. uqmnen cřeuqp{cddcp f|c|qw o wpnřj gn|gngv ku.

co k ô t³klf gp ô c v³tucfcm k rgeu^Àu^aucn xqrv gi {gn 0 Mrgdgndgti
 o kpf gl v rqpvcup wfvc. fg pgo xqrv jclrcpf» qn{cp qtxqu^ai qv
 cmem c|pk co gn{ hgrhqi^auc ul gtpv tqul cdd ngw xqpc o ci^ap^an c
 dgvi u²i p²n ku 0 Ogi xqrv ctt»n i{| f xg. jqi { c pci {qdd vpw^au^ai.
 c o^at o gi ul gl gw ul gng²o k v ng gn dd/w³dd²tx²p{gu^Àpk hqi u o gi/
 j q| c c i {»i {wf^au 0 O kpf gp uktcm cu ver cu| vercv. D/rkvc. h³g²v/
 eu³mgp²u. ^am^aucrcpu^ai gmgp²tg c| xqrv c rgi dgp²dd o gi i{| f²ug.
 jqi { ki gp< ngx²u c h³nc²u uqm c| gu nko »= fg gdd n pgo c| n³kgv
 ngl km jqi { c| gu nko »m hqi {lpcm jcpgo kpn²dd c h³n^anev ngm
 ul crqt³cpk 0 V³4j gvgvp qr vko k o wac pgo gpi gfv o gi. jqi { c
 euqnc qtu^ai dcp rknrcpv{rci tgpfgmg²utg^am» h²t jgn{gm ul^ao^av
 vgi {g o gi m^aÀr qrk^anl nkpf w»r qv^awn cnf to kn{gp uqnl ki vct/
 vqv ku c èrknrcv⁰ C rgi v³dd nqt³tuc Ài {²tg|vg. jqi { c o ci {ctu^ai
 c v³4²pgk qtu^ai v³i cu vgtgt n nku|qtwkc. ul m jgn{tg³u|gl u^Àrkvc.
 ul kpv gi {o^au³n n³p{vrgp c r³xgi v gn|³pk 0 Mrgdgndgti p²n lqddcp
 ugnk ugo²tg|jvg c o gi euqnc³u h³lfcm^av fg c |u^Àqnu^ai t>n
 pgo cnctv wf³pk 0 ÈPgo c| kw c dcl. ô nk^anqwc ô jqi { v³uqncp
 xci {wpm jcpgo c| c dcl. jqi { cpp{lcp. cj^ap{cp xci {wpm pgo
 fqi q| wpm uqmen v³4dgn 0 Pgo uqm gl gp c fctcd h³4f³p c| c p{qre
 o kn» go dgt. jcpgo ngx²u c n³h³vgw o wpn²lc²u pgo gr³i c| kpvnk/
 i gpe³lci 0 Pgo ul pv o gi jclvqi cvk jqi { pgo c fkr³qo^a2tv²u c
 hz^am^au o cpm²tv ngm vpw³pk jcpgo c|²rgvdgp xcn» h³4f³p{gugdd
 giki c|q^au h³g²vrgkpgm o gi ul gl²u²2t⁰ èfncf dcp c xk^ai m^aÀ/
 rqrk^ank hgrhqi^auc pgo c|. jqi { c pci {qdd wf^au o gi pgj gl³kl c| kngv
 ul^ao^atc c r³v²tv xcn» m³À fng³g³ 0 J kcvnq| km Co gtn²r^atc. cj qn
 »t^auk v³4gi gm r³vqi cv^am c n³4²r/²u h³nu kunq^anev u w^apc pci {
 t²u^À xku|cv^t c vto gn o wpn²j q| 0 H rgi U²ejgp{k K³w^apte wcn
 cnk ul k³v²p c nko xgn go dgth m o gpn pci {qdd ul^ao^au³n x^atc c|
 qtu^ai hrgo gmg²u²v 0 U ul³gugp go rgi gv c rpi {gn v³4²pgk r²rf^av 0
 U^ao wntc e^atk Qtqu|qtu^ai pgo vvg rjgv x² c|^anc³o k jkcvnq^am
 dcp xcn» gj gn{gl ng²u 0 C rpi {gn ul^Àn m o²i ku vpw³vc^am i {gt³o gngk/
 ngv u gl gnd n crcnwv nk c| gt u. ^anc³o w³n h³À i gvgp rpi {gn n³4²r/
 qu v³n 0 P^a n³pm ugo ul cdcf c vpw³vc^au x²i u e²n^awn c jkcvrk
^an³uv vnk³v³pk K³gp²vrgo dgp ngm hgrhqi pwpm ci i qfcm^av<
 èJ c c vpw³m ul^ao^av o²i lqddcp rpp{qo p^ao. c| c x^anu³v³uk n³4.
 co gn{d n c|^anc³o²u v³tucfcm o gt³gv. o²i m³ugdd rppg²u gi {
 ul²r pcr qp cttc²dtgfjgv²pm jqi { c o gi^Àgugf gw^am³uqnev pgo
 rjgv cmem cu go dgtgmg³ dg³v³pk 0 Ngj gv/g gmn³tc d³cm³o cn
 xkcvnq|pk xci {²rrgp ul go dgu^ampk^a Mrgdgndgti c j²v³4 pcr ul q/
 o qt^À xcn³u^aick gn n i qf qrcv dcp hrgo gmgf gw c o ci cu³dd xci {

ngi cñ dd ku c jquu cdd 2rgv xcnu^ai qm hgrj k n⁴2. cj qxa c o gl ^amf dcu i {cñqtrck u| go rqpvm cñki n⁴kgj gw²n0 Jc pgo ku o qpfj cwc nk gn wg c u| gngnel» n⁴tf²u²dgp ku c o gi pci {qddqf qw qtu^ai v²tu²i gk rñdgi vgn0 U jc gl v c rñj gv u²i gv n⁴r| gngv c xcnu^ai qu jgn| gv u^añ(c cñw n⁴p{vgrp xqrv c v⁴xqreddk kf ntg gnqpk cmmqt dk^aw» r²rfc/ n⁴pv Mgeungo²v. Pci {m³u. Egi r⁴f ic| f^atc iqpf qm cñkm c| cñ⁴afk j qo qñp euqf^av o xngm u o clf o²i pci {qddcv o xgrj gvgm jc ic| fcu^aik gtl^angv c o gi hgrn kunu^a|^au o gi uqu| qtq| c0 U r²rf^alw nev n⁴kgj gk dk qp{qucp n⁴kgpk ku hqilc c| gi²u| qtu^ai u cmmqt o kpl^atv pgo rñu| ðm qñcp hñrcu| w» o>fqp uqñp. o kpl^atv rñu| jgn{ c o gi pci {qddqf qw²vgn ku²i u^ao^atc ku#

X²i An o²i ku Mrgdgnudgti pgn rgw pci {qddt²u| v ki| c| c u pgo c o gl ^amf dcu i {cñqtrck go dgtgnpgn0 C| gn^a ðv²xgm wr cu| vrcvck rñj gv x² vqu km jqi { mwn^ar qñkñ^al^a pcm o²tngi²v gl gp c rqpvp hñ^an⁴cpk xci { rñi cñ dd pci {l^ad»n c o²tngi^a n⁴u^av x^a| qpk rt»d^añw0 M^aw²i vgrp. jqi { mwn^ar qñkñ^alc cmmqt rgw xqpc |cxctvcpwn³u| jcpⁱ dcp c| ^an⁴ñ pqu rñkñ^aek xqpcxgl g²u^agn jc c| qtu^ai p²r²/pgm vj gtd^auc. xci { co k gpp²n ku hqpvqudd. c v²tucfcm k²u ic| fc/ u^aik hrgo gm^af²u vgor»lc. c ic| fcu^aik²u c u| qe²l^aku gn²i gf gw²i c mwn^ar⁴l⁴p{ x^ako^ap{ckv r^atj w| co qucp n⁴l²tj gñ0 C hñrcvqm c| qp dcp pci {qp uqu| qt gi {u| gttg lgrpvñl pgn o gi qñ^auwm xku| qp v tgp^au| gtpv eucm uq^la dcp v⁴v²pj gvgñ0 C ic| fcu^aik²u u| qe²l^aku gn tg/ j cñ^au ugi qi {cp ugo w^aq w r²uv v²cpk Mrgdgnudgti j²v²t/ h⁴af gu r⁴r v⁴gn0 G| rñvci f j c v²cpwn gn u³4 p²ok ki c m cv o clf dk qp{ v²cp^ai²t| gvgv n⁴u dd v²cp x^an⁴i qv qnu| qw0 Mrgdgnudgti u| gtpv c| qp dcp gl c x^an⁴i o kpl^agn⁴r r gp. o²i c| qtu^ai o gi / pci {qddqf^auc p²m^an ku eucm^a vo gpgk rñj gvgw xqpc0 C oci {cu^ai vj gtd^a»n⁴r gu²i g²rr gp c mwn^ar ku gn tg v⁴2u n⁴kgvñl o²p{ gn⁴pv u| gtpv o²i c euqñe qtu^ai dcp ku w» r²tg xqpc c mwn^ar ku gn tg/ v⁴2u0 G vñkpv dgp c ic| fcu^aik xñ^ai x^an⁴i ku eucm kf rñi gu n⁴ugf gn² o gv lgrpvj gvgw0 O kpl^a vtu²i²pgm x²i g hñ². 3; 52/ dcp. c h kunu^av x²i| gwgm u^ao c o^at gñ²tg c :6.222/ v0 Pci { u^ao ð c| cmmqt k Oci {ctqu^ai pcñ# P {wi vcp c| qp dcp^a n⁴ñ dcp pci {qdd c| c^ap / u^ao. vj^av c| ^avo gpgk pgj²| u²i gm gmp²tg u| gtpv pgo xqrv o²i m^añ⁴p³ugd k^ag f rgo tg qñ0

Oc o^at o gi^a m^ar ^añ cw». jqi { c| qtu^ai rñu^ai^a pcm² vgn k u| p^axp^arc²rr gp Mrgdgnudgti mwn^ar qñkñ^al^a pcm gtf o²p{ gn⁴pv t^aj co qucp p³kgñf gw0 C| gi {gu hqi rñu^a|^auk^a i cñ dcp. o quv o^at pgo eucm c n⁴u| qñ^a v dcp. jcpgo c ic| fcu^aik²rgv tj gn{ gk ku rñi fvgm pci {qdd u^ao dcp hñv ppk c v r g jgn{ gntg u^apv n⁴ku| qrv go dgth m

c o ci cucdd 2tvgrn k2i gn0 C o gl ic|fcu'idep 3;42/dcp 6525 xqiv
 c h kunqrck x2i|gw2i gm ul'ao.c. ¶ 2x o Åxc o'at 73280 C| kctdcp
 wi {cpgdgdp c| kf n34dgp wi {cpgl c ncvgi »tkc 665:/t>n 7;6;/tg
 ul'erqtqf'qW0 O2i jcvcm cucdd xqiv c mwmw'aku go gmgf2u c| cn»dd
 t2vgi gnp2i0 C| »v gl c hqn{co cv m3p34gdp c ngtgu v'p{ 2tvgrn k2i
 ul'ao'atc. ul'kpv hgnlgeu'aj gvgv'p'An o gi i {qtuwn0 U c Mrgdgndgti v n
 cpp{k'c x'atv jcto kpecu 2xgm x2i2p grkpf'wv c| qtu'iai {ctcrqf'au. c|
 greucvqiv vgt'Agv'gm xku| cv'2t2ug0 Jc pl'p'eu c Mrgdgndgti mwm'Ar qrk'k/
 n'la »n vctv'f'nviv 2tvgrn k2i. o'at c| gnu cm'eqo o'cn pgo ngw xqipc
 g2i go dgt'Ap'm c u'Äi u hgnf'cvqm gn'v'ua'tc0 C xk'gm c| »v rger'cf'v'm-
 gi { fctcdki o'at eucm kw'q'w lgrgl'vg gi {/gi { nkugdd. hqn'v'p hqi { »
 x'¶ v'An34. jqi { ct'chgr' a'tcf'au xqm0 Ngi Åcddcp o'at uqm r'p'v'p
 j'k'p{ o'wcv'q| kn0 Ok ngw xqipc dgn'Ap'm c Mrgdgndgti /vgt'go v'gw
 vctv'f' mp2m'An

C ul'grn'ek» n'f'f'2'v'xgn ul'qtqucp 34ul'gh'Äi i34w c| Å0 p0 pwo gtwu
 er'wuwu r'q'di'f'o'alc0 O2i Mrgdgndgti o'kplu|vgtu'ig gn w. c| gmgp/
 hqt'cf'c'qo gnu n'p'f'Ägv'2dgp cm'q'vc o gi c pgo |gvi { r'fu. pgo w'q'n»
 uqtdcp c n34x2'ngo 2p{ gi { t2ul'2pgm p{qo'au'tc. c v34x2'p{v. co gn'
 n'q't'f'v'q|v c |uk' »n'pcm c h kunq'f'ntc 2u gi {vgo gntg xcn» hgrk2'vgr'v0
 R'atj w|co qucp c v'p'Äi {k n'q'to'ap{ grt'p'f'gng c n342'r kunq'f'ndcp c
 hgrk2'vgrk xk'ui'areqv. co gn'gv c |uk' »u' i ul'k'v'p o'cic gmgp k'ap{w»/
 pcm 2t|gw0 C v34x2'p{ e2'nc c| xqiv jqi { c| 2tvgrn k2i'k r'ana'nev c
 o'cic ct'ap{ul'ao'apcm v34du| 3434'2dgp g'rh'q' n» |uk' »u' i qv xku| c/
 ul'qt'¶uc. k'rgv rgi jqi { c v'x'addk tqj'co qv gl'gp c r'p'v'p i {gpi ¶ug0
 G| c n'f'f'2'u xqiv c| gmgp|hqt'cf'cm k n'q'tu|c'n'pcm c| Å0 p0 ngtgu v'p{
 nwt|wupcm rgi v34ldgv go rgi g'v'w. c rgi j'g'x'gugdd ul'gpx'gf2'n'gngv k/
 icv» r'q'di'f'o'alc0 Gt ugp hqi' n'm'q|v'vc c r'q'rk'k'ck 2u ic|fcu'ik
 n343'ngv gi {ct'ap'v< c r'q'rk'k'ck l'grgi dk'v'q'q'w'c ul'ao'atc c ul'gpx'gf2/
 n'gngv. c ic|fcu'ik n'ereu'qnu' i r'g'f'ki c ul'¶k' »u' i qv0 C o2i o'k'p'ki
 v'Ap{qo »t2ul'v r'ldgt'aku uclv» ul'k'pv p'ert »n'p'ertc v'of'v'c c pwo gtwu
 er'wuwu/v 2'rr Äi {. o'k'p' c n342'r kunq'ck hgrk2'vgrk xk'ui'areqv0 C r'ct'ic/
 o'gp'v'gdp c'ri rgi g'v'w qn{cp n'f'f'2'ut n v'ti {c'p'k co kdg gl c r'q'di'f'o'c
 x'c'ix'qi {cp ô g'ug'vi c j'cl'ap'n hqi'xc gn't'pi'cv'x ô d'rg' p'go
 n'ereu'q'nf'q'w xq'p'c0 C j'gn{|gv p'go eucm d'gr'q'rk'ck ul'go r'p'v' »n
 xqiv pgi2|. jku'gp c r'ldgt'aku n343'm k'ip j'cv'm'cu cp{ci'k 2u ul'gng'k
 gt'xgn t'p'f'gmg'v'm j'cp'go o2i m'Ar q'rk'k'ck'ici ku. o'gtv c n'f'f'2'u
 k'ap'v c P2'ru| 34'g'v'2i ku n'g|f'gw 2'tf'gm f'p'k0 Mrgdgndgti v'f'p' rgi/
 l'q'ddcp ul'gt'g'v'w xq'p'c c| gi2'ul't n o2'n'gp j'cmi'c'p'k0 C| gi {o'au'cn
 ul'go d'gp'm» h'rg'm c|q'p'dcp u'q'm'men j'g'x'gugdd'p euc'v'cm 34ul'g. u'q'm'men
 v34du| 34 gn j'q|v'm c r'q'di'f'o'av ugo j'qi { c h'rg'n u o'k'plu|vgt'p'gm

3; 470 fge0 320²p ngtÄnw v̇ti {cřf'utç0 Mrgdgnudgti gn cf^auc cddcp hqi/ rñj cw» ¾au| g. jqi { c o ci {ct/nqto^ap{ c pwo gtwu ercwuwv pgo vgnpkv^a mcpf» lqi k vto²u| gv dgtgpf| g| ngt²upgm jcpgo qn{cp^avo gpgk tgpful cd^an{pcm co gn| c d²ngul| g| f²u vgtÄngk tgpfgm/ |²ugld n hñk km u c| qppen o gi u| Äpvjy gv. o kj gn{v c v̇tucf cm k²u i c| fcu^ai k²ngv xku| cp{gk^a mcpf»u^ai^a0 C P²ru| ¾kgu²i c n²u²i/ vgnpÄn pci {qp Äi {gugp o gi u| gtngul| vgw p{ krcvñ| cv w²p. co gn| o kpf gpt n dgu|²rx. eucm c n²p{git n d³reugp jcmi cvqw. c n²tf²u h²Äw pcr ktpftg v̇tv. krgv rgi c| gn cfqwnev wfqo^auwn xgw0 C| Äi { c| w²p kvj qp ku. d^at eucm jgxgij cpi Ä xk²m w²p. xku| qp{/ rci qu p{wi x>r qptc lwqw0 C n²tf²u c n²Äx²ngo²p{v cmñt hqi rñ/ nñ| vew kuo²v gt ugddg. co knqt Mrgdgnudgti c| gtgf gk v̇Äx²p{ o »fqu²v̇u^atc vgw lcxrcvqv. co k c| w²p c v̇Äx²p{v̇tuc ku dgr/ ngtÄn0 *3; 4: < ZKX0 v0 C wfqo^ap{gi {gvo gntg. c o gi {gvo tg. c dwf crguk gi {gvo k n²Äi c| fcu^ai wfqo^ap{k nettc²u c lqi cnef²/ o k^antc xcn» dgtcvñ|^au u| cd^an{q|^au^at»n u| »n» 3; 420²xk ZZX0 v0 o »fqu²v̇u^at»i0- C| kpf qnñ^au u| gtpv c o »fqu²v̇u^atc c| gn| v̇Äx²p{ 50 Ä^apcm 50 dng| f²ug o kcw xqrv u| Äm²i0 G| c u| ¾kgt²u| vi {cpku c p²r hlj q|²u pgo | gw²i j| xcn» vctv|^au nt²tkwo^av go rgi gwg. co k Mrgdgnudgti u| gtpv uqm h²ttg²t²utg cfqw cmcm c0 C| kpf qnñ^au o ci^adcp x²xg ukngtÄnw o wpm0 Xku| qp v c| Ä v̇Äx²p{ o kpf gp u| cxc gñtwlc c| v c pgj²| mÄ f gn0 gv. co gn| dg o gi cmq^auc ngtÄn0 Cpp{ ktc tvi cm cu. rqpqu cmcm c|^auc qn{cp dqp{qrvw ucvk| vñek nemwñ/ eknev nñ^appc. vñ^ap u|^apf²nqucp cpp{ ktc j qo^an{qu. ^avgnkvj gvgvgp. ¾pñ^ap{gu cmcm c|^auqntc o »fqv p{Äw» xqrv jqi { c i {cñqtrv dcp cki rñj gvgw xgrg xcmo kv nñ| fgpk0 C i {cñqtrv pci {^adcp c| o ctefv co k c| Ä v̇Äx²p{ gn w xqrv cpp^an ku kññdd. o gtv c hñk²vgn vq^addtc ku c²i kh kñqrc²u gi {gvo kj cw^ai qmlp²| v̇n0

Co gpp{ktg pgo xqrv jclrcpf» Mrgdgnudgti c pwo gtwu ercwuw vq^addk n²r²v̇u^axgn c ngtgul v̇p{ kñÄu^ai qv c | ukf» lgr²vgnm xgtugp{²/ v n c| cffki k^an pci {qdd o²t²v̇ndgp o gpvu²vgnk o gtv g| v c| gñ^at^au v²i kld xgtgv rñkñek i qpf qmñ^au^axcn pgo wfvc xqrpc ¾au| ggi {g|/ vgpk u c rñkñek e²n| g²i ku kññdd dk qp{vcrp jcm c|^ancr qvÄ^anñ uñj rñf uv uwi cm c| qw pgnk cpp{ ktc n²u| u²i i gn^anv c ngtgul v̇p{ h kñqrc kñÄu^ai tgpfgm|²u²tg r q| kñ^a ugi v̇²u hqto^al^adcp. f k^am u| qek^aru k^av²| ngt²ugmgn0 G| gp c v̇tgp. mÄ²p²ugp c o Äñj q| xku| q/ p{ñc. co knqt c I qpf xlgñ^augp nñ^aÄn c| kñÄu^ai u| qek^aru Äi {glxgn cki v̇Ä f³Äw xcnrk fg vñ^ap rñi ngx²udd² c|^amco. xcn^adcp nñt| cm/ cmñ» o wññv x²i | gw0 Xcp gi { ucl^av^ai qu. u| kvg c| gi²u| p{ kñ^a/ pqu^ai tc lwqw i qpf qrcvñ^ai^a»n gnÄv²u| tgx²vgr. co kv c|²tv k²| gm

o gtv o kpj c o²i ku gr¹twp^a. o k o qvq| n¹ij cvqw ci {^adcp c f¹k m¹ u| qe¹k rku rtqdr²o c o gi u| gtxg|²u²xgn n¹er euqr¹v dcp0 C p{^akrvnu| cvq 3; 470 pqxgo dgt 470²p. c n¹4 qmc¹v u¹Äi {k v¹tec n¹4m²i xg²uk v¹ti {c¹f uc cmem^axcn o qpfqw dgu¹f²dgp vgv¹g u c n¹4xgvn¹ n¹r rrp jcp| km¹ ä0 kxgr¹00 cpp{^aku| qt v¹4v¹pv jkxcvnu|^au. jqi { c |ukf^au¹i i {gto gngk/ pgm gi { t²u| g v¹r¹p lqdd v¹pwn^ap{k gn o gpgv¹n o wcv hgn o kpv c ngtgu| v¹p{ kpv¹nki gpekc i {gto gngk n¹kgngpvg¹. jqi { g| v pg o²m¹||/ vcu²m c vgi gw²i j¹k p{^apcm dgw¹pk jcpgo o²m¹|| vcu²m cttc c u¹a o/ r¹tc ¹pk jqi { g| c o ci {ct kpv¹nki gpekc cp{ci kci rg xcp tqo qkx²u pgo n¹r gu i {gto gngkpgm c| v c i qpf v¹crpu¹i qv dk¹ vqu¹cpk co gn¹ i qpf v¹crpu¹i qv j c pgo ku eucm c xci {qppu. fg c rgi v¹4d/1»o »f Ä |ukf^a»go dgt i {gto gngkpgm dk¹ vqu¹cpk wf0 Gj jg| j q|^a vgu go c| v ku. jqi { g| v c n¹4 qmc¹v u¹Äi {k o kpu| vt o qpf lc. c¹n¹pgm r¹v¹pk ngm c r g¹ci »i kck n¹tf²ugm u| qe¹k r¹qr¹k¹ck xqpcvnu|^a uckv ku0 C| qm¹en c nk¹p mgn²u lgrugmgn pgo rgi gv qn¹ pci { o²t²ndgp c n¹kc¹nc¹dc o gppk o gtv g| gm o³4³4w c nk¹p m²u lgrugm o³4³4w c vÄn¹» qf¹crp qw xcp c p{qo qt²u c p{qo qtd¹»n h¹nc¹f¹» n¹q¹r¹v¹nu¹i 0 J c c| c o ci {ct i {gto gm pgo wf cpp{k gt v n¹kg¹v¹pk o kpv c| c |ukf^a» i {gto gm cppcm qnc c|. jqi { p¹k¹eu Äi { v¹r¹r¹ic. xci { o gtv j¹k¹gi u| qd^adcp r¹nk¹m co gn¹(dgp p¹k¹eu x¹n¹i ¹u0 Pgo rgi gvpg c| v o qpf c¹pk jqi { g n¹kg¹gp/ v²u²dgp pg ngppg m¹kk¹»nj c¹» t²u| 0 Uqo o^aucp^a n¹cr¹pqu¹» tqo cpk/ m¹wcp u| ¹pg|. vi cf j cv¹crpwn p²o k o gn¹r¹n¹|| gr0 Mrgdgnudgti r¹qr¹k¹ck »x¹cvu¹i^a v h¹i {grgo dg x²xg t³4 v¹p|²upgm r¹v¹kn co kv v¹r¹p gi { i gu| wu. xci { x¹cr¹o k hgn ugo lgi || gw n¹4 dgu¹»r¹u x^an¹qw n¹0 Cpp^an²tf gngugdd xku| qp¹ o gtv v¹r¹p c¹nc¹v¹crpwn ku gr¹twlc. jqi { f¹k m¹ u| qe¹k rku kp¹v| ngf²ugkxgn gm uqtdcp c ngtgu| v¹p{ h¹Äi^ai pcm h rgi c n¹4 cmem c| qwcm i {gto gngkpgm xgtugp{ n¹r gu¹i²v c¹nc¹vc dk¹ vqu¹cpk c| cp{ci kci ngf xg| dd j gn| gvdgp r¹x o^au²v¹gi gmgn¹u| go dgp0

Gri qpf q¹uc c| xq¹n jqi { c mÄi¹4f k eqn¹i kwo qm n¹k¹r¹ v¹ug w¹p c| Ä0 p0 äeqmgi k f qo gw¹eci pci {qddc^ap{Ä hglrgu| v²u²v xgu| k uqttc0 C pci {qddu| cd^auÄ f¹k n¹»r¹vk r¹qr¹k¹ck n¹k¹r¹ v¹u²tg xqpcvnu|^a » v¹txgk o^at gr¹i n¹q¹t^a p n¹kc¹rc¹nc¹m u dgn nÄm pci {qp uqm o gi ku x¹cr¹uw¹n0 N^awm o k¹gp o gu¹ go gp v¹txgk xqncm c M¹tqn¹k¹xc| {qp l³xf gn¹ o²pgm h¹ij cu| p^ar¹u¹xcn n¹er euqr¹v dcp0 C v¹txgm kf m hqn¹(co^ap v¹x^add hqtqpi vcm c¹rc¹nc¹nc¹0 Kp¹v| ngf²ugk n o^at 3; 48/dcp o »f lc xq¹n t²u| rgi gu dgu¹ o qn^av¹cf plc0

Dw¹cr gu¹gp v¹r¹p c rgi pci {qdd cm¹u¹uc xq¹n c J qt¹ {/eqmgi kwo 0 Co knqt o kpu| vt rgw c Pcf^auf {/rcmcp{^adcp gi { h¹r¹ki n¹v¹q¹ck h¹r¹ki h k¹un¹ck k¹v¹tp^awuv v¹r¹nc co gn¹ c| qp dcp. o knqt o gi r¹v¹q¹ c¹vc. kn¹dd p{qo qtvc^apcm o kpv k¹v¹tp^awupcm r¹v¹ku qw0 G| v c| kp¹v| /

o²p{v c|cn u|cdf[¶]qwc nk o²ncwcp jgn|g²d n jqi { o gi u|gtg|vg
 u|^ao^atc c ucufk nmcpc{c n²v rcxkn[¶]pl^av u qw c| gi {gvgok²u o /
 gi {gvgok jcmi c^wm u^a|ckv ki gp lw³p{qu^at²tv. xci { kpi {gp jgn|gl/
 vgv² gr0 C x²i u i²w[¶]u^ao qv 972/tg vgtxg|vg0 I qpfqumqf[¶]qw r^ap{qm
 u|^ao^atc ku o gi vgrgn Æ l[¶]pvtp^a wuqnt>nc= gl gm n²4³4v xqiv c Dgvj r[¶]
 O cti kv² u c Uctqnc r^ap{lpvtp^a wu0 Dw²cr g[¶]u[¶]gp ku. xlf²ngp ku h r[¶]i c
 o qf gtp p{grkk u|cnqu vcp^at lgr²4m m l[¶]pvtp^a wuk grj gn|gl²u²v vctv[¶]qwc
 c r[¶]i h[¶]pvqucddpcn0 O k[¶]f ki c^wn l²rw. jqi { c r^ap{kn[¶]q[¶]m u|^ao^atc
 o clf pgo r[¶]u[¶] gr²i vcp^atp lg0 G| c| ci i qfcm c n²u dd v[¶]q[¶]pcm
 dk qp{w[¶]0 J quu Æ k[¶]f gi xqiv dgn n²Am r[¶]i c[¶]nd gi {/n²v²xk[¶]gftg. u v
 o²i jquu|cdd kf tg gr[¶]i g[¶]pf vctv[¶]r[¶]n[¶] M[¶]g x[¶]gv i q[¶]f q[¶]rcv xqiv c
 h kn[¶]q[¶]ck l[¶]pvtp^a wuqmen ner euq[¶]rcvcp c o qf gtp p{grk[¶]gm vcp[¶]u[¶]o[¶]
[¶]{ cnetv gr²tpk jqi { c|qm ku. cnkm pgo ngt[¶]ñj g[¶]v[¶]gm m²4[¶]tg.
 cmem cv p{gtlgp[¶]gm p{grk[¶]v[¶]w[¶]ut[¶]c. co kv c r[¶]i h[¶]pvqucdd fqi qm
 gi {kn²pgm vctv[¶]q[¶]w0 Æ J^a p{u|qt r[¶]wco x²t| u|[¶]xxgn ô [¶]lc ô jqi {
 nk^a n[¶] w[¶]a[¶]u[¶] go dgtgm tgp[¶]f n[¶]ñ[¶] Æ u|gm[¶]go gu go dgtgm cnkm kvj qp
 c r[¶]i pci {qdd o gi dgeu[¶]ñ[¶]udgp t²u|gu[¶]ppgm c| kf gi g[¶]gm gn w j²p{qu
 p{grk[¶]kuo gtgv[¶]Am n²4[¶]gv[¶]g[¶]v²dgp i {^ao qncrcp go dgtgm dgp{qo^au^av
 v[¶]u[¶] kn0

C xlf²nk pci {qdd x^atquqndcp. h r[¶]i c| gi {gvgogmgn ner euq[¶]rcv
 dcp. gi²u u >^av i²v[¶]u[¶]g[¶]wg c fl²n[¶]i>r[¶]vk l[¶]v²|o²p{gmpgn0 R²eugw gn /
 u³4 gi { kn[¶]q[¶]ck 2[¶]r Æ²gv²dgp tgp[¶]f g[¶]vdg kf gi r[¶]gp[¶]g[¶] c Pci { Nc lqu/eqmg/
 i kwo qv. co gn[¶] n²u dd x²i r[¶]i gu jgn|jg| lwq[¶]w0 C r[¶]i u|gdd²u r[¶]i pc/
 i {qdd r²euk cm[¶]q[¶]v[¶]uc g²v²tp o²i ku c O cwtlpwo r[¶]gw. co gn[¶]{p[¶]gm i²v[¶]u[¶]/
²u²jg| o^auqm o gmgw c vcpw^ap{k crer ku jq|^al^atw[¶]0 U gi g[¶]f gp
 jcvcm cu ct^ap{qndcp n²4[¶]r[¶]g[¶]wg c J q[¶]v[¶]{/eqmgi kwo qv. co gn[¶] c
 o ci c pgo²dgp u l[¶]pv[¶] gi {gf Æ[¶]m[¶] l[¶]v²|o²p{ xq[¶]n0 W[¶]{cpeucm U gi g[¶]f/
 tg vgtxg|vg c vto²u|g[¶]w[¶]qo^ap{k vcp^atlgr²4m[¶] u|^ao^atc c| G³4x³4
 N>^apf/eqmgi kwo qv. co gn[¶] n²u dd o gi ku xcn>u[¶]w²u c p k G³4x³4/
 eqmgi kwo qv. co gn[¶] eu[¶]m vgtx o ctf[¶]0 F gdtgegpdp[¶] gr[¶]lv[¶] n²p{vgr[¶]
 xqiv u Æ[¶]m² i o gi q[¶]r^au[¶]cn d²tpk u c| qvc[¶]pk vcp[¶]«k^atxcj^a| gi { t²u²v
 c[¶]cn[¶]«w[¶]c^av h kn[¶]q[¶]ck l[¶]pvtp^a wu[¶]0 C| ki c k x²i r[¶]i gu o gi q[¶]r^au[¶]tc
 c[¶]cn[¶]«w[¶]c n²4[¶]r q[¶]pk gi {gvgok 2[¶]r Æ²gv i²v[¶]u[¶]g[¶]w²xgn ner euq[¶]rcvcp ngt[¶]ñj g[¶]w[¶]
 uqt0 C| l[¶]pvtp^a wuq[¶]m²u o gp|^am h[¶]pp[¶]ct[¶]v[¶]tc n[¶]g|fgw n h[¶]i xc ki gp
 lgr[¶]v²ngp{³4u| gi g[¶]gv[¶]u[¶]p[¶]0

Vqx^addk vgtxgk gi {km nk[¶]p o v[¶]nc[¶]v[¶]t[¶]pcm ugi [¶]u²i²xgn o²i
 pci {qdd ct^ap{qndcp dq[¶]v[¶]cm nk0 G| g[¶]ngv c|q[¶]dcp eu[¶]m t²u|dgp
 xcn>u[¶]«j[¶]cw[¶] o gi 0 M[¶]w²i vgr[¶]. jqi { l[¶]v²|ng²ugkxgn gi { o qf gtp.
 c[¶]f[¶]ki gnugo n²4[¶]r|gr[¶]f[¶]l[¶]n[¶]i>r[¶]vk dgtgp[¶]g|ng²u c[¶]ncr lckxg[¶]wg o gi 0

C| gi {gvgok n²4[¶]t²u[¶]gn ner euq[¶]rcvcp r[¶]i c[¶]nd x^a|rcv[¶]q[¶]cp kuo gt/

vgl. Am Mrgdgnudgti x^atqur qrksknek v⁴gnx²ugk0 Gtt n c v⁴ti {t>n wrcl/
f qnr r r gp m⁴rp n⁴gvvngj vpgv kng²ngugdd hgrf qri q| >pcm⁴plc#

C x^atqur qrkskne p^arc c rgi ul qtqucdd ³au gh⁴i²udgp^amv gi²ul
m⁴tr qrkskn¹ xci0 X²rgo²p{g ul gtlpv c o xgn f²u r⁴vgtj q| >k gm /
uqtdep c x^atquqno | rrgp gl²tv ul gtlpv o kpf gpnkpgm jc c o xgn /
f²uk lgnpu²i gm crer qnkv nwcvc. vcr⁴maj plc ngm c x^atqur r qrkskne
h dd rtdr²o^akxci0 Glv c v²vrv c rgi m⁴rp³dd ul go r qpvqd>n
v⁴ddul³ a⁴vi qpf qnc²u o gi xk⁴i⁴qvc0 C x^atquqm ³au gv²v²v n jcw/
n⁴r gu²i²v n h⁴i i. xcp/g xciro gn{ qtu^aidcp o²n{gdd hji²nq{u⁴i
c m⁴rc k^apv0 Mgf xv⁴uugn hglvi gwg c² wdu²u wtdcpkcu c ekku
2u c ekkk⁴ek> rgi dgpv dd. hndqvj cvvcp ³au ghq>fqw⁴i^a0 Cj qn
ngx²u c ekkk⁴i. qw jk⁴dc ngtgup²pm pci {qddhqm⁴ m⁴wt^aru²|²ngp{/
g²i gvc² äX^atqur r qn^at²u o xgn f²u ³au gvctaj > ²u ul²w^arcul v cvv/
rcp hji cm cni0 C x^atqu ucl^avqu vgo²n⁴pgm vgnkpvwg c r qn^atv c
o v⁴nc. c d²n⁴u hln f²u. c o²tu²mgv n⁴rxkug²l²v c v⁴tucf cm k n⁴r/
ngv mgi v⁴n⁴ngugdd gi {gpa⁴q| >rgo²0

Mqtc hl⁴u^awn ngj f xg o kpf x²i ki. ²ngv wqn> ²x²dgp vcr⁴p c
rgi pci {qdd gm²n⁴u⁴u⁴gn vcpw^ap{q|vc c uqnhgr² ul²v⁴i c| > n⁴tf²u0
O kpv o kpf gp rtdr²o^av glv ku i {³ngt²p²n ki {gnj| gw o gi hji pk² rrgp
gl²tv uqnev hji rcmaj| qw c| Ä0 p0 x^atqu⁴r|. x^atquhglruv v²p{gl m⁴
ngi0 U Äi { vcr⁴nc. jqi { dl⁴q{qu pci {q| ul Äm²i gu. p^an⁴pm c| qdcp
j k⁴p{| > x^atqu⁴vuv c vlc p qk qtu^aidcp eucm c| gi {gvgo gm ugi⁴/
u²i²xgn wf r⁴vgtj q| pl0 Gl gp c r qpvq xcp c rgi dgpv dd ³au gh⁴i²u
p^arc gi {gvgo r qrkskne²u x^atqur qrkskne n⁴3⁴0 Fg vctvwpm dl⁴q{qu
uqtgpf gvur t>d^arlwml⁴gx^ai > i qpf qrvk⁴i^avi gpgv⁴ucp x^a| qrp0

O^at hvcvmtk m⁴4⁴k Älclp c rgi pci {qdd i qpf fen h⁴i {gnv c
x^atquqm²ng²0 Lngv| r r0 c| c ul kpv ci i qf cm cu gn n⁴u Ägv. co gn/
n{gn o²i gi {km 3; 28./k wc|^au⁴v g ul go r qpv>n gn tg o gi crer q| vc0 Gmqt.
co kpv lgi {| gvkd n o gi^amer⁴j cv>. P²o gv. Hcpek/. Cpi qrtu^aidc.
J qncpf k⁴dc. Dgn kwo dc²u Uk^aldc. vj^av c x^atqur m⁴rc m⁴rcul kmu
qtu^aidcde n⁴u Än0 Gn tg hngvgo o ci^adcp. jqi { h rgi c x^atquqm
²ng²v vcpw^ap{q|c. ogtv ul gtlpv c x^atqu/Äi { c pp{ktc hqvqu c
o qf gtp²ngvdp. jqi { o kpf gpnkpgm cnk eucm v⁴xqt>n ku r qrkskn⁴xen
hji rcmaj| km²tf gm f plg ngm k^apv0 Wcn cttc. jqi { c x^atquqm hgl/
ru| vgw²m nk r r0 c dgn⁴{k n⁴4 ki c| i cv⁴uv. co gn{ c o qf gtp^anc o /
n⁴4²u²pgm rgi hqvqucdd o q| c pcv0 Tcr ul qf kmu hndgi {²ugkdp hnd/
uqtgnc c p²o gv x^atquqm ul qnx^ap{qu cmv²ul gk< hrcm vtp{qm
ner wn x^atquj^a|c. ^atveuctpqnqm r cv⁴ekwqm j^a| cl0 Fleu²tgwgn go grk
nk r r0 P Äpdgti rncqukpcm v⁴v²pgv²u o x²ul gv²|²n⁴v. co gm{gn
c ZKZ0 ul^a|cf o kpf gpv plxgn⁴n>. tqo dq> f Äj²xgn ul go dgu^anc c

t²i k x^atquk 2^r¶²u|gk go r²ngngv o gi tk²vⁿ0 U|go dg^a n¶|c | |gn p^gxgn / x^atqu^a pcm U²nguhj²tx^atpcm gr^at^au^a0 C x^atqu rqi^atck c t²i k o ci {ct nqtq^a| »x^atqupcm wqn» m²u go r²ngk. c o²i o gi r²x v²rnev. ncr wnev rgtqo dqn^an0 Eucm c| xki cu|vdc. j qi { kn(guo ktg m²¶²af³p ku r²iqw gr²i r²if^a< ädk qp|. c mwa²c co c ruxcilcpem n²4²dgp ku xqncmpci { u^a o o cnkruqpmcu| vⁿ0

G hcvcmqtk hgrigi {|²ugndgp gi {gn tg kpn²dd } l^atqun²r fgo kp^ai0 Gttg n²u dd ku ki gp pci { i qpfqv hqt¶¶qw0 N^awm o gpp{ktg h²lv pgnk c| Ä ki c|u^ai Ä {k o kpu| v²tkwo pcm gu| v²knk u|go rqpvdⁿ ngf/ xgl vgp hgnx²ug. xci { c dwfcr guk pci {n²4^apcm d²ncu^atp{^amen xc» vrg| uwhq²uc0 Go rgi gk o clf c| Gt|u²dgvj ¶ n²4p{²n²v c Rgv h²vgtgv co gn| u|gtkpv c t^ar|ctqiv »tkuk n²4u²i gm gmpp²tg ègi {kn² Dwfcr guv rgi euwp{^add vgtglp²m u v xkfi tgr²ek>dcp ku c| gi {km rgi / u|gtgpeu²vppgdd x^atqu|cd^an|q^auk gr² qpf qir u²0 O clf hgm gi { c x^at/ d^auv{^atc. j qi { ku qp{qfxc o gi u^ao r²lc c u|go g gr² o gtf v| hcr²m u^a|ckv co gn|gm c x^atqun²rgv vrgugp grtqp^an0 Fg ruucpkn²p v o²i ku kpn²dd dgr²it n p²|k c n²tf²uv< c mwa²c. c ic|fcu^aik²rgv u|go rqp v l^ad»i0 Pci { o²t²vndgp jcvjcwem t^a c|qm c vpw^ap{qm ku. co gn|g/ ngv n²4 ki c|ic²uk d¶»k o kp u²i dgp ngngw c j q|l^angt²Äv Ä {gmgn ncr euqivdc c x^atquqm²rg²t n x²i gl p²g0 Pci {hqpqu^ai Ä fqmwo gp/ wo vx^addk hgn f²u²p²gm kuo gtv² u|go rqp v l^ad»n c| c vcr²p 3; 39/d n xc» vpw^ap{c. co gn|gv hgrigi {|²ugk tk²vm o gi u^ao vpmc0 Gddgp c x^atqur qrk²mw Mrgdndgti o^at vrgu hgi {xgt|gdgp^a m gn w²Äp²0 C vpw^ap{v²rr gp gl²tv²u|rgvugddgp ngmkuo gtv²pgo 0

Gddgp c| kf dgp ô c xkfi j^adqtÄ wqn» nqtu|cn²dcp ô gt ugp hqi rcmu|vew^am c j^adqtÄ w²p o gi uqncuqfxc u|p{gi tg ngt²Äj gv m²¶²pd³4 rtqdr²o^an0 G gm n²4² uqtqnc c x^atqukuqf^au n²tf²u²v ku0 i { vcr²nc. j qi { èc| Cn²¶²af³p²u c Fw^apv²Äqp c h²af dktvmpcm ngf/ xgl vgp o gi qu^ar²uc o gm²w xk²nk x^atquclpm hgr²v²pu²i g pgo |gv²Äp²m rgi pci {qdd u|gtxgl gk hqi {cv²nqu^ai c0 Xk²nk x^atquclpm r cpi cpcn0 Uqnep jclmpf »m ngpp²pgm o gi^a ncr ¶|cpk j qi { g r cpi^au qne wvlf qp/ n²r r gp c h x^atqu f²f gn gv²ug< Dwfcr guv u|¶|c gn c| qtu^ai o kpf gp x^atqun²r| gtl²v0 Mrgdndgti |v c uqo^au ¶²rgv pgo qtu^alc0 Xcp wi {cp dgppg xcrok ki c|u^ai. fg xcp uqm v²Ä^au ku0 O gir t>d^arlc c n²tf²uv²v²pgk²xrvc^a n¶|xc v²ti {kci qucp gnd¶^apl0

Co knqt c ZXK0 u^a|cf dcp nk hgn f³4w c egpvtck^amw^amco. gi { / kf gl rgi o gi kpf wv c h x^atquqm nkrcnwi^auc ku0 P^an²pm gl c hqn{co cv pci {qp ruucp o gpv0 Crr l^adcp x²xg c ZXKK0 u^a|cf dcp ugo xqv o²i h x^atquwpⁿ0 Rqrk²nek²u u|gmgo k i {gpi gu²i Äpmpgm vcr²p gi {km qne xqv gl c pci { j²p{0 C| gzegpvtknw hgnx²u Rq|uqp{d»n²u Mq/

n|ux^atd>n ugj qi {cp ugo ngj gvgw xqipc ki c|k h x^atquv euk^aipl0 Gppgm u|Ăm²i u|gt gp c Fwpc rctv^ap. n²4rqpvk hgnx²u jgn(gp nngmw nk/ crcmwplc0 U c hgnf²u gn ku kpfwv. co knqt c jgn{ctv>vcp^aeu²u c nkt^an|k nco ctc Rq|uqp{d>n²u c| gi {gvo Pci {u|qo dcvd>n c| kngt/ x^atqudc ngtĂn0 K²v²rĂn hgn c Pgo |gk U|p^a|. kw crcmwv nk c Pgo / |gk OĂ gwo. kw ng|fvg gn o n²4²u²v c| Cnef²o kc0 Cppem kf gl²p L>|ugh p^afqt²u U²ejgp{k Kvx^ap xk^ai qucp hgnuo gt²m c h x^atqu/ r²vgn²u f³/pv lgrgpv u²i²v0 C nki {gl²u nqt c g²tgp crr l^adcp x²xg c| o wpi^alwnev hqn{vcw0 C| 3:92< Z0 ve0 u|gtxgl vg o gi c n²4 o wpm/ vcp^aeuqv u gi {Ăwcn o gi hrgn r²p|crrqv r²vgn²vgw. c| 3:94< ZZZXr0 vg0 rgf ki lqi kci ku o gi cmqvc c n²v x^atqu gi {gn²u²xgn Dwf cr gvg0 C| Ń|{ vgtgo vgw crr qp o gi kpfwv Ăcdd hgnf²u vcr p gi {/n²v rqp/ vqp vĂm w c e²npp. o kpf gpgvg c| qdcp c ngi hqvqucddcv. c tci {qi > h x^atqu r²vgn²u²v gr²vgn0 Dwf cr gvgpm o quv o^at plpeu u|Ăm²i g vx^addk i {^ao nqf^aut= gr²i gt u cjjq|. jqi { c vgtxu|gt u|qek^an r qrkknck²u gu|vĂnck vx^addhgnv²uv c l³/k dgp ³/po ci^atc v^ao cu|/ nqfxc gr²i gl|g0 Grlwqwwpm qfc. jqi { o quv o^at kpn^add ng|fvg²v xgj gk c vgtxu|gt fgegpvcrk^aek>0 Mrgdnudgti r r0 pgo²tk o k²v ngm ngt²u|gk kumq^av. u| n u|gk kp²|gvgv. fqj^ap{i {^atcnev uvd0 Dwf c/ r gvgp. ct^ap{rci ki gp ft^ac vgmngp r²vgn²vgp²u hppvctvpl# C kumq^am gi { t²u²v ku h²4/4rgi gvgp |uĂhn^am c h x^atqudcp ³/u|g0 fmc/ r²dcp c vku|vkngn npgm c h x^atquk²rgv w^apk x^ai {c uqm qn{cp kp²/ / o²p{v jq|qw c h x^atqudc. co gn{gnpgm o^auww lqdd jgnĂm rppg0 G|gn u|go dgp o²i ngi pci {qdd xk²nk x^atquclpndcp ku c mwnĂt/ go dgt c o qf gtp²rgv o gi u|qnqv n²p{gn²v²u crt> ³/4/0 glv p²mĂ/ n²4pk n²p{vrgp0 C dclqnp eucm c xk²nk x^atquqm o gi hrgn hgnv/ v²u²xgnrgj gvg ugi Ń|gpl0

Dwf cr gvg gr² mĂ²4rgi gu e²nqnev ngm v|pl0 K {gn²|²m gr²tpk c|v jqi { c Fwpc n²4²ru²u cnu> o gf gpe²l²pgm h ngi o²i ku c Dcn/ n²ppcm ngi hqvqucdd rkec ngi {gp0 Ogi ngm cmqvpk Pci {/Dwf c/ r gvg# C dwfck xlcu qu. xcuwcv nk ngm xlpk Gu vti qo ki. jqi { c n²4 dgp ngtĂn gi²u|u²i gu jgi {xk²m c p{ctc^au²u nksgrgf²u u|^a/ o^atc n²x^apcvu ngi {gp0 Ogi ngm²r²vgp c| >dwfck²u n²i {o^ap{quk Ă jkfcnev0 Hgnv|vgp ngm c jcl>^auv= o gi ngm²r²vgp c| Ă krctk²u ngtgungf gmk nkn²4 v= pgo u|cdcf vx^add jcrqi cvpk c Fwpc/Vku|c eucvqtpc r²vgn²u²v0 G|gnpgm wclfqpn²r r gp o^at o kpf gn nngmw xqipc n²u|Ăpl²4m u vcr p gn ku n²u|Ăngm xqipc. jc c o kngppkwo w^ap c pgo |gvgp gt v pgo xgu| c ogff u²i. c rqrknck d²pcu^ai. c pci { hgn/ cf cvqm>nk >> pgwtcu|v²pk^au ci i^an{quqf^au u| gmgo g0

C Dwf cr gvgp lo o^at h²4/4rgi gu²u pgo ku n²x^apcvu^a nco k kp²/ /

o²p{gngv pgo ulcdf vx^add c h x^atqudc v⁴pk jcpgo c xkf²nk x^atquqm n⁴3⁴v n^gm gi²u²i gu o»fqp ul²vqu^lvpk0 C| ¶ { ul²v v^gnr ¶gw jkxcvcpqum c| kngv x^atquqncm pgo eucm ic|fca²ik gt v lgrpvp^gm jcpgo c ul^gngo k²u v²tucfcm k²ngv ul^lpv²pgm go gr²u²/ jgl ku jql|^atwpcn0 ËEucm cnk kuo gtk ul^lwpp{cf». c xkf²i wⁿ gr²atcp²n. c pgrq^lo wu netlc^ldep r²x xkf²nk x^atquqm v^gur^gf²u²v c| w^llc. o k^lgp ul^lAm²i xcp ctte c o q^li^autc. gr^gx^gpu²itg²u n^gl²f²utg. o gn^lgv r^at kf^gi gpd n l³4w. v²i cdd n²wⁿ4. v^gwtg n²ul jkxcvcpqm d¶». Æi {²ul. w^pa^t. o²tp³mx^lj gvdg c jgn^lk²ngvd0

C n⁴4kp²|o²p{gm²ul^lgt gqu^lv²uc²u euqrqt^lv^luc m²4p³4 ugp cmqt r^ggv pci { o²t²ndgp x^atquh^lngul v²p{gl. jc c|^amco²u x^ato gi {g n⁴2 uknt² Æn dgkncv^gwp^gm gi { n⁴4d^ggu. o ci cu^lddh^lqn² tgi k^lpa²ru n⁴4ki c| i c²v²uk ul^lgtx^gv0 Mgdg^ludgti ki gp pci { j^lpa²pcm v²lc. jqi { p^awp^gm pl^geu xc²o k v²tqo^ap{/l²rg c²m²w²v0 C v²l² jcl²q²w e^gpv²er^lo wudcp ul^lgpx^gf o ci {ct^amco ul^lgt^lng^lgv o g²ngw c v²4x²p{j²cw²i. cm²t x^ato gi {g. cm²t x^atqu r^gi {gp ku c|. v²Am²i qucp n²eul^g{. v^gi^av gt v^gp gi {u²i c| ki c|k x^atqu²r²|²uj gl 0 Xku^lqpv x^li {^al/ pwp^gm n^gng^g. jqi { m²4p³4 ugp c H^gnk^lf²ng²u G²f²n²dgp pg c²m²w²/ jcu²cp^gm nk xc²o k pgo^lgv²i k v²tqo^ap{/l²r²n²# G²tg c l²x^gl²gf²/ r^go tg ku i q^lpf²q²rc c n²4x^gmg^l x^atquqncm pci {q^ldd e^gpv²o q²m²i xc²» n²h^lngul²v²v v²tcp^a ul^lAm²i gup^gnc Fg²dtge^gp. I {t. M²cuuc. M²q^lul²x^at. O ct²qux^au²tj gn^l. P ci {x^atc². R²eu. R²l²uq^l{²u Vgo gux^at0

V²tx^gv n²ul^lv²gi { o^auhl²vc x^atqu^lv²wu. c| k²u²rc^ax^atqu p²r²ul^lgt / u^l2²u²tg ku P ci {ul^lqo d²ev R²rc. Gi gt. U²tqur²c²m P ci {gp{gf r²if^ak n²dgi p^gm ul^lgo g gn w U m²4p³4 i q^lpf²cn ul^lgt^gv² vx^addh^lngul v^gpk c xkf²nk gi {g²vo k x^atquqnc² M²q^lul²x^at²v. R²l²uq^l{v²u Fg²dtge^gv0 P go jgn^lgug²p² r²l²o jc c v²tx^gl²gw n²v Æ o gi {g²vo gv M²cuuc. Ul^lgi gf. xci { Vgo gux^at n²er²p^a0 G²ngv c o^at gi {g²vo o gn d¶» x^atquqndcp n^gng^g o gi ul^lgtx^gl²pk jqi { c v²4²v²u²gn ki c|k w²fo^ap{qu n²4p{g/ |g²gv v²go w²pn0 Ul^lgt^gv² gi {gu^lg²pk c ul²ul²v²»v²4rg o Æ g²wo q²ncv. t²pf²gl²pk c ul^l¶j^a/n²tf²u²0 ©i { i q^lpf²q²rc. jqi { gi {/n²v pci {q^ldd x^atquw²m ul^l¶j^a|c o^at o gi²tgw c|^amco qu^lv²ut²0 G²l²gug²v²dp c d²w²c/ r²guk P go |g²k Ul^l¶j^a|²u Qr²gt²c^a| h²cv²redd gt kv ku l²q^ld²dep nk r^gi g²vp^g j²cul²p^arp^l0

M²Am²ngi gu i q^lpf²qu²f^au^apcm v²ti {c c ucl^av²u o ci {ct x^atqu/ v^lv²wu. c vcp{cx^atqu. xci {. co k²v cmqt g²ng²gl²v². c ëw^apl²i x^atqu0 M²fu dd c ëw^apl²i ul^l» m²4p³4ngi gu r²q²nk²nc |co cv²v p{gtv u²rr²gp g²l²tv i {c²pc²nf²xc p²|v²0 C²mqt o²i ci i^an^l p²m² Æn j²cul²p^anc0 Gi {²d/ n²pv Ul^lgi gf²tg. Ul^lcdf n²tc. ²u Fg²dtge^gptg i q^lpf²q²l²0 G x^atquqncm o k²v n²4r²q²v²ncm c vcp{^am v^lg^ltg²v n^gng^g gi {u²i gu ul^lgtx^gl²g²d

hqi rmpkqñ0 C| rpppg c ucl^a quu^a iwm jqi { vgrhqpj^a n|cv i² r nquk² u o qvqntgt² m^a t/hqti cmqo ugi ¶w² i² xgn c x^a tquk² rnv gn p{gkv c| qtxquv^a ncvqtxquv i { »i { u| gt^v tv tgpf tv r crqv c vcp{^a m rñqu/ u^a i^a pcm ku n³ p{gp² u ct^a p{rci i {qtucp j q|^a l² tjv x² vgi {² mì Hqpvqupcm vctv^a. jc c pci { vcp{cn² r| gt xgn d¶» x^a tqum n³ g/ r² dgp c pci {dktvñqnev u² v² ctcdqp^a n0 G| rpppg c| cfqw gugvndgp c x^a tquhgru| v² u rgi o gi hrgn dd hqto^a lc0

Mk² t c n³ r² rgn² ur qrkñi tc. co gn{ n³ r² ãn u| gtlpvg pci { dclqm² u o wcu| v² uqm hki {grj gv m o gi < Mqm| ux^a tt>n gi² u| nrgvk Gtf² n{dg eucm pci { ngt² ãn xgn rj| gv grlwpl= I { tpgm plpeu n³ r² xgv² p³ ãu| g/ n³ r² xgv² ug c Eucm n³ r² | gn= R² eu c Cñ² r² ft n ciki n³ r² gñj| gv o gi u gi {² d/ n³ pv ku nko ctfv c uwi ctcu j^a n| cxd>n= Mcur^a pcm plpeu³ ãu| gn³ xgv² ug \ go r r² p/o gi {g x^a tqvcrp t² u² xgn j qrw c nreucrv ic| cfu^a i k u| go r qpvd>n hqvqu rppg ud0 fncr dcp plpeu x^a tquhgru| v² u o gi / hrgn n³ r² rgn² ur qrkñe p² m^a r#

C vx^a dclndcp h rgi c x^a tqum mwn^a r qrkñek hrcfcvkv luo gt/ j gv0 Hqi rcmq| km c p² r kmqr. c nkuf gf >x^a u. c ic| cfu^a i k u| cmqnev² u. kctk u| cmcp ¶w^a n³ r | 2 u. c u| ¶j^a | cm ud0 n³ r² t² u² xgn0 Hgn n³ r² | c| v c n³ r² xgv² m² p{v. jqi { o kpf gp x^a tqupcm rgi {gp n³ r² p mwn^a r qrkñi lc. eco gn{ c o ci c ucl^a vqu j kcv^a u^a d>n nkpf wkc pxxgrk rqi^a tck c ucl^a vqu e² nm o gi xcñu^a ¶v^a u^a tci 0 Hgj ¶k| c hki {gm gv c ngtv^a tqv/o q| i cmqo tc. c o wñi u^a | cm² r ¶² u² pgm hqvqu^a i^a tc0 O kpvñ² pv cl^a pñ c dwf/ r guk Y gngtr/ vgr gv. co gn{ g v² tgp ej c|^a pm rgi pci {qdd u| qel^a r/ r qrkñekcmq^v u i 0

G vpw^a p p{^a ngtgn² gw³ ãu| gh^a i hrgi { |² ugnp n³ r² ãn u|² v u| >vcp pci {u^a o ã x^a tqurcvku vñek cfcvv^a n³ r² | qv lgi { | gvk dgp³ ãu| g0 O kpf gl gm gi { ãw o wcv^a m o gnu² tc i qpf fcn n³ u| ãw hgn Mrg/ dñudgti c d² ngn³ r² u w² pk x^a tqur qrkñek hrcfcvqm o gi qñ^a u^a tc0 C d² ng c| qpdep gi² u| gp o^a un³ pv ãv³ w nk o kpv cnu² tgo² n³ g0 C o gi / euqñi qv qtu^a i dcp g v² tgp ku lgnp² n³ gp {gp o >f quwv hrcfcvqm n nrgw u^a o qpkc0 C| c rrgk gm o kpv r² vk hqi lwm pci { l^a dcp c t² i k gm o ctfvcm c t² u| rñv hrcfcvqm| qpdep r² p {gi gup gnq>f vñ0

C Dwf r gv u| gtr² t n² u hrcfcvñ³ r² t n xcmw hrgi^a u^a v ku dk q/ p{qu o² t² vñi n³ p{vgrp xqv n³ u dd tgv ¶k > cr² xgppl0 Vqx^a ddtc ku c| v xcnlc. jqi { u| ãm² i ãp m xqv gi { o kñe u h x^a tqute u grkuo gtk jqi { gppgm r² vgi q^a uc c n³ gi {g² uv n c| ãu| ggo r² uki vgt lgf kf / u| cmc u dcp c o ci {ct hgn f² upgm vñ² p rgi u| gdd cmq^v u c0 ëC| qm n³ r² ãn c n³ pegr ek m n³ r² ãn co gn{ gm c xku| cu| gt| gw o ci {ct u| cdcf/ u^a i o^a o qt^a dcp u| ãrgw gm gi { km rgi pci {u| gt dd xqv qñ cp o ci {ct h x^a tqv hgru| v² ug. co gn{ o gi ãk c xk^a i x^a tqv o² t² vñ² v0 M² r ¶gw² m

c fwpck tcnrctvqnev o gi eukp^an^om c uwi ctcu Cpft^auu{/wcv c n^ov
n^o4^o i { t l²v o gi 2^rfw²k c } »tk^ouk rctro gpv^o c j cvro cu
nk^an^k x^atcv nksgr^ofw²m c neu^atp{^anev o gi 2^rfw²gm 3^u Å jk^ocv
o k^o4 dgp n^o4 gn 3622.222 go dgt eu f^oÅ 3^uu| g c n^o4 ki c i c^ouk Dw^oct
rgv^og² u xk²m^op^o C| ki c|. jqi { c i {qtu hgn f²upgm o gi xqncm c|
^atp{qnf crk ku< c| gt m pci {o²tx n^o4 rqpqv^ouc n^ov²i vgrp^oÅn gi {km
qnc rgw c xk²m x²tuj gi 2^p{u²i²pgn^o O kpf gi {# u| Åm²i xqiv t^a. vj^av
jgn{gu xqn^o C fwrku| wnwu tgpul gtdgp gmgt^oÅj gvgv^o xqiv gi { o k^oku
o ci {ct h x^atqu n^ovgu²ug^o C Fg^am Hgtgpev n hgn n^ofw rctk^ou/gix g p²n/
mÅn eum r u r k^oqup o c tcf v xqpc^o C Fw^oc o gp²p c o k^oku D²eupgm o gi /
hgn o ci {ct gmgu^oÅn ngnw^o G| v gn^otv^oÅm u g| c| ^ancr qv c v²4²pgk
qtu^ai dcp. jc ^arf q| cvqnmn ku. hppvcty c^o xqn^o Fg vx^addhgn^o /
v²pk c t²ik jcv²tqm n^o4 3^uu ugo rgw xqpc n^ofw²pcv^o M²4 dgp c| qpdc
Vt^ocpq g^oqnc c| ct^ap{qnc< c : 8: 2.222 o ci {ctd>n pgo n^ogxugdd
o kv 3642.222 lw Dw^ocr gutg ²u n^o4 p{²n^otg# U co^o c n^ogi {g²u
nqt^adcp c u| gpv e²n o gi xcn^ouc^ouc ²tf gn²dgp o²i eum gn n^oj gvgw
dk qp{qu o²t²n^oki v t^opk jqi { c| 3^uu| gu hqpv^oqudd kv²| o²p{gn^ogm
Dw^ocr gutg v²gn²u²xgn c h x^atquv hgn w| cuu| wn c lgrp n^o4 Å²p{gm
n^o4 3^uu g| v hq| cv^opk d p rppp^o U n^ogxqpc wi {cpc| v c n^o4 xgm| v²uv.
co kv o^at c xk²i j^adqt Å crw hgn n^ofw< l³4l³p c fgegp^octk^o ^aek^o#
l³4l³pgm qn{cp kv²| n^og²ugm co gn^ogm v²4x²p{jcv^ou²ik ²u o gi {gk
x^atqucl^onev pgo cneu| v^am o gi hgn f²u^oÅndgp. jcpgo kpn^odd gn /
ugi^o k^oku Eucrq^owm rg. co gpp{kg g| v c| ²u| u| gt u²i ku n^o4 xgv^o c h /
x^atqudcp ²u n^o4 p{²n^op l³4²Ångi gup 3^uu| gu| crcf v p²r gu²i gi { t²u²v^o
U u| Åpv^ou^oÅm o gi c rgn^ogm o²n²p o²i o k^oki n^ofw²tv n^o4 rqpqv^ouk
f^o 3^uu O gi dqt^apn^oq xc h^o {gn^o o gi. jqi { r^o c ãngi v²4d n^orxkug
pgo c xk²m i qpf qm^ou^apcm x^ai {^apcm ²u n^o4 xgv²u²pgm c n^oh^og| lg.
jcpgo c h x^atquk i qpf qncv^om jk^ofgv lg qf c| c^o C xgl gv go dgtgm
v^oÅp{qo » v²4du²ig pgo dgppu^o Å²4w dw^ocr guk ²u o²i ku c rgi v²4d
o gi n^oj gv ugp gn| cnef v nqt^addk qvj qp^aw^on dw^ocr guk² rgw^o G| v c
r^ognk cneqv ngn^opg v^on^o rgi gnu uqt^odcp c| qtul^ai ²tf gn²dgp ku
^av j cpi qpk^o

D^o o w^ovqu j q| ^a2²v²uugn u| qti cm^o o cn c t²u| rvgndg o gp
cr>n^oqu^ai i cn o ci cu u| go rqp^oqnd>n fg o²i ku o gi k^oi cvj cwc^ocp
xcn^ou²i²t²mgn o wcv t^a Mg^odgn^odgti c o ci {ct x^atqun^or| f²u
cnef^an{ctc ²u c| qm gn²t^ou^apcm o »f lct^o | rvg wqn^o » ²x²dgp g| c
n^otf²u ^anv i qpf qncv^ou^apcm n^o4 rqp^ov^odcp^o G^o ²m^og²ugl^ogm h^o {g/
rgo dgx²v^ogn^o gi ²u| gp o^aun^opv hguv c|. co kv t³4k^o v²4²u²i i gn fg
cpp^an ki c| u²i vmp^odcde ëDw^ocr guv gm^oppgu²i pgn^o u| qmcm xgr² ²u
v²4gn²ugl^ogn n^oer euq^ov^odcp go rgi gpk^o Mg^odgn^odgti nqt^oc h^o Å²i^aw^on

ngl f x g tclqpi »lc xqrv Dwf cr guvpgm fg pgo xcm ul gtgm gug0 Co knqt
 c o knppkwo ²x²dgp Dgtrkpd n j c|c^vtv. c rqrkknck ²ngvdgp ëo^at o wcv/
 nql vcm c dgu dvgi uⁱ o^alhqmckl. Dwf cr guv c|qpdep xk^ai|q w.
 j kj gvgvrgp rpf Årgvdgp xqrv co k pci { ³/₄o gv ²u xki cu|vrf uv lgrgpvgw
 n²u dd ku ul^ao^atc0 C hqn|vqp hgn f x^atqudep ²ng o ci c ku gi {²pk
²ng^v u o kpf x²i ki j^an²ucp go rgi gk o gpp{k o kpf gpv ner qw rgnkrgi
 c dwf cr guk mwn/ n²4p{gl gw r0 C| ki c|uⁱ c|. j qi { ci {c r kj gp²uv
 pgo luo gt ²p f qn| q|qw c rgi m²4pd³4 dd vgtxgnp. co gn{gm n²4²r/
 r qpv^adcp Dwf cr guv^am0 Vtkcpq w²p c|qpdep n²p{vrgp c h x^atqu/
 pcm o^au hgn f²uk xqpcrv vgtxg|pk o kpv co kn{gpv c|gn w. o²i c
 j^adqtÀ x²i²p ku n²r| rgrvdgp o gi tcl|qn0 Pgo cnetlc c x^atquv o gi/
 euqpn|cpk fg pgo cnetlc o guvtu²i gup vx^addtc ku c| gn x^atquqndc
^vo ³/₄v²pk c p{qo qti » eucrf qm gl tgv ul cr qt|cpk c p{qo qtvc^anev.
 ëco k pgo x^atqur qrknc. j cpgo hqtcf crqo /vgp{²u|^vu⁰ Fg xeppcm
 c rncqr^ai /f w| cu|^vuq n²k²Ån vx^addk ki gp gi²u|u²i gu. u v gi {gpgup
 pci {ct^ap{À hgn f²uk rgi gv u²i gm0 Euqf^anev rgi gvp r r0 o xgpk
 kf gi gphqti cr k dcpqgn^ai lck v²tg0 M²4p³4up pci { rgi gv u²i gngv n²v
 c| w²ddkdep. c Dwf cr guv h²f x^atqu n²pegrek²dcp< qn{cp o knk²u
 pci {x^atqu c j qn gi {hgn n o gi rpp²pgm c xk^ai x^atqu ³/₄u| gu u|tcnq|^auk
 rgi gv u²i gk o^auhgn n c| gu|o²p{k h²f Åi {k rgi gv u²i gm Dwf cr guv
 n²k²Ån crki cncf o²i gi { u²rgu g xk^ai qp0 Eucm vgtx|gt gp f qn| pk
 ngm c o gi xcn²u²uq# U o gpp{k rgi gv u²i xcp o²i c o x²u|gk ²ngv.
 m²4p³4up c |gpgo x²u|gv vt²p# Pgo vgw rg Pci {/Dwf cr guv. xci {
 rgi cif dd c ëFwpc/o gi {gi o gi xcn²u²u^apcm vgtx²t n ugo. fg c r²p|/
 Åi {k pgj²|u²i gm o kcw n²p{vrgp xqrv gl gngv lqdd kf ntg gnppk0
 Cff ki ku c|qpdep. co | c r²p|j²p{ c n²kxgnv o clf o gi gpi gfk
 f qn| |wpm x²i g| Åpm gn n²u|v ul gtxg| o vni²v0 G| gugvgi o^at
 n²4 dgp tcekpck^a n²uv vj^avr²p| o gi vnet²v²u|grgpj v0

Gtglg lcx^av c|qpdep n²u²i vrgpÅn c xk^af²m hgrk^ai q|cv²u^atc
 n²pegrt^anc0 Iqi i cn^a mcr²v²m o gi t>rc. j qi { pgo xqrv o²i qn{cp
 o ci {ct o kpkul vgt. cnk p^arc v²ddgv v²4 f³/₄w xqpc c xk^af²nk x^atquqmn
 co gn{gnldp c vtkcpqk o ci {ctu^ai pcm md0 52 ' /c rncqw0 Vwflc.
 j qi { gl gp c v²tg pci {qp uqm c vgpf u gi {gn tg c rgi lqdd gugvdgp
 o²i eucm c| crcr qm rgtcn²u^ap^an vctwpm0 Gi {km v²4gf²ngu lgi {g²v dgp
 go n²k j qi { o^at nqt^addcp dgw|vc c m²4f pci { o xgn f²uk i>e/
 r qpvckv n²u dd r gfk. gi { ²xk|gf gu mwnu| o kpkul vgtu²i g crw
 l>hqt o^ap o kpf gp 32.222/p²n pci {qdd r²ngm|^ao o cn d²» o ci {ct
 x^atquv o gi vgnkpvw u | { ³/₄u| gi cuqpn|» cwqr ul cr r²p^a mcr²v²cw
 o gi c j²p{qnev0 C| xqrv c vgtxg. j qi { o kpf gp o ci {ct x^atqugi {²pk²i
 luo gtgv²u²v. ucl^aqu j kcv²u^apcm o gi^a mcr²v²u^av m²4p ekngndgp

x²i|k o clf gr0 Kgx^ai» n²|kcvqu lgi{|gvk tgpigvi dgeugu cp{ci qv
 vtvcm c|pcn# M^t. jqi{ |g|gm d xgdd kuo gtvg²u²tg plpeu vtgo.
 G|v c v²tx²v gi{²dn²pv n²4 dgl³4w j cr²rc o kcw o^at pgo xqrv kf glg
 o gi xcn»u²cpk0

Cmri qpf qrv vqx^addtc ku c fgegpvtcrk^aek^o o ctefv nku² o^au
 u|²pgl²uugn o kv c xk^ai j^adqtÀ kf gl²p xqm0 Oquv c mwm^a rku u|go r qpv
 vcr²p o²i lqddcp gn²v²tdg p{qo wv pqi c. o kv n²wm |g| c u|go /
 r qpv t²i gddk gn²qpf qn²ucl dcp ku pci{ u|gtgr gv l^au|qw0 V³4v²pgm k
 vpw^ap{ck ku ctt»n i{|v²m o gi. jqi{ c rgi o ci cuddtgp u gi{/
 Avcn go dgtkgi rgi²t²v²ngugd²rgvhto^anev mwm^a rku u|go r qpv»n c
 fgegpvtcrk^aek^o hglrgu|vgw nk c xk^ai v²4v²pggo nrcu|knu mwm^a/
 p²rgk c i fgegpvtcrk^aek^odcp lwcv^am nk|gl|²utg c n²p{gi Åpgm
 rgi kpn²dd o gi hrgn u|gtxg²uk hto^av0 J kcvu|km c i³4³4³ntg.
 qrcu|qmtc. p²o gvntg0 G|v c vpw^ai qv o ci{ct h²4ftg cmcm c|xc
 qf^aki u|gtvpg lwpk jqi{ ëo kn²u h x^atquwpm o gmwv c|qtu^ai gi{gu
 xk²nglpgm nkugdd h²4ftcl|k gi{u²i glpgm n²4 r qv dcn²pv rgi{gpgm o^au
²rgvnr gu x^atquclpm ku. jqi{ o kpf gp x^atqu kuo gtlg hgn c o ci c ucl^avqu
 jkcv²u²v²u gppgm^a r qn²uc n²4 dgp o wpm²rc nk c o ci c m^aÅ²prigi gu
 lgn²i²v²0 C nqt^addk x^atqur qrkkn²v c i{³4ngtugp o gi x^anq|qw xku|qp{qm
 n²4³4w hq|vcpk pgo u|cdcf²u pgo rgi gw0 C nki{|g|²u nqt c o gi cmwv
 Dw²cr gungv c| Ål^a2^rÅ²u nqt^apcm²rgvnr gu xk²nk o gvtq rkuqnev
 ngm nk|glrgu|vplg0 Kf v xgu|ÅgpÅpm pgo u|cdcf< c rgi gv u²i jcv/
 tclp dgn^a o gpv n i{|qtucddcp r»vqrpwpm ngm^avo gpgvki Gt²n² u
 c Hgxk²m x^atquclv ku. co gn|gn²n xcrc knqt c o ci{ct²vgro k²i
 gnu uqtdcp ner v c| w²pr»v²u0 Igi{|gvk n²4³4w xcp gi/ nko wcv²u.
 co gn| Vtkpqqpm c o ci{ct x^atquÅi{ vt²p x²i|gw tqo dqv» o wpm²l^av
 u|go n²rgv0 Gdd n nk²gtÅn jqi{²rrgp c| wdcpk²u o ci cudd hq²p
^am» x^atquclnev xgu|vgwÅm gn l»t²u|v qn{cpqnev. co gn|gnlgp pgo
 l^atv c v²4³4m o kv r²0 Rq|uq|. Mcuuc. Mqru|ux^at. Dtcu». Hko g0
 Fg grkgu|vgwÅm o²i U|cdcf n²v. Ctefv. Pci{x^atefv. U|cw^atv vud0
 C|ct^ap{vcrpu^ai |g|gn o²i pci{qdd rgw c h x^atqu²u c xk²nk x^atquqm
 n²4³40 |tx²p{tg ngm lwcvpk c o ci{ct x^atqur qrkkn²dcp c|v c| Å
 hrt²i^auv ëjqi{ c pgo|gv t²vgi|g| f²ug. vtÅrgv o gi qu²uc. v²tuc cm k
 u|gtng|vgv eucm cmqt rgu|ki c^ap gi²u²i gu. jc c v^ahglrgu|vgw.
 v^ao²tvg|gw h x^atqu o gmwv qn{cp gt vrgu x^atquk gi{²plu²i gm
 hln fpgm nk co gn|gnlgp rtqxlpekri o wv»n o gpv u ic|fcu^aik v²t/
 ufc cm k o xgn f²uk²u rqrkkn² v²rgv n^amgv0 Eucnu gppgm c i qpf qrv/
 pcm²tx²p{guÅ²ug gug²p²tjgv gn jqi{ O ci{ctqtu^ai pcm pgeucm
 rqrkkn² fg n²4 ic|fcu^aik²rgv ug rgi{gp gi{gvvp n²tv^atc hnx²xg0
 MÅ²p³4gp nko grk²rgv x²i g hrt² ku c|v c nqt c hÅ^ai^a»n ngl fvg

v̄4dū 3/4 n̄k̄h̄lgw v̄gr̄v. jqi { x^atquqf^au²u m̄w̄w̄t̄c n̄4 3/4w uqtuf 3/4p
 3/4u|gh̄i²u xcp0 G²tv rgw c v̄t̄cpqpk n̄qtul̄cndcp c x^atqur̄q̄rk̄n̄c
 o²i h̄p̄v̄qucdd. o l̄p̄v̄ xc̄īj̄c xq̄n̄< j̄k̄u|gp gl̄ c n̄qtul̄cm̄ m̄w̄w̄t̄x̄cn
 c̄n̄et̄c c| ḡn̄gu|ḡw̄gv̄ ku x̄k̄u|cu|gt̄g|p̄l0 C m̄w̄w̄t̄a r̄ku o q|c̄p̄cv c|q̄p̄d̄cp
 v̄4d̄l̄f̄rg o »f̄q̄p²tx²p{gūĀj̄g0 | r̄rḡp c|v̄ n̄gm̄ o gi^amer̄¶c̄pk j̄qi {
 o l̄p̄f̄gp gi {gū cf̄qw̄ gūgd̄gp o gn̄|km̄ c̄ n̄gi o gi h̄gr̄n̄ dd gn̄^at̄uk o »f0 Pgo
 gr̄i v̄j^av̄ c x^atquu|gt̄gv̄< u|Ām̄²i xcp x^atqukuo gt̄vt̄g ku0 U^ao q̄pk
 n̄gm̄ c l̄f̄f̄t̄cl|k j̄gn̄|ḡw̄gn̄ c v̄4v̄pḡk o Āw̄cn c r̄n̄quqm̄ j̄cl̄r̄o^ax̄cn c
 n̄4 r̄nḡf²uk x̄k̄u|q̄p{q̄m̄en c i c|f̄c̄u^ai k̄ cf̄q̄w̄^ai q̄m̄ēf0 C x^atq̄h̄lḡu|v̄u
 uq̄j̄c ugo r̄j̄gv̄ gn̄|k̄i ḡv̄n̄ c̄n̄ē0 Xgr̄ n̄er̄euq̄r̄v̄d̄cp o l̄p̄f̄k̄i v̄n̄k̄p̄v̄gd̄g
 n̄gm̄ x̄ḡpp̄k c p̄go|gv̄ ḡtn̄4euk gi²u|u²i²v̄ d̄gn̄ u|ḡt̄nḡ|ḡv̄v̄. u|q̄ēk̄ r̄ku
 ut̄w̄w̄t̄^al̄^av̄ c p²r̄gū²i. o x̄gm̄²i²u x̄ci {q̄p̄qū^ai gi {ḡp̄rḡv̄u.
 ct^ap{qūgn̄u|v̄ u^a p̄cm̄n̄4ḡv̄gm̄²p{v̄0

Gi {km̄ n̄gi h̄dd u|go r̄q̄p̄v̄cm̄ v̄t̄v̄c. jqi { c x̄k̄f²nk̄ x^atquqm̄ gm̄ /
 uq̄t̄d̄cp n̄4p{2m̄Ām̄ p²r̄h̄rḡunḡi²d̄n̄ i {ct̄er̄q̄f̄l̄cp̄n̄0 Gpp̄gm̄^a u|go /
 r̄q̄p̄v̄cm̄ ḡnj̄cp{ci q̄n̄^auc x̄g|ḡv̄w̄ q̄f̄c. jqi { c v̄Āj̄cl̄v̄w̄ ēḡp̄v̄t̄k̄^aēk̄/
 p̄cm̄ c̄p̄p{k̄ n̄q̄o q̄n̄^a o ci {ct̄²v̄m̄ gūj̄ḡv̄w̄^a r̄f̄q|c̄v̄w̄0 Pci {/Dw̄c̄r̄ḡv̄
 n̄k̄r̄cn̄w̄^auc r̄f0^anc̄p̄f̄» h̄gu|Ām̄²i u|q̄ēk̄ r̄ku²u r̄q̄rk̄n̄k̄ x̄ḡu|ḡf̄gn̄o gv̄
 q̄n̄u|q̄w̄0 C| 3: 89 w̄p̄ o gi l̄p̄f̄w̄v̄ d̄gn̄ x^apf̄q̄t̄i^au h̄n̄gi k̄f̄ḡt̄^ap{w̄v̄²u
 r̄f̄v̄t̄ḡj̄|v̄c c m̄Ām̄^atquqm̄ o ḡm̄w̄ c|v̄ c n̄ḡw̄ u n̄4 u²i 3/4ḡv̄. co gn̄|tḡ c
 h̄ x^atqu n̄4 gn̄²i ḡ gn̄4 3/4j̄ḡv̄ḡp̄Ān̄ t̄^ap{qo v̄c d²n̄gi²0 M̄rḡd̄gn̄d̄gt̄i
 u|gt̄l̄p̄v̄. co l̄p̄v̄ gi {km̄ l̄gi ||ḡv̄ ḡn̄^atw̄l̄c. gl̄ c p²r̄gū²i. n̄gi c̄f̄dd t²u|d̄gp̄.
 c n̄k̄ḡdd/p̄ci {q̄dd x̄k̄f²nk̄ x^atquqm̄ u|ḡm̄go²j̄g| n̄gm̄k̄gi n̄4 ḡr̄dd n̄gt̄Ā/
 j̄ḡv̄w̄ x̄q̄r̄p̄c. o l̄p̄v̄ c x̄k̄f̄i x^atqu²j̄q|0 X̄k̄f²nḡp̄ x̄cn̄u|¶p̄ n̄gi p̄ci {q̄dd
 i q̄p̄f̄q|^aud̄cp t²u|gūĀn̄ u i c|f̄c̄u^ai k̄r̄ci ku l̄q̄dd̄cp o gi ḡt̄ u²f̄k̄n̄0 C Dw̄c/
 r̄ḡv̄/n̄4p{2nk̄ gn̄ x^atquq̄nd̄cp x̄k̄u|q̄p̄v̄ c r̄n̄qu^ai u^ao c j̄k̄j̄ḡv̄ḡp̄Ān̄
 h̄gn̄u|3/4n̄4w̄ c p²m̄Ān̄ j̄qi { gl̄|gn̄ gi {Āw̄ r^at̄j̄w̄|co qūcp h̄gn̄ f̄3/4w̄ x̄q̄r̄p̄c
 c| cf̄»|n̄r̄gū²i0 M̄w̄w̄t̄a r̄ku u|go r̄q̄p̄v̄d̄»n̄ r̄gf̄k̄i v̄n̄p̄ o²i p̄ci {q̄dd
 gm̄o c̄t̄cf̄q̄w̄^ai^amer̄¶j̄c̄w̄ o gi0 O²i c n̄k̄f̄ḡf̄»x̄»m̄²u p²r̄k̄un̄q̄n̄m̄
 u^ao c ugo x̄q̄n̄ ḡr̄gi p̄f̄0 C j̄gn̄|ḡv̄ c| c̄n̄»dd̄ k̄un̄q̄n̄m̄ u|go r̄q̄p̄v̄^ad̄»n̄
 n̄f̄u²v̄k̄ḡēḡp̄ j̄cuq̄r̄f̄q̄w̄ c v̄cp{c̄x̄k̄f̄i d̄cp²u c p̄ci { r̄v̄k̄w̄p̄f̄k̄w̄o q̄m̄ o c/
 l̄q̄t̄l̄c̄k̄d̄cp o gi h̄k̄i {ḡj̄gv̄^amer̄q̄v̄nj̄q|0 ¶| { h̄gn̄ f̄3/4w̄ n̄k̄ c| q̄t̄u^ai d̄cp
 c| gi {km̄ n̄gi ūĀn̄{qūcdd u|q̄ēk̄ r̄ku n̄f̄f²u/n̄4 c̄p̄p̄cm̄ n̄4ḡw̄nḡl̄v̄d̄gp̄. j̄qi {
 Dw̄c̄r̄ḡūp̄gm̄²u n̄4p{2n̄f̄p̄gm̄ h̄gn̄ f̄2²v̄ n̄k̄^at̄»n̄ci c r̄f̄u^ao o c̄n̄
 o²t̄v̄m̄ o gi h̄gr̄f̄n̄ḡl̄x̄ḡ c̄t̄t̄»n̄ j̄qi { c i {3/4nḡt̄Ānḡv̄ x̄ḡu|ḡv̄w̄ ḡz̄k̄u|v̄p̄ēk̄ m̄
 3/4u|ḡūgt̄gi r̄f̄uḡ o²i p̄go q̄t̄i c̄p̄k̄n̄w̄u x^atq̄h̄lḡn̄ f̄2u0 Ḡt̄n̄ eucm̄ q̄w̄ r̄j̄gv̄
 d̄gu²r̄pk̄ c̄j̄q̄n̄ c v̄t̄uc̄f̄c̄m̄ k̄ t²v̄gi|f̄2u. c i c|f̄c̄u^ai k̄²nḡv̄ c| gi {gū
 qu|v̄n̄{q̄m̄ u^ao ct̄^ap{c gi²u|u²i ḡūp̄ t̄ḡp̄f̄ḡl̄ f̄k̄m̄ ḡr̄0 K̄u|q̄p{c̄v̄qū euc̄n̄^au
 x̄q̄n̄ c v̄Āj̄» ēḡp̄v̄t̄k̄^ao w̄u j̄¶k̄ḡk̄ u^ao^atc. j̄qi { c M̄t̄q̄n̄{k̄l̄f̄rḡ |ḡp̄f̄Ā²u
²u c n̄q̄o o w̄p̄k̄v̄c n̄|c̄f̄^au k̄f̄gl̄²p̄ c h̄ x^atqū c̄r̄r̄l̄^ad̄cp x²x̄ḡ n̄r̄v̄rḡpp̄gm̄

dk qp{wv c pgo | gv rgnk xg|gv²tg u c| k^ap{[¶]uv x²i ãn ku c| gj cp{c/
i qiv xk²m gi {km x^atqu[¶]pcm U|gi gfpgm ngnw^awgppk0 Eucm c| c
x^atqur qrk^{kne} j q|jcv vj^av ukngtv co gn{ Dw[¶]cr gungp n[¶]k ãn o²i o^au
ëgw[¶]rck o²t^vngv o gi ãv ì x^atquqnev vtgo v u pgo gpi gfk o gi . j qi {
c| qtu^ai rⁿqu^ai^apcm jcto cfc. xci{ hrg[¶] ô o kpf gp hqtcfcm k
o gi o q|fw^au gt hqt^aucn[¶]pv ô c h x^atqudcp²u n[¶]4p{²n[¶]p v[¶]o 3/4 ãn³p
3/4u|g0 Ngi {gp gi { xk^ai x^atquwpm fg rgi {gp gi {/n[¶]v gw[¶]rck pci {/
x^atquwpm ku= c v[¶]4dk n[¶]o o wpk[¶]ud[¶]n r gfk i hqto^anf lcpem nk c|qm c
x^atqugi {²pk²i gm co gn{gnpgm²rgvo n[¶]4²ug cmemo cu rgu| t²i gddgp
nrgvng| gw ct^ap{wcpu[¶]i qm nkn[¶]u| 3/4³4²u²tg0 ëO gtv. co kpv gi { l[¶]
|gpnetdcp c rgi m[¶]4p³4 dd u|[¶]pg|gv j cpi u|gtm gi { ãwo n[¶]4²ug
j q|c nk ki c^ap c | gpgk n[¶]o r q|[¶]ek[¶] dgu vctcm^av. c|qpn[¶]r r gp c
pgo |gv gm²rg^vdgp ku o kpf gp gi {gu n[¶]o o wpk[¶]upcm o gi xcp c o ci c
m[¶]4³p x^atqugi {²pk²i g²u ucl^aqu jkcv[¶]uc u²r r gp gppgm dg[¶]4²u²xgn
o n[¶]4²j gkm n[¶]4²tg c pgo |gw²rgv i c|fci cdd^a²u v[¶]rdgugd² v[¶]vg[¶]/
dgp ku

U kw n[¶]reucn[¶]f km dg c x^atqur qrk^{kni}dc c rgi n[¶]4 xgv[¶]gdd ãn c|
gi {gvgo k n[¶]tf²u0 Mrgdngdgti c o kn[¶]u h x^atqu o gn[¶] vj^av o²i gi {/n[¶]v
gw[¶]rck pci {x^atquv u|gtgvw xqpc c euqpn[¶] qtu^ai dcp n[¶]vtgi q|pk0
Gttg c e²rtc U|gi gfgv²u Fgdtgegpv x^arcu|qwc nk0 Pgo x²rgv[¶]p.
j cpgo pci {qp ku e²nwf cvqu gn qp[¶]q[¶]u gtgf o²p{gn[¶]pv o kpf ngw
gi {Awcn gi {gvgo k x^atqu ku xqm0 Kv o gi ngn^anpwpm gi { r kn[¶]pc[¶]tc.
o gtv ô gnu uqtdcp j^avt[¶]ci {qw n[¶]|kcvk cr[¶]r[¶]a p ô t^a ngn^owcv
pwpm j qi { ngx²u u|qel[¶]r qrk^{knu}wpm hqi rⁿqu|qw qn{cp dgi c[¶]cp
c| ã0 p0 x^atquⁿr| ggo gmn[¶] o kpv Mrgdngdgti 0 Uqtdcxg|k c|
3/4u|gu pci {qdd o ci {ct x^atquqnev o clf xk^ai xku|qp{r[¶]vdcp. 3/4u|g/
j cuqpn[¶] cr[¶]cp xk^ui^anc c hqn[¶]»m u|gtg²v c v[¶]4^vpgro k v²p{g|ngv
u m[¶]4³p³4gp c| go dgt 3/4p[¶]wf cvqu x^atquh[¶]ngv v[¶]gx²ngp{u²i²v0 M[¶]kg/
lgu|k xk^ui^anv^v c| gi {gvgo gm u|gtg²tg ku0 3/4u|g^an[¶]dc o ci c u^a/
o^atc c| kf[¶]gx^ai» h[¶]pvqucdd cf cvqm lgn[¶]v²ngp{ t²u²v0 O kw[¶]p ¶i {
o kpf gp crt²u|rgwn vku[¶]v[¶]dc l³4v u hgn²v[¶]p ãn v[¶]cmuf qw c u^ao/
dcl³4 cp{ci qp. nk[¶]q[¶]i q|v c r tqi tco o h dd r qp[¶]vck0

Pci {qp l[¶]n w[¶]vc. j qi { ëgw[¶]rck pci {x^atqu[¶] ko r tqxk^ampk o²i
cmqt ugo n[¶]gv[¶]g. j c cni[¶] o kn[¶]u rⁿqu^ai qv vtgn[¶]p m 3/4u|g gi { j gn{t[¶]g0
X^atqu eucm qw xcp. c j qn m[¶]4[¶]v kctv ngtgung[¶]g[¶]o gv. gi²u²i g[¶]gp
vi q|qw v[¶]tucfcm cv v[¶]n[¶]mpn0 ëJ cu|v[¶]cp vgtu|gn[¶]gw xqpc c u|gi gfk
²u fgdtgegpk n[¶]q[¶]n[¶]rcv[¶]k[¶]o wu cddcp. j qi { o kpf n[¶]v n[¶]o o wpk[¶]u c
rⁿqu^ai n[¶]rgm[¶]o^atc p²|xg u^a|g|tgu x^atqu. j c c p²r gu²i g pci {qdd
n[¶]qi n[¶]o gt^awo clp[¶]cm c j gn{k u|[¶]pg|gv[¶] eucm c r[¶]rtk[¶] ²u c f²rk[¶]d
cflc o gi 0 G|gm n[¶]gv[¶]gm ki gp²tf gngu m[¶]tk[¶]|wo qm fg pgo x^atqu/

nřr| grřtpgn0 X^atqunřr| grgo rgppg ô gl t²i gddk i qpf qrv^v pcm
 xku| cv²t²ug ô rř0 c vctvqo^ap{0 Gtt n c| qpdcp c j^adqtÀ crw gmřr/
 | grv hřto^al^adcp nřu dd c vřcpqpk nřtu| cndcp rgo qpfqv0 Pgo hgr/
 vřvřpĀn x^atqunřr| grgo ô uclpqu ô c x^ato gi {g0 Fg dĳ qp{qu
 vřp{gl m ³ku| gi cv^auc gug^vp c rgi ukngtgugdd x^atqunřr| grgo gm
 gi {kng rĳ gv c| gi {gvo # C| gi {gvo k u| gtxg| gvdgp. cpcm gi²u²i gu
 o nř²u²dgp mwnAvřtArvgv hřto^an» gt tglv| km u c| qn{cp nřo o wpk/
 v^au. co gn{pgm kunřctgpřu| gt²v gi {gvo nřtqp^a|| c. ul řpv o ci^aw»n
 gn ddtg²u gn ddtg uqřt»řkm c x^atquku lgngi nkrcmw^ař pcm Āl^ap.
 o²i r gřki pgo eucm ul gmgo k jcpgo i c| fcu^aik ul go rqpvd»n ku0 Cj j q|. j
 qi{ U gi gřd n²u Fgdtegpđ n ki c| k pci{ x^atqu rĳ guugp. p²mĀnř/
 jgvgřppgm vctvqc c l»n nřr^ařgw²u gřgfo²p{gugp o nř⁴ gi {g/
 vgo g0 U v vřx^addo gpv c nřv cřřřřk gi {gvo v n x^ařc c| gi²u² vřl
 Ātc²dtg²u²v cdd»n c| gři qpf qř ud»n nkřpf wkc. jqi{ ěc| qn{cp
 jcvcm cu mwnw^ařku h řp^v| o²p{. o řpv co křgp c| gi {gvo. pgo eucm
 ul²nĳ gn²tg jcv jcpgo jcv^auc o guu| g nřw^at| km c nř⁴p²ntg ku0
 C| gi {gvo gm vř^av pgo eucm wřqo^ap{rqrk^anek jcpgo x^atqur qřk/
 v^anek ul go rqpvd»n ku c rgi pci {qdd o²t^vndgp²řgnm²u co knřt
 c xř²nk gi {gvo gntg cpp{kv^ař q| qw. gi {^ancri^ap pgo tgi kq^ařku ul go/
 rqpvmxg| gw²m jcpgo^ancri^apqu pci { pgo | gk²řgnngvul qii^an0

C rřtqi tco o gi {km nřp{gi gu rqp^ař pcm vgnřvj gřl^am c| v c| gři qp/
 řqř^ařv jqi{ c| gi {gvo gm ugi ĳ^ař²i²xgn o clf ukngĀn c| kngv xř²m
 hčkv ku lqddcp j q| |^anř⁴pk ul nřdd j c|^alwnj q|²u gppgm rřqdř^ao^akj q|0
 C| v ul gtgwg xqpc grřtpk jqi{ c xř²nk²tvgn ku²i hčk^ancri^adcp c|
 gi {gu xř²ngnt n ul^ato c|» hčvcn²tvgn ku²i křm pg cnetlcpcm Dwf c/
 rguvřp ěci cf pl⁰ O gi hři {gng. jqi{ c Dwf cr guvřp kunřřnev x²i/
 | gvgm c| gugvgm vřp{qo» t²u²dgp pgo cnetpcm xř²ntg xku| c/
 o gppk xci{ j c gttg nřp{ul gtĀpgm ul gtgpeu^vvřpgmpgm²t| km o ci w
 nev0 Qtu^ai qu²řgm vř^av jqi{ c xř²nk²tvgn ku²i pğxgř²řt²g o gi/
 hngn ul^ao dcp xř²nk h kunřřm²u gi {gvo gm^amlcpem tgpř gmg|²utg.
 Fg xku| qpv o řpřgpv o gi ngm vřppĀpm jqi{ c xř²nk²řgv rĳ gv rĳi
 ngmgo x^ařtqu dcp c exkř^ař^av²řgv o řpřo^ařku gn hgn^vvřgk ku j ř p{q| pcn0
 f ncri^adcp o řpřgp vřtgp o²i tgpigvi c vřppkcx»0 Hři {grv cttc ku.
 jqi{ c x^atqul hřgu| vřu pg jcp{ci řřc gn c| gu| vř^anek ul go rqpvmnev0
 G vgnkpvgdgp mĀnř⁴řp U gi gřgp x²i| gw o wřnřlc xqřv nřtu| cnřv
 cmq»0

N^awm jqi{ c j^adqtÀ x²i g hřř nkř qri q| qw x^atqur qřk^anek rřtq/
 i tco o l^adcp vctvqo^ap{řřřm ul gřgřgnn0 Go řřřgwgo. jqi{ g i qp/
 řqrv^v c vřcpqpk qtu^ai dcp pgo řřwc nřtgu| vř^akj gv pgn0 Fg uqnev

v̄4vg c hgl²v xcno k jcuqpn» dtgpgf g|ngf²ugp< c| Æ0 p0 nwnv̄ctvq/
 o^ap{qnuq0 G| vgv|vg xqpc dg c vcpÄi{k cfo kplu v^aekxcn nreuc/
 r̄wqu tghqto lck0 D^at gri qpf qf uc pgo xcno uwj cvqw o gi. ²tf go gu
 ngu g r qp vq p²j^ap{ u|»xcnkuo gtvgp Äpn0

O²i c j^adqtÄ crw rglgi{| gw gm²mgf²ugldgp ulgtgrgn c vÄn/
 |qwcp n̄4 r qp vq f̄q w n̄4 ki c| i cv̄u ntkkni lc0 O kplu v̄tkwo clpncm
 gi {km r̄gi pci {qdd dclc ô f̄lc ô. jqi { jkxcvcpqnk nctc c n̄4 r qp vk
 ul qri^a r̄v dcp p³k gmu km hgn u f̄i { c| ²rgwgn xcno n̄4 xgvgp ²tkp vngl²u
²u c xlf²m kuo gtvgv p²mÄn p hgn u f̄i { ^amco k kp^v|gvgn ulgtxgl²u²p²n
^ancn̄pqu o gi hqp vq f̄ uqm ²u o^auqm lgrgp^vug. r̄gi h̄4 l gdd hwwnci qu
 jgn{u|f̄pk ulgo r̄g cr̄r l^ap n̄4 u|f̄k gn c o²i v̄l²m| cv̄cpdd o kplu v̄t
 ul^ao^atc c f³p^vu0 f̄i { c|w̄p pgo gi { ^amco k kp^v|o²p{ r̄v uÄv
 pgo o gi hrgn jgn{gp. M̄u dd. o^at ²rgv x²ig hgr̄. o²i v̄Äd vrcul/
 v̄rcv w̄p. r̄p{gi kgi o gi kuo ²vng d f̄i^a r̄v< èC o ci {ct nqto^ap{|cv
 j^kp{clpncm gi {km r̄gi h dd qn̄v cddcp r̄vqo. jqi { Dwf cr gvgp »tk²uk
 o kplu v̄tkwo qm xcpncm c n̄4 cm̄o c|qvcem ul^a|ckcn gl gndg c|
 »tk²uk dÄt»/tg|gtxq^a tqndc c| cm³m ul^a|gl tgc c| qtu^ai o kpf gp t²u²/
 d n ³u|ghqnf̄pcm ²u kv hgr̄ qri q|^auv v̄Ädp{|kg qn{cp dÄt qm̄cv̄m ngl²/
 dgp p{gtpgm cnkm ul qri^a r̄wnev o kpv hqi cm c|»/i {cnqtpqmqm ngl f/
^vm o gi. cnkm c| qtu^ai qv eucm lgrgp^vugm cm³kd»n kuo gtm ²u tgpfg/
 r̄vgm cm³kcn cnetl^am nqto^ap{|q|pk= fg uqmu|qt h̄vcn hqi cm c|»m
 x^anq|vcl^am o gi vrcul v̄cn cr̄r^apqm ²u o^au n̄4 r hqmÄ jcv̄u^ai qm
 tgpfgmgl²ugk0 Ctte pgo i qpf qj cvqw. jqi { glv c tgpfulgtv c| gi²ul
 xqpcmp h̄ri ³pi {³Äf̄ug0 Fg uqnev v̄4vg c|qp c hgl²v. jqi {cp lcx f̄j cvpc
 c jgn{|gvcp r̄gi cr̄ dd c ucl^av v̄t Äng^vp. c vcpÄi{k cfo kplu v^aekdcp0
 U o kxgn p^anc uqmu|qt v̄xqrgu npgm r̄v u|» Äi {gm ku c r̄gi ulqtquedcp
³u|ghÄi vgm gl c n̄4 t²u ku nreuc r̄vdc ngtÄv c| gi {gvgo gmgn ²u c
 x^atqr qnkni xcno ku0 C n̄4 t²u cpp{ktc vku|v̄}»f̄qw. jqi { i qpf qrvck
 o^at n̄4 kcv i {cp^apv nkp{qo cvqw pci {qddt²ulv Hlp^ae| { Gtp vn
 o kpvulgtgp o gi hqi cm c|qw v̄4x²p{v̄txgl gvdgp p{gtvgm hqto^av0
 Eucm uclp^aipk r̄gi gv. jqi { c nkv p gp gri qpf qm̄ t²ul r̄vgugp nkf̄ qri q|qw
 v̄txgl gv^vti {cr̄t²u o gi xcno u|f̄v̄t²u pgo ngtÄn0

C| gm̄r|gnv v̄4x²p{|cxcurv c| qtu^ai qv p²i { n̄4 o xgn f²uk
 v̄tvo^ap{tc qu|qv̄c hgn< Dwf cr guv. U gi gf. Fgdtgegp ²u R²eu ul²m̄
 jgn{gmgn0 C ul²njgn{gm nkḡr̄4f̄ug o^at ³po ci^adcp o wv̄lc c| gi {g/
 vgo gmgn xcno ulqtqu ³u|ghÄi²u0 C| kpf qnu^af̄u glv o²i t²ul r̄vgugd/
 dgp n̄go gr̄0 èC pgo|gk n̄4 o xgn f²u gi²ul tgpfulgt²pgm euÄur qp v̄
 lck c| gi {gvgo gm o gn{gnpgm c vcpÄi{k n̄4 ki c| i cv̄udc xcno dgxqp^a/
 u^av c| gi {gvgo k cwqp»o kc o gi »x^auc o gm̄gw ô o xgn f²uk r̄qk/
 v̄n̄o gi {km uctmr qp v̄^apcm v̄nkp̄vgo 0 J cd^at c| gi {gvgo h hgr̄fcv

c wfqo^ap{ vcp^uuc²u o xgr^uug. g wfqo^ap{qu o wpr^uu^aipcm n³4/
xgvgw jcv^uv^u ngm jqi{ o gi²tgl|g c| kunqr^c ku. ogn{ pgo vcp^u
wi{cp ulcnwfqo^ap{v. fg o wpr^uuclp^ucm c wfqo^ap{wⁿ o gi kj rvgw
gi{²pk²i²d n o g^ufk c jcrf^au^v d^kvu^u» o ci cucddtgp^f 3^u|v³/
ugng⁰ P go grⁱ wi{cpku. jqi{ c| kunqr^c c o xgn f²uk lcxncv. ogn{g/
ngv ugkpnv n nerwpm i qpfqu u^ah^utnq^au^uen^a w^flc c h^uvcn pgo|g/
f²mpgm ngi{grvgu o gi t²u x²i gw= ngm jqi{ c|qm cnkm w^upwp^m
n³4xgwg|pgm g lcxncv i{ctcr^uu^am ku. c pgo|gv ulgrgo k²rgv^v
vqx^add²u vqx^add h^ulguu|²m co kpgm ulgtk^uvg o {km h hgn²vgr. jqi{
c| kunqr^c ²u c| gi{gvg o n³4e^u4p^jcv^uuc d^kvu^uxc rgi{gp0 C| gi{gvg/
pgm ²u c| kunqr^c p^ucm g r^ung^u ner euqr^vv qn²t^vngupgm v^uqo. jqi{
xgrg ulgo dgp crki r^ugv pci{qdd u^anc p^ucm c x^atjcw^u gngpx^vupgm
jqi{ gi{gvg g^upm n³4^an j^atqo c euqr^uqtu^ai rgtk²tk²kp xcp gn^u
jgn{glxg²u gpp²rhqi xc p^ug^uglgp jqi|^ah^utjgv 0 O²i o k^upf k lqdd r^uu|
c jgn{gv. o k^upvcm^uq^ux^u o k^u p o k^upf gp Dw^ucr gvgp n³4 r qpvquw⁰

C dgtgpf gl²u r^up{gi g eddcp^amv xq^upc. jqi{ c xcn^u ²u n³4 qmc/
v^uu^ai {k o k^ukl v^utkwo jcv^uun³4²pgm lgrgp²ngp{ t²u²v c| ^al jcw^u/
i qntc tw^a|v xq^upc^av. gi{hgn n c|²tv. jqi{ c| cfo k^ukl v^aek^u o gi/
i{qtuw^uq. uko w^un^up{cdd. c| gi{²pk xq^ua^uqm k^apv hqi²n^up{cdd.
n³4²ngugdd rgi{gp. fg o^auhgn n c|²tv ku. jqi{ c o k^ukl v^utkwo. o k^uv
r^ugh dd vcp^ai {k jcw^ui. c o c i c o wpr^uu^aipcm u^an{r qpv^av k^un^udd
c pci{xqpcn^a o xgn f²uk r q^uik^unc h^urcf cvk^upcm o gi q^ur^au^atc jgn{gl/
jguug u gnr^upv ^ec ul^u» rgi o ci cucdd²u rgi pgo gugdd²tv^uo²dgp c pgo/
|gv gi²u ul grgo k²rg²pgm r^ugh dd k^ap{^ulc r^ugu^upi 0

C v^utxgl gv c n³4^urf k r²rf^am^a vgnk^vug w^up o gi^ancr^ulc. jqi{
c n³4 r qpvqu^u u g v^utgp p^an^upm c r^ugi pci{qdd u jqi{ c n^upv^upgpug^u c
r^ugh dd n³4 qmc^vu^ai {k n^uto^ap{|cv²u c| cn^u k^uv^u| ulgtxgm n³4²
o k^upf gp^aw dg xcp k^uncxc gi{ pci{qdd v^ut^ugrvgv h^un³4gn²u ct^ap{ri
u²rgu jcv^uun³4tgn h^urtw^a|qw vcp^ai {k jcw^ui. co gn{ c h^unu d^uh^uq^a
cfo k^ukl v^aek^u n³4²dg x^ai» vggp^f m r^ugi pci{qdd t²u²v ulngt^ugug^u x^anc^u/
jcvlc0 G o w^unc o gi qu^vu v^ukl c| w^up r^ugv x² c h^un³4i {grv jcv^uuq/
ucdd^a v^ugr^u0 M^ugdgn^ud^ugti jcuqr^unc v³4gn^ufgw0 C n³4 o xgn f²uk vt/
qdo^ap{ jcv^uun³4g n^uvtl^ugv xq^upc c n^ukf gf>x>m i{gto gno gpg^f2^um
j^a|cm grgo k p²r kunqr^u m^anc^urf p^u k^ap{^a ²u ic|fc^uik k^ap{^a vqx^add/
n³4r| kunqr^u m³4^am ic|fc^uik p²r kunqr^u m k^uctqu/ ²u ngtgung^f
vcpw^u kunqr^u m n^ukf gf>x>p n³4r| k^uv^u|gv^u vcp^u/ ²u vcp^u/p/
n³4r| k^uv^u|gv^u rqn^atk h^ul^a ²u r^ug^ap{kunqr^u m h^ul^a ²u r^ug^ap{ n³4²r kunqr^u m
c| kunqr^u m^uen ner euqr^uvdc^u ulgtxgl gw p^ugxgn k^uv^u|gv^u ²u c| kunqr^u p
n³4^urk p²ro xgr^u u lgo²n³4k²u fqn^uk ^ai{gltg0 C| ²rf p^amv xq^upc c
vtqo^ap{k gp³4m cnk c^u o gi h^ugn r^uu^ao ^al hqi c^uo^auk h^un³4i {gn k

o ul cnk ul^a o xgx u² i k ngl gr² uk² u cnku vk ul go² n| gv vctv| qw xqpc0
 Xcndcp Å0 p0 ênku o kplu v²tkwo qmî crcn¹ uc xqiv vj^a v vgtxdg x² xg0
 C| gp³ân o gngw o kpf gp³ân n¹4 o xgn f²uk vctvo^a p{k vcp^a eu² u
 n¹4 o xgn f²uk vctvo^a p{k lgr¹ân dk qw^a i ul gtxgl vgwv xqpc. c|
 w>ddk h ngi c ul go² n| k lgr¹ân ugm c vcp¹ {k cm¹o c| qwcm nk^a nji c/
 v¹ uc e² n^a d>n0 Ctte pgo ngm m¹ân¹ p t^a o wcpqo. o kn gp jcv^a uqu êx^a tqv/
 n¹ r| î grgo ngwxqpc gi {/gi { kn gp pci { vctvo^a p{kj kxcvni¹ vgu¹ ug0

Pgo nku gtn¹ êuk d^a vtu^a i nngw o^a t c vgtx gm¹ ul¹ v¹ u² jg² u
 c fgegpcrk^a ek» gr^a pgm j cpi q| cv^a u^a j q| ugo 0 Uqnep Åi { gi {ul gt /
 ul¹ gw² m ng c n¹ t² uv. j qi { Mrgdngdgti nk cnetp^a Dwf cr guv hqu /
 vcpk r gfi eucm ctt>n xqiv ul>. j qi { Dwf cr guv n¹ k¹ ân ku wf lcpm
 o gpv n v¹ d¹ 2 t² vngv vto gpk0 Mrgdngdgti gngpu² i g xqiv c êi { kmqu
 egpcrk^a ek>pcnî. fg pgo xqiv gngpu² i g Dwf cr guvgn0 C| ki c|. j qi {

t¹ân c xk² nk hqn>kcvnpcm c r² euk O kpgtxc/pcm c ul gi gfk U² r/
 j cqu / pcm c Fgdt gegpk U go ng/ pgn0 H¹ lv pgnk j qi { p^a mpm gi {gn tg
 plpeugpm qn{cp o² tgv² u ul¹ pxqpcn^a êxk² nîk Ål¹ i qm o kv c Eqttktg
 fgnc Ugtc. xci { c Hcpcnhtvgt \ gkwpi 0 Fg gl gngv c| 2 t² ugnv pgo
 c Dwf cr guv/ gngpu² i. j c pgo c oci {ct m¹ w¹ t¹ c^a j^a v¹ qu ko^a f¹ cv
 henev| qvc0 Pgo cnetv hngppk c oci {ct m¹ w¹ t¹ c^a 2 u r qikne uqtu^a v
 gi {gvpp nrtc# I qpf qunqf pk n¹ k^a pv ctt>n j qi { c oci {ct o xgn f² u/
 pgm xk² npp ku v¹ o cf lcpm pci { vj¹ gtd¹ u^a i>er qpvlck co gn gm
 ngjv x² vqu km j qi { c xk² m ku jcvj cuuq c h x^a tqtc. pgeucm c h /
 x^a tqv dghqn^a uqic c xk² ngv0 Jc gl gi {ul gt dgn¹ k¹ gwngl gw cmqt
 o ci^a w>n dgvo gv f³ v xqpc c o² n| ul cnef² m co gn c h x^a tqv² u c
 xk² ngv gr^a ru| vc u co gn pgm dg¹ v¹ u² p cpp{kv H¹ tcf q| qv0 ÊO gtv
 c| v pg hngl w¹ m gn ô hqi rnc hngf j gv vgp ul xcncd ô j qi { Dwf c/
 rguv n¹ i c| fcu^a i k² u m¹ w¹ t¹ rku r¹ o r^a k pgo gr¹ i gt ugm c j j q|. j qi {
 Oci {ctqtu^a i gi² ul vgt¹ v¹ ic fcu^a i k² u o xgn f² uk uwi ctemen
 o gi xk¹ i¹ u^a m² u xk² nk i>er qpvm xk² nk gt u H¹ p{hqt^a uqm nkhl/
 ngv² ug p² m¹ ân m¹ ân¹ p³ vgp c rgtk¹ tk¹ nup pci { ngv c n¹ i c| fcu^a i k² u
 m¹ w¹ t¹ rku² ul cne0

Vgo² ul gvqu. j qi { o kpf gp qn{cp lgrpu² i gv 3/4 o gn xgu wf q/
 o^a uwn co k v¹ 4 gnx² uglp gm ukngt² v lgrpvk xci { ngi cî dd ki² tk0 v¹ {
 3/4 o gn^a mcr¹ v¹ qu o gi. j qi { e² mkv¹ 2 ugk t² ul dgp c| qpquem c Xk² nk
 Oci {ct X^a tuqm M¹ w¹ t¹ rku U¹ 3/4 gw² i² pgm v¹ 4 gnx² uglxgr0 Gn ul 3/4 c
 fwp^a plppgpk x^a tuqm hqi vcm 3/4 ul g vgtxul gt m¹ w¹ t¹ rku r tqi tco o /
 lwn o gi dgu² r² ug² u c nkxkgrtg o gi² tgw tghqto qm 3/4 ul j cpi | cxqu o gi /
 xc>u¹ uc e² n^a d>n0 Gj jgl eucv nq| vcm c fwp^a v¹ k¹ x^a tuqm ku< v¹ {
 l³ v r² tg c| qtul^a i qu ul 3/4 gw² i. co gn pgm o wpn¹ l^a v Mrgdngdgti c
 ngi pci { qdd hi {grgo o gn n¹ i² tvg² u v¹ o qi cwc0 Nngmugp o ci {ct^a | v

ekmgldgp c o ci {ct ëJ cp|ci hqpvqu^ai^av²u ukngt^gk0 Cpp^an pci {qdd
 ul qo qt^arⁱ hqilc gn jc c x^atquqmⁿ ¾^ugh^Äi vt^xgk pgo ukngt^Ä/
 pgn0 Igi {g^gkd n cf^vm nk j^crⁿnc w^ap gi {km ¾^Ägf²n^v c o ci {ct
 x^atquqm Ugfc^p/^at>ñ0 C dqtqpi » i qpf qncv^qncv c| 3; 52./k p²r^u^ao/
 ñⁱñ^upcm c x^atquqntc xqpcv^uqj » ucv^ul^uknck cf^cvk x^anq^w^am nk
 dgn r^g0 ëUqm^uqt jclm^u c| qtu^ai v²tn^rrg²u n^¾r^qpk ucv^ul^uknck
 j^kxcv^upm v^adrⁱcf^cvk h^¾r²u p²|go c pgo|gk vt^Ärgv o gi quⁱñ^uv^a c
 euqⁿnc j^c|^adcp0 :.8: 4062 r^gmgv vx ¾^uul^up²r^gu²i^Äpnd n pgo n^gxg/
 ugdd. o kp^v 3.6420775 h gukm Pci {d^wcr^guv vt^Ärgv²tg. nkpv r^gfk
 j^kdk^qo^ap{qmⁿ 2u o^au pci {d^kv^uqumⁿ » u|qtq^acvw h^rkc^m nk
 pgo g^ri^u o »f^qp h^gln^f. xci { 2^rrg^u j^cp{cv^w x^atquqñ0 C| cf^cv^um
 xc>dc^p r^gu^Äwⁿ0 Xk^ai| »ncm i qpf^qv x^atquqm xci { c^rki u|cr^qtqf/
 vcm xci { 2^rrg^u x^uu|c ku guvⁿ0 M^Är^¾g^up o gi f^¾ddgpv c o gi {gk
 x^atquqm 2u c 32.222 r^uq^up^an p²r^gugdd n^¾r^ui^gm ucv^ul^ukn^lc< ki gp
 uqm x^atqu l^grg^v²ng^p{ x^gu|v^ui^gv o wcv# ëUcl^av r^gm^kuo gt^gvo p^w/
 i^qf^v h|k j^q||^a0 ô Gpi go c| 3; 520 p²r^u^ao ñⁱñ^u cf^cvk pgo 2^tvgm
 o gi r^gr^g²u^lgt gp. 2^p c j^Äu^ucu 2^xgm h^qn{co^ap c| qtu^ai dcp v^gw
 i{cn^utk Äl^uo cm^uo^ax^cn c dcl nk^rcn^w^uv n^¾r^ux^gv^gp^Än c j^gn/
 u|p^gp ñ^wco 2u c p^rkr^qm j^cu^ad^lck^p o gi l^grg^v ekmg^lo dgp 2u
 n^¾r^u{x^glo dgp kuo 2^vng^p x²u|l^gv cf^vco 0 Pgo j^cmi cv^um t^ao. u v
 f^geg^ptc^uk^ael^u k^ap{|cv^qo 2^tv i{cn^utk v^ocf^audcp x^qv t²u|go 0
 Gi {km ek^m²dgp Äd>n o gi n^upi cv^lc c x²u|j^ctc^uqv u kuo 2^v u^Äi^gk c
 vt^xu|gt x^k²n^hl^gru^uv^u m^Är^¾pdgp ëc o gi k^pf^wv j^cp{cv^uu |w^jc/
 p^au^a h^lw^jcv⁰ L^hto^ap n^¾r^ux^gv^gp^Än c r^go q^p^au gn w o 2ⁱ g^rp{gt^g
 c o k^pu|vt^gp^¾m j^q||^at^w^uv c j^jq| c vt^xj^gl. j^qi { c| gi {u²i^gu
 r^atv^lcp m^Är^¾p x^atqu^kq^w^ai c^rn^wl^qp0

Eucm eppcm ¾^Är^ggvw. j^qi { c| ^anc^rⁱp^qu j^cp{cv^uud>n c| gi {g/
 vgo k x^atquqm pgo eucm nk^oct^fvcm j^cpgo gi {g^pg^up gn t^gv^¾gⁿ0
 ëC v²p{gm dt^w^rku n^rc^uck^an> gt^gl^gi v ki c|qnc0 ëU c^pp{k Ä^rf^¾g^v²u
 w^ap⁰ h^qn{cv^lc ô co k 2^rrg^u g^lgp c e^up^g g^ul^gp^xg^fpk n^gmgw. o quv
 p{wⁱq^v r^gm^kuo gt^gwn l^grg^vgo dg pgo|gvo p^gm j^qi { x^k²nk x^atq/
 ucl^pm u²r^un^¾r^u t^qo ñ^uuc k^gl²p r^gi^cñ^udd j^at^qo x^atquv gn^tg r^gj^ggvw
 uq^fq^tpk c h^gln^f²u Ä^up. co gⁿ{gm p²rg m^Är^¾pdgp u|k^p^vp D^wcr^guv
 n^¾r^u{²n^v u|cr^qt^uq^wc x^qpc^u G| 2^rrg^u c j^at^qo x^k²nk gi {gvo k
 x^atqu0

C n^¾r^uÄ^u 2^p{gm o ci {ct^a||^am j^qi { g j^at^qo x^atqu n^¾r^uÄ^u 2^rrg^u
 U gi gf uqt^uc h^qi^ucm^u|v^uc c r^gi^ud^gcv>ddcp0 Ekmg^lo n m^Är^¾p u|gi^gfk
 u|go gⁿ²p{/uqt^q|cv^u r^gj^gvg ¾^uul^ug^an^hcp^l0 O^at 3; 49/dgp. co k^uq^t
 o 2ⁱ c| gi {gvo k 2^rg^ul^gl²ug^m gⁿl²p x^qv o gi^ao q^fv Pci {u|gi^gfv0
 F^qtq|uo c r^uuc^pnk^v ¾^uul^ug²r^Än U gi g^fgⁿ< g^l|gn o gi u|p^km c| cⁿu>

²u hgm vcp{^anev u²vhu|[¶]v ²n0 V^ar² o^at u|gi gfk nř|gp xcp0 U »
xcp c fgu|nk jcv^t o gi u|gt|²t^t n0 U tgi hgp{^{Ark}m —|u|gi gf crf0
C x^atquk o ci nř⁴Ān co gn| gi{²dnřpv Vku|c Nclqu vgtxgk crcl^ap
Oci {ctqtu|^ai rgi u|gddgp tgpfgl gw x^atq^apem ²rĀw nk 382.222 go dgt
euqrqtqvaw jcvcm cu ic|fcu^aik gt v ku nřrxlugxg0 C vř⁴dkv o clf
gx²i|k c| gi{gvo. co gn|pgm pci{qdd ct^ap{qndcp xcn» nř²r[¶]ug
jco ctqucp o gi kpfw0 M[¶]u dd Ād»n ²u Ād»n xku|cv^t c pci{u|gi gfk
i qpfqr^vq|. ěco gn²tv ²tfgo gu ³uu|ghqj pk co gn|d n nkuw^at|» u|wi/
igu|[¶]x ²u rtqr^ccv[¶]x gt o gitci cflc c ngmgngv0 O^at nřdqp^vnu|xc.
u|kpv nřu|gp nř⁴lc ěgi{ gwt»rck ²tvrgo dgp xgw pci{x^atqu p²rgug/
f²uk vř⁴tucfcm k ²u ic|fcu^aik crclck⁰ Eucm c x^atqulcu lgmgi gv ngm
o²i vx^add go gpk0 Ekmgkp nř⁴Ān co gn|gm nřpnt²v crt»rř⁴nu|lcxcu/
rvqnev ku vctcm c|pem lgi{|gvkdgp o²i vx^addu|³kk c v^o^av0 Hgn/
fqi q|c U|gi gf ³uu|gu hqvquedd uvcu|vne k cfcvck 3:8;/v n ng|fxg0
MĀ[¶]p tqxcvnev p{kv hrgi{|²ugkdgp c| gi{gu u|gi gfk rtqdi^oc/
nř⁴³ngm< o x²u|k hrcfcvqm ô hgn³⁴vpf rgeuqn^am ²u xk|gp{ u
vgtĀngvm c nř⁴v³⁴ugp dgnĀn ô x^atqutgpfgl²u crf xqpcpf» vgtĀng/
vgm c nř⁴v³⁴ugp dgnĀn und0 und0 Uqm dgppu|Ā³uv u|gi gfk pgo kuo gtv
cpp{ktc c x^atquv mĀ[¶]p³ugp c vř⁴v²pgv²v o kpv Mrgdngdgti# MĀ[¶]p
³uu|g^anř[¶]qvc c Vku|c/u|cd^an|q|^autc ²u c|^atxk|gntg xqpcvnu|» cf c/
vqnev0 O kpfgpv rqpvcup wfpk cnctv co k e²rck o gi xcn»u[¶]v^o v c
rģi vř⁴xqreddt»n ku gn o q|f[¶]j cvc0 f m ckv c|»vc c u|gi gfk hqj cfcm k
vgo rmo u[¶]fdqm^a dcp u|³kkvx^a dd00

XiO

C nî4²r kunqrc tghqto lc0 ô C tghqto gn|o²p{gk< mÃ fgrgo c| Æ0 p0 gi {u²i gu kunqrc hgn/hgnrdwmncp» i qpfqrç³xcn u|go dgp0 ô C| gi {u²i gu lqi quf³u nîtf²ug0 ô Mrgdgnudgti gn|gvu p{krvnu| cvck c j wo cplu| vkwu vcpw^ap{qm hqpqv/ u²i^at»n) ô C vî4x²p{lxcucrv dgp{Ãv³ucnqt o qpfqw dgu²f< c| gn f³m o wprfl^apcm grkuo gt²ug0 ô C xkfij^adqtÃv nîkgv nî4²r kunqrck tghqto qm uqtuc0 ô Mrgdgnudgti x^atcvcp^a mîuhqi rçfuc c j wo cplu| vkwu i lo p^a| kwo k i^{3/4} vcpvgtxxgn ner euqrçdcp0 ô W»rci qu o»fquf³uqm c o^at nçf qw vcp/ vgtxgnp< èc vî4x²p{ vx^addk x²i tgi cl³uci0 ô C| w»rci qu x^anq| vç³uqm qnçk0 ô C r^ap{nî4²r kunqrck nîtf²upgm vî4x²pp{gn xcn» tgpfgl²ug0 ô C nî4²r/ kunqrck vç^atnîr|²u Æ u|gtxgl vçg0 ô C rqn^atk kunqrc tghqto lc0 ô C rqn^atk kunqrc pci{o²tx hçkç^ai|^auc c euqpnç qtu^ai dcp0 ô C rqn^atk kunqrck vç^at/ nîr|²u tghqto lc0 ô C nî4²r hqm^À i c|fcu^aik u|çnçmç^vu Æ kunqf lc< c hgn u o gl i c|fcu^aik kunqrc o gi u|gtxgl²ug0

Mrgdgnudgti mww^Àr qrkçk^la pcm gi {km rçi vîddgv xkçqv r qpvc c pçx²j gl ner euqç»f» nî4²r kunqrck tghqto 0 O nî4²u²p gm gl c t²u| g x^anqvc nk c u|çngo dgtgm nî4²dgp c rçi j çxgugdd mtkçk^l0 Xku| qpvc c nî4²x²rgo²p{ pci {qdd t²u| g c o kplu| vt o gngw hqi rçv^a mîu0 C j çf kj gn| gv gi {²dnîpv kf nî4 dgp x^anq| qw< c vî4x²p{dg kncqv tghqto qv c r gfc i»i kç nî4³m j gn{gugn²m u c u|²rgugdd t²vç gm u|»/ eu³çgkç v^ocf v^m c| w»rci qu o»fquf³uqmp^an c j gn| gv o gi hqt f wç co gpp{kdgp c r gfc i»i wu u|çngo dgtgm c o kplu| vt gngp hqt f wçm xku| qpvc c vⁱcdd²tvrgo dgp xgw nî4²x²rgo²p{ c| gi {o^auv nîkgv. c| gtgfçk çnrqv nîp{gi²d n nçhçti c w^lçv²| nçf²ugmpgm² rîp/ nçp j gn{gugn0 X²i Æn ku g hqpqv vç^Àgvçp. çj qn c p{w çfv o wpc nçj g/ v u²i g uqnu| qt^a r^auqçdd. o kpv c pgo o gi hçgn kf dgp²u o»fçp nçgçvçgl gw. gi {²dnîpv d^ato kç gp u|gtçpeu²upgm çⁱ2 tngl tghqto. çmçqtç rçw c nîqu|. j çj { o²i c u|çngo dgtgm ugo gi {nîçpp{gp luo gt/ v²m nk o ci wçv c m^Àçpd^{3/4} o»fquf³uqnp^avo gpv vcpvgtxgm u|gt/ xgl çkx^anq| vç³uqm| t/| çxç^adcp0

Co kçqt Mrgdgnudgti o kplu| vt rçw c o^at gn| rçi Æl^au|gtxgl gw Qtu^ai qu M⁴qmc^vuk Vçp^aeu c j^adqt Æ w³p gmçt^Àçj gçvçppgm r^lu|» nî4²r kunqrck tghqto o wprfl^açvçkçn pci {l^adcp nîu| gp xqm0 O²i 3; 3; 0 f gego dgt 7/2 p. vçj^av nî4 xçvçp Æn c dçnçxçk o wu dwnçuc w³p c| çmçqtç

xcnř u / 2u nř4 qmcř u Ā { k o kplu| vgt xcrc o gpp { k nř4 2 r kunqr c vcp^a t
 vgu Ārgv 2 x 2 rgo 2 p { cf^a utc ul » nř qvc hgn c nř4 2 r kunqrck tghqto Ā { 2 /
 llgp0 C o kplu| vgt r qpvcup o gi hqi cm c | qw nřtf 2 ugnř nř^a pv x^arcul x0
 C nřtf 2 ugm Ā { xqncm o gi hqi cm c | xc. jqi { dgr lAm rgi gvgw 2 tglpk
 c | Ā0 p0 ěgi { u²i gui kunqr v ki gpn hrgrgvg0 C r gfc i » i kck nř4 x 2 rgo 2 p {
 c | qpdep c uwi cm c | ^aupcm gmgp^a nxc ^ancř dcp gmwcuř » ^am ur qpvc
 jgn { gl nř gw c | gi { u²i gu kunqr i qpf qrc v xcn ul go dgp0 C ul cnhqn { »/
 krcvndcp nř4 | 2 vgw ekmgm c vcp^a tgi { gu Ārgvndgp rghqn { v xk^o m gtgf /
 o 2 p { gnř pv kpf wv o gi c | w^o p gi 2 ul gp o^a u cncr qp c tghqto gn /
 nř ul nř ug0

C | gi { u²i gu kunqr i qpf qrc v l » hqto ^ap c nřgi { gl 2 u » v nř^o tv gw0
 C nřtf 2 u nř4 r qp v^a dcp c rgi v^o d d gvgdgp c jwo cplu | vkwu vcpw^a /
 p { qm ^a mcn0 C | gi { u²i gu kunqr j nř gk c i 3/4 t n rgo qpf xc. c nř vpv
 gt ugp rgu v^o amgpw g c nř4 2 r kunqrck vcpw^a p { k cp { ci qv gnu uqtdcp c
 o qf gtp p { gkgnl n 2 u c tg^a r^o nd » n nř^a p v m 3/4 ul g^a nř cpk0 C | gn ul go dgp
 c jwo cplu | vkwu i qpf qrc v jctequck Ā { x 2 r m jqi { c | gi { gu v^o 4 v pg /
 vrgi l » n o gi cncr qi qw nř4 2 r kunqrck nř wuqm c o ci wv m nř^o p 2 tv nřkv pgo
 cfjcv^a m hgn c | 2 tv c | gi { u²i 2 tv co gn { eugt 2 dgp rgi h^o d d d i { cnuqrck
 nř p { gddu² i gngv wf p { Ā vcpk fg eucm c ul gmg o k gt m tqx^a u^o tc0
 C | gi { u²i gu kunqr wi { cplu crik j c wf p^a xcnc j c ku o gi nř4 gř vgp k c
 f khtgpek^o iv kunqr v nř wuqm n f qri q | » nř4 2 r kunqrck tgp ul gt ul gmg o k
 v nř gř v nř r gu² i 2 v0 U g r qp vpv j k^o dc j kxcv nř pcm ctte. jqi { j c c |
 gi { u²i gu kunqr l » Co gtnř pcm F^a pl^o pcm Pqt x 2 i k^o pcm Ux 2 fqt ul^o i /
 pcm ud0 ud0 cnuqt l » rgu | pgn Ā pm ku0 C o k kl Ā u^o i wnp cm o^a u kunq /
 Kntc xcp ul Ā nu² i g. gi { ul gt gp c | 2 tv o gtv pgn Ā pm v^o 4 v pvgvrgi hgl /
 n f 3/4 v vř^a v o gi pgo x^a nř | v v j c w ». c xkř i d » n nk pgo knc v j c w »
 cfqwu^o i qnp^a n hqi xc o^a u nř p | gtx^a r p f » m v v^o 4 2 tv nř kpm xcp cm
 o kpv c | go nř gw p 2 r gnp gn0 Rr0 c | Ā nř4 r qp v v lrgpv nř v p i 3/4 3/4
 vcpw^a p { qm pgn Ā pm uqmn n v^o d d g v lrgpv v p gm o kpv ô o qpf lwm ô
 Co gtnř pcm ul gmg o k 2 r v Ā pm dgp uqmn n pci { qdd ul gtgr gv l^a ul qv
 v m 2 u l^a ul cpcm o kpv r f0 c | 2 ul cnk^a mco qnř dcp0

Xcp c | qpdep o^a u ul go r qp v ku0 C | gi { u²i gu kunqr. o gn { rgi h dd
 cti wo gpwo i { cp^a pv c m nř p d 3/4 v^o tucf cm k t 2 vgi gm nř r | gwu² i k
 ul nř qp c nř pcm rgi gv nřgi { gpnř^o u² v ul qmc c o ci c lcx^a tc 3/4 nř p { gvgp
 gmř p { xgpk ul Ā nu² i nř r r gp c o ci cudd ul nř qp c nř rgu Ā nř gf 2 u^o v. c
 wf qo^a p { qu 2 t | 2 m eu v^o amgp 2 u^o v lrgpv v p 2. o gtv c ul nř qp c nřgi { gp /
 nř^o u² v n ul kpv v^o 4 x 2 p { ul gt gp c o ci cudd ul kpv ul qnuw tqul cddvn
 l^a tpk0

Hř it g 2 tv ugm gmg t Ā rř ug e 2 r^a d » n c | qpdep j cpi u Ā nř | q p qo nř m
 j qi { gmř r | gř gv qnř cp gi { u²i ku. co gn { pgo c | qpqu c | ěgi { u²i gui

kunqf xcrf C j wo cplu vkwu i ko p^a|kwo ²u gi {u²i gu n³4²r kunqrc xcrf/ o knqt gi {gv lgrgpvgvgn0 M²u dd Ai { hqtfv wv c j gn| gv j qi { c ngw gi {o^auucn ul go dngntAnv u c| gi {km eucm c o^aukm j qmwgv²p lwj cvqw gn ddtg0 C| 3; 560k n³4²r kunqrc v³4x²p{ Åpm dgdk qp{¶qwc. j qi { gppgm pgo ngm ul Åm²i n³r r gp ¶| { rpplg< c| gi {u²i i qpf qrcv dk q/ p{qu gugvndgp ³4ul gl²t c j wo cplu vkwu vpw^ap{qm rj gv o gi/ vct²u^a xcrf C| 3; 460k tghqto gn n³ul ¶v k c| qpdep c j wo cplu vkwu vpw^ap{qnev pci { o²t²v ndgp eu³4mgpvpk cnet> gi {u²i gu kunqrc tgpful gt uvi cm c|^au^axcn^amcmlu go dgp0

C tghqto qv gn n³ul ¶v o vpr²rcvqm n³p{gi g cddcp hji nrj cv> ³4ul g. j qi { c| Ål tgpfg²u c| cffki gi { ¶v wudc nqo dlp^anv i ko p^a|kv/ o qv ²u tg^ani ko p^a|kwo qv ul²vdqpvqw j wo cplu vkwu ²u tg^ani ko p^a/ |kwo tc u gl gnj gl ner euqnc j q| |^a c tg^arkunqf v0 ¶| { c| cffki k n³v ¶v wu j gn²dg j^atqo ngrvngl gw< c j wo cplu vkwu i ko p^a|kwo i³4³4²u rlvp vpw^ap{qntc xcn> crer q|^auucn o²n{gdd v³4²v pgvk mwn^av n³¶x^apv cfpk c tg^ani ko p^a|kwo n³4²r r qpv^adc c rlvpte crer q| qw o qf gtp j wo cpl^am ngt Ångm o ¶| c tg^arkunqrc pci {l^adcp x^anq/ |cvcp hqto^adcp vx^add ul qri^anc xqpc c h rji o cvj go cvk^atc ²u vgt²ul gw^aqo^ap{qntc v^ocul nqf>^anci^apqu o xgn^ai kgu o²p{v0

Pci {qp hqvqu o q| cpcv xqv c vtxgl i gv²ugndgp c| Å0 p0 gi {/ u²i gu lqi qu[¶]u< o kpf j^atqo ¶v wud>n d^ato k^agp h kunqrc ul cmc rj gvgw lgrpvngl pl0 C p²o gv hgl n f²u vi {cplu dgdk qp{¶qwc. j qi { c j wo cplu vkwu vpw^ap{qnev c o qqr qrk^anv lqi qu[¶]u^a i ko p^a|kwo pgo wflc o gi x²f gpl0 G²tv qw o^at 3; 22/dcp i { |³4v c| gi {u²i gu lqi qu[¶]u i qpf qrcv0 M²u²i vgrp Ån g dgtgpfg²upgm c h kunqrc vpw^a/ o^ap{qndcp j^ax^ap{ck ku xqncm o kpf gpv ³4ul gx²xg c| qpdep c| kv²/ n²f²u c i ko p^a|kwo qv xkuul cefv ³4o ci^apem u rj gv x² vgw c m^a3/4/ d³4 n³4²r kunqrc ¶v wuqmg²ul u²i gu xgtugp{²v0

Mgdgndgti. o kvp Ål o kplu vgt. o kpf gl gngv c| crer grkngv. co g/ n{gm n³p{gi Åndgp c j wo cplu vkwu vpw^ap{qm x²f gm²v lgrpvv/ v²m cpp{k c c o ci^a2 kpcm²tg l vg. j qi { dgn³4ul ³4pv l²dgp c pci {n³4 ³4p/ u²i hgr² c| gi²ul gi qpf q^auv o^at gn tg ul Åm²i guppm vctvqc o gi/ x²f gm gl pk< ë0 kpf ki hglu>x^anc p²|vgo ô o qpf qwc ô c| v c v³4gm^a x²uv. o gn c j wo cplu vkwu i ko p^a|kwo qv rucprikpv rg cnetlc dqp/ vpl0 0 | p o gi xci {qm i { | f xg t>rc. j qi { c| Ål tgpfdgp n³hgl n f vrcul vrcvqm uq^ap t^al³4 o clf c o ci {ct n³4 ³4p u²i ku. o kvp c j qi {cp t^al³4vgm c vpu cdefu^a tgpful gt²pgm j cuppn> cmem c|^auc w^ap c h cpele ul Ån m j qi { ki c|^ap h³qo hglngv gm uqtdcp c i³4³4²u rlvp o xgn^ai crer l^ap rj gv n³hglngv vpl0 M²u dd c rctrcv gpvdp ku j cpi q| vvc. j qi { ul go²n{ ul gtlpvc j wo cplu vkwu o xgn^ai j ¶xg0

Gî { cmcno o cn rîŋ grî²n gp p{krvnu| km c i^{3/4}3/4 p{grk vcpwî^uv j^av
 v²tdg ul qt^ŋ» 3:; 20[~] tghqto t>n co gn{ pgi c^vk lgnzi xqⁿ< i{gpi^ŋ
 vgw c i^{3/4}3/4 3/4 fg pgo wf^c xkⁱ qucp o gi o qpf cpk o kv ngrngp c
 jgn²dg vppk0 C o ci c v⁴x²p{²v c Vtghqt vî^ŋ 3:: 50k v⁴x²p{ ul gt/
 xgu hqⁱvc^vu^a pcm vgnkpv^gv< ëJ crcf lwpm vx^add ô o qpf^c gi {
 cmcno o cn ô c v⁴v²pgv^{gi} dgx^anv cmr qnup0 O lpgm^ŋpm c o[~]Àncn
 u^ao qn[»] 2u c lgrgp pci { ki²p{gk^v o gi²tv n^{3/4}2^r kunqrck tgp^ful gttg
 xcp ul[~]Àm²i[~]Àpnŋ

C| 3; 460 hgd^t0 480^a p dgp{Àlvw v⁴x²p{lxcurev kpf qm^ŋuc ul k^p/
 v²p j cpi u^ŋq|c. j qi { eucm c v⁴v²pgk hqⁱq^vqu^ai qv o gi t|
 ul gtxgu tgh^to nzi gv^a mcpf>dd lgnzi 0 P go hqⁱqⁱ c^vut^c. j cpgo
 »xcvq vx^a dhdgl^ru^l v²utg xcp ul[~]Àm²i 0 Mko grk c j wo cplu^vkwu i ko/
 p^a l^{kw} m^ŋŋ²prgi gu hq^vqu^ai^a v²u c tg^ani ko p^a l^{kw} j wo cplu^vkwu
 lgnzi²v< ëO k^vŋ qi { c^vkv m^ŋŋ²pr³up p^a n^ŋpm À {u[~]»^ŋ p^vi pcr ki
 c| k^tq^cmk u c|^a n^{co}k²rv p{grk^g xqⁿ pppgm kuo g^tvg pgo eucm c|
 gw>rck fg c o ci {ct pgo|gk v⁴v²pgk wf^cv²cm ku grgo k hgn²v^g.
 o qpf j c^v»< c^vkv p^a n^ŋpm pgo|gk vcp^vi {0 O²n^ŋgdd lgnzi v⁴/
 v²pgk m^ŋŋ² p^a n^ŋpm gn pgo i qpf qⁱ c^v»0 Cnk d^ato gn{ wf^q/
 o^a p{dep o²n^ŋgddt^g u^apv. c| c^vkv p^c dwmep(ŋŋŋ) C o qf gtp m^ŋŋ²/
 p{grk n^ŋpm^ŋ *t^cpek^a pcm q^ru^l pcm cpi q^vcm⁺ kuo g^tvg c^vkv p^a n^ŋpm
 wf^q o^a p{qu ul go r q^vd>n i {3/4^ŋtv^gŋp0 Eucm c^vkv ugi^ŋu²i²xgn nzi gv
 c| gw>rck u c o k pgo|gk m^ŋŋ² p^a n^ŋpm hgn f²u² dgp hgn^ŋ p^k i^ŋ p{gi²/
 dgp o gi² tvp^k0 C| gi {u^ŋ i gu lqi q^ŋu^ŋ ut^c xq^vcnu|»^ŋ o gi lgi { |k
 j qi { v⁴dd p{wⁱc^vk q^ul^a i dcp o gi xcp u p^a n^ŋpm ku 3:; 8 »v u^a o qp/
 vtqv>j cl^vuŋ

C lxcurev o gnwv 3; 460 o^a tek^w 480^a p o qf qw dgu²fg tgo gn^ŋg
 ul cdqw j c^vcm cu v⁴v²pgk² u r^gfci »i kck vcpw^a p{0 Grgo² dgp xcp.
 co knqt c o ci c o x²v c| gn f^{3/4}ŋ² j gn^{er} euq^rlc0 T²u^ŋ v^gv^g dgu²n c|
 gnu Tcvk Gfvec^vq^plu/t>n ©to²p{k Vgtu^v a^ŋ pu^ŋ u² O cm^ŋ j c^vcm cu
 o x²t n co gn{ pgo eucm c o ci {ct r^gfci »i kck v⁴gn² ugm v⁴v²pg^v/
 dgp n^ŋtu^l cnq^v cmq>. j cpgo pgo|g^v n^{3/4} k xku| q^f r^vdcp ku c ZXŋŋŋ
 u^a |cf gi {km nzi lgrgpv ugdd kunqr^ul gtx^gl²uk o w^ŋi^ŋ r^vc0 G^ŋ p² r^ŋv
 hgn c o ci {ct n^{3/4}2^r kunqr c Dcej/n^ŋtu^l cm Gpy wh^ŋ l^a ki 0 M^ŋŋ²prgi gu
 v^l v^gv^ggn j>fqn ©to²p{k c| ègnu o qf gtp² v^ggo dgp xgw m^ŋŋ²/
 r^ŋŋ²kwu o n^ŋŋ² pgnk pgnk x^cn²dcp xqⁿ n^ŋpegr e^ŋlc# ©to²p{k^v o^a u
 cmcno o cn ku go nzi gv< vgw r^ŋŋ²kw o^a. xci {ku c|^a n^{co} hgn/
 À {grvg c^ŋ vtqv>» n^{3/4} À i² p^a n^ŋpm c| kunqr^ŋ m n^ŋtf²u²vŋ Kuo g^tvg
 hqⁱvc^vrci qucp c o^a uq^f km Tcvk Gfvec^vq^pku ngr^vŋ^gl²u²v co gn{ gn
 ner euq^rv dcp ©to²p{k vx^a ddk pci {²tf go gn^v ul gt| gwŋ0 G| cmc/
 no o cn o qpf^c gn rîŋ c pci { o ci {ct kunqr^ul gtx^gl èc| gnu o ci {ct

mwAtr qriknek gZr q|² ÷ 0 Pci { xku vgrwgn ²u grkuo gt²uugn i qpfqn
xku|c G³x³u L>|ugh o wpm¹u¹ i¹atc< h rgi c p²r kunqrck v⁴x²p{tg0
T^ao wcv. jqi { G³x³upgm xqrv m¹3p n¹4²r kunqrck gri qpfq¹uc ku
co gn|gv c|qpdep o¹t pgo xcn>u¹ij cvq w o gi 0 O k¹vj c uglv¹gw xqrc.
jqi { c p²o gv kfgrk|o wu xk¹i¹atc p o gi hqi cpv n¹4²r kunqrck tgp¹u|gt
p¹n¹pm pgo hqi v¹rgugp i{³ngtgv xgtpk c|²tv qn|cp n¹4²r kunqrck
tghqto tc i qpfqrv co gn| c t²ik o ci {ct ©to²p{k|f¹rg v¹txgl g¹vg
o gpv xqrc xku|c. c|v h¹gn¹u|v¹gw xqrc vx^add. c|qpdep c h¹cpek
v¹pwn¹ i qm h¹g¹cu|p¹ n¹u¹x¹cn| 3:920^a rtkku 90²p dgp{A|vq w gi { v⁴/
x²p{l¹cxcurvq w co gn| n¹rgpe qu|v¹n|qu i ko p^a|kwo qv v¹txgl gw< p²i {
qu|v¹n| rgw xqrc c| cni ko p^a|kwo. n¹v qu|v¹n| c h i ko p^a|kwo u gttg
²r¹Äv xqrc v¹kw¹n¹f¹ek>xcn c j¹atqo²xgu r¹fegwo 0 C)g¹r¹kunq¹v o gi/
jci {w xqrc. fg c| cm¹qt¹k jcv qu|v¹n|v o²i gi { vx^addk j¹vgf km qu|/
v¹n| v¹g|v¹gw xqrc dg0 Uclpqu. c r¹eg^a nku tgp¹u|gtv c| cm¹qt¹k cp|ci k jgn|/
|gv pgo d¹f¹vc gr0 M¹4 dgp G³x³u o gi d¹vgi gf gw u w>f¹c. Rcwgt. n¹3p|/
v¹rgp xqrv xku|c²tpk c| G¹py wth c¹cr¹l¹tc0 Pci { j>f¹qrwen u|>n
Vtghqv o wpm¹u¹ i¹at>n< pgnk cf¹cvq w o gi ©to²p{k w¹p ²u ©to²p{k¹
n¹Ä¹Än jqi { c o ci {ct v¹p¹Äi { ²tf gn¹ dgp c rgi v¹Ädgv cm¹quuq0 Pgnk
n¹4|³p|Äm c| 3::5< ZZZ0 v¹0v. co gn| c o ci {ct n¹4²r kunqrck qmc/
v¹uv jquu|Ä k¹tg u|>n<cp c v¹Äx²p{ u|k¹ncu|k¹tf c¹cr¹l¹tc¹ jgn|gl v¹g0
O gi go r¹ngl km c| 3;220²xk rqtqu| kunqrctghqto t>n ku. co gn| c o k¹gn¹/
jgl jcuq¹n> gn|o²p{gn¹d n k¹fw¹gn u pci{l¹atc p c| Ä l¹cxcurv¹jql
jcuq¹n> v¹4²v¹gvk h¹gn f²u c¹cr¹l¹p¹ n¹0 Fg u|Äm²i gupgm v¹tlc j¹cp¹/
uÄn|ql pk jqi { c| k¹gi gpd n xgw v¹pwn¹ i qm gn¹p²tg l¹cxcurv u|gt/
xgugp h¹q¹v¹tlc c o ci {ct h¹gn f²u xqpc¹v< äC| ©to²p{k L>|ugh^a ncn
o gi x¹gvw c¹cr qp. Vtghqv pci { cm¹q¹v¹u¹pcm ²r¹u¹i dgp v¹tlc¹u¹xcn
fg h¹i {grgo o gn c o qf¹gtp r¹gfci>i k x¹ko^a p{c¹tc ku cm¹q¹vc o gi c|
²p u|gt²p{ ²u h¹gn u u|go²n|go o w¹pn¹v¹tucko o c¹rn|0 gl v c l¹cxcur/
v¹q0 Pgo r¹r Äpm c|cn c| k¹i²pp{gn c pgo|g¹v{ r¹u gr¹. jqi { g¹gf g¹vk
cm¹q¹w¹pm xqrc. fg c l¹cxcurv o gn|gn l³x Äpm F¹g^am u|²r u|cxck
k¹f²|xg. jgn|gv Äpnj³ ³4²u gt pnj³ ³4²xcp o²txgi 0

U Äm²i gupgm v¹tlc o²i. jqi { c j¹qv p{g¹rgm m¹Ä¹p³u¹gp c r¹v¹p
n¹tf²u²tg gl cm¹q¹o c n ku n¹k²tlgp0 H¹gn² v¹gp j¹kg c jwo c¹pl¹Äm¹
v¹pwn^a p{q¹ncm fg c|²tv o k¹vj c o¹t ci i qf cm¹o tgl gi pg u|cxck/
dcp< äC jwo c¹pl¹Äm¹ i ko p^a|kwo j¹kg¹l¹gm c|v o q¹pfqo. jqi { c|
²p n¹Ä¹tr¹gvgo c| w¹qn> k¹g¹p n¹Ä¹tr¹gv O ci {ctqtul^a i q¹p c jwo c¹pl¹Äm¹
u¹v¹kwo qm o gi xcn>u¹ i¹atc¹0 J cpi uÄn|ql c. jqi { gl g¹ngv c v¹ti {cnev
k¹g¹ l>n ngm v¹p¹Ä¹cpk m¹Ä¹p dgp c| gn¹pn¹g¹ e²iv²tlÄm gr0 G¹gp c
v¹tg¹ pgo kuo gt v²Ä¹# Xku|qp v c l> v¹p¹Ä¹u¹ g¹gf o²p{gk gi²u|gp
tgp¹n¹Ä¹Äk jcu|pqv jql j¹cvpc< äC| ²p gi {²pk o gi i { | f²ugo c|.

j qi { o kpf gp o^a u o xgn f²uk cp{ci qp hgn^ñ c j wo cplu^ñ kmw u v^f kwo
 2u c i^{3/4} 2u r^v p m^w v^ñ c|. co gn^f n^{gi} kⁿ fⁱ dd c^m e^o cu c| kⁱ l^à
 gr² l² p^g m c h k^u n^q r^c k v^p w^a p{qⁿ t^c x^c n^o gi² t^g r^u f² t^g 2u^a n^c fⁱ p^q u^c p
 o x^g v^o go d^g t² x^c n^o n^r |² u² t^g i 0 O^a u c^m e^o n^q o o cⁿ v^g w p{ k^v e^v u^l c^v k^l
 d[»] n n^k k^f i r^k m o kⁿ fⁱ gp o² n^f gp^a vⁱ p^q f^q r^v h^g h^q i^a u^c x^q r^v c n^{3/4} 2^r k^u n^q r^c
 h^w pⁿ e^l l^a t[»] r^o P go c| k^u o g^t g^v o g^p p{ k^u i u^l g^t k^v p^g c h^q p^v q^u. j^c p^g o c|
 gⁿ u^c l^a v^h q^w cp{ci g^m gⁿ f^r | g^t g^l g[#] C| g^m 2^v n^g m n^r k^c n^f t^q | p^k O gi
 n^g m v^e p^w p^k i p^q f^q m^q f^p k 2^u f^q iⁿ | q^l p^k U g v^g n^k p^v g^v d^g p^c i {q^p h^q p^v q^u c^m
 c j^q v^v p{ g^r k^g n⁰ C h^g p^k l^e x^c u^r v^q v^g n^v t^l g^u | v^g d^g u² f² d^g p c r^v k^o t[»] n
 x^c n^u i^q u j^k o p^w | v | g^p i < o gi n^{3/4} p^p { v^k c o q^f g^t p { g^r k^g m v^e p^w i^u v.
 o x^g n f² uk g^t g^l g^h n^h u^a o v^h j^c v^e v^e p. o g^t v c n^g i u^k d^l. n^g i h^q p^v q^u c^d
 o x^g n f² uk h^q t^a u^q n^e v p{ k^l c o gi 0 P go k^u o g^t k^g n kⁱ c^l a^p o x^g v
 go d^g t^g p^g m cⁿ k V^e c^k s^w u^v 2^u J^q t^e v^s w^u v p^g o q^r x^c u^c # D^a v^q t^g d^g u² f^g | c
 p^g o | g^v i { r^f u^g p. c^j qⁿ d^k q^p f^a t^c cⁿ e^f v^c m qⁿ f^q p^q m cⁿ k^m g o gi j^c v³ /
 t^q | a^u o k^e w^r gⁱ c^f d^d v^s qⁿ d^e p o gi u² v^f j^g v^g m^x qⁱ p^e 0

C v^{3/4} x² p{ *3; 46< Z^r f^o v^g t^o c^t a^p { rⁱ u^o a^p a^v o g^v p^v < x^l j^c t^q m
 kⁿ fⁱ d^d e^u c^m c o gⁿ fⁱ m³ f² u^g m n^{3/4} Aⁿ v^o c^f v^e n⁰ G^m g^l | 2ⁿ k q^r f^e r^t » n rⁱ f^o
 n^h qⁱ a^u qⁿ m j^q i { c n^{3/4} 2^r k^u n^q r^c k v^{3/4} x² p{ d^g p p^k e^u g^p d^g p^g c h /
 k^u n^q r^c k p^w o g^t w^u e^r v^w u^u g^m 3/4 r^f u^g # P c i { 2^t | g^m k o q^l i c^m o u^a i q^v
 x^a n^q w n^k c| k^u. j^q i { c o k^l u^l v^t c v^{3/4} x² p{ d^g p p^g o x^q v^v j^c l^e r^e p^f »
 aⁿ fⁱ u^v h^q i r^e p^k c h^g n² v^g r^k x^k uⁱ a^r v^q m^e n n^r e^u q^r v^e d^e p 0 Gⁱ 2^v l^q d^d t[»] n
 2^u d^e i t[»] n gⁱ { h^q t^o a^p v^o c^f v^ñ k^o d^e i t[»] n c^l 2^t v. o g^t v p^g o v^{3/4} x² p^g n
 l^q d^d t[»] n c^l 2^t v. o g^t v p^g o j^g n^f | g^l v^g c t^g p^f g^m g^l 2^u v v^{3/4} x² p{ c^r i r^l a^t c 0
 M^r g^d gⁿ d^g tⁱ p^c i { q^p Aⁱ { g^u g^p x^a r^e u^l q^r < G^{3/4} x^{3/4} L^o | u^g h k^u u^l Aⁿ u² i g^u p^g m
 v^e t^v q^w c h^g n² v^g r^k x^k uⁱ a^v. o 2ⁱ r^g f^k i p^g o e^u c^m c n^{3/4} 2^r k^u n^q r^c k v^e p^w /
 o^a p{ q^m g^r g^l 2^p. j^c p^g o c| gⁱ { g^u v^e i q^l v^q vⁿ d^e x^c n^o h^{3/4} n³ r² u. u v c|
 gⁱ { g^v g^o t^g x^c n^o d^g k^e v^u q^l a^u gⁿ w k^u. r^g f^k i n³ u² i d^g x^q p^j c^v e^r v^e p^w n
 n^k d^g t^a r^u k^u go d^g t^g x^q n[#] Gⁱ { gⁿ t^g c h^g n² v^g r^k x^k uⁱ a^r v^q v h^g p^p v^e t^e v^e p^f » /
 p^e m x² r^k c v^{3/4} x² p{ l^e x^c u^r v^e d^e c^l q^p d^e p p^g o h^q i r^e r^e c d^g 0 C x^k e^v q^w
 t^g p^f g^m g^l 2^u p^e r^l e^k gⁱ { 2^d n³ p^v o^a t^g g^m q^t v^s qⁿ d^e p o gi x^q n^e c^m u^l a^o /
 n³ k^c 00

C| Aⁱ v^{3/4} x² p{. j^c p{ wⁱ q^f v^e p x² i t^g j^c l^v a^m 2^u c| g^u g^v n^g i g^u v^e r^e c^u /
 v^e r^e v^q n^g | q^l n³ r^g u^v n³ u^o d^d » x^c v^q u^c p v^q x^a d^d h^g l^e n^g u^l v^m o k^l f^g pⁿ r^r r^g p
 c^m e^o cu n^g w x^q i p^c c^t t^e. j^q i { n^{3/4} q^m c^v u^w p^m v^{3/4} v^g p^g v² d^g p c V^t g^h q^t v^l
 l² r^g v^{3/4} x² p{ j^g | j^c u^q a^p n^o » f^q p n^q t^u | cⁿ u^l p^g l^e r^{3/4} i^{3/4} p 0 F^g t^q u^l k^f d^g p.
 p{ wⁱ v^e r^e p n^q t^u | cⁿ u^l p^g u^l A^ñ g^v w u q^u l^v q^w c j^a d^q t^à w^a p n^g r^g v^g n^g | g^w
 j^c u^q a^p n^o m^ñ 3/4 f^k t^g h^q t^o q^m u^q t^a v⁰ P go n^g i g^v g^w j^q u^u | A² n^g v[#] O^f
 c^l q^p d^e p m^ñ 3/4 f^{3/4} p^g t^g p^f u^l g^t k^v c| w^w f^q m d^q p^v q^v a^m n^g c v^{3/4} d^p { k^g
 o^a u r^q r^k k^e k^e h^g h^q i^a u^v x^c n^o gⁿ f^{3/4} n^o c^m u^q v^u e^u c^k. M^r g^d gⁿ d^g tⁱ 3/4 p^o cⁱ c
 j^q t^f v^e n^g c o cⁱ a² v⁰ W^e d^d v^{3/4} x² p{ kⁱ o^a t^g p^g o l^w q^w gⁿ c^l q^p d^e p c|

kf nř4k o »fquřv uqmmen co gn(gm x²i Ān o²i c vř4x²p{ dgv l²xgn
 ugo o ctcf vcm ř4u|j cpi dcp. c| gtgf gvk gri qpf qřuv cpp{ktc u|²v Ā v.
 j qi { c řp{gid n o^at crki o ctcfv dpppg xcrc0 G| v c hqř{co cvqř
 tř4kf gp o gi nrm xkři řcpwpm o gtv c ocic pgo²dgp u|kpvg gi {gf Ān
^amřgdgnudgti gi²u| mwwřr qřkřkřko nř4²u²dgp0

C o lřku| vgt pci {qp l»n wřv. o ci c ku vř4du| ř4 j cpi q| vew.
 j qi { c vcpĀ {k tghqto qm nkr t»d^a ř^a ř^a j q|. ^amcř dcp x²xg c vcpĀ {k
 dgtgp f gl ngř²ugm gtgf o²p{gu o nř4²u²j gl gnu uqt dcp p{wi cmřo²u
^amcpř »u^ai u| Ām²i gu0 MĀř4p r tqdř o cmř pv xgvwg hgr< j qi {cp ngj gv
 c| ^amcpř »u^ai qv nř4^ap» mwwřr qřkřkřv c rctrc0 gpk tgp u| gttgn
 co gn(dgp c| gt xku| qp{qm o²i ku i {cmt d dcp x^anq| j vcpm dř4eugp
 ř4u| ggi {gl vgpka MĀř4p ř4ugp c| kunqř mřv ř ngwg c i {qtu x^anq| ^auqm
 wř0 ěC| kunqř pcm j qi { xk^ai q| jcu²m ^amcpř »u^ai tc²u p{wi cmřo tc
 xcp u| Ām²i g0 O ř | g| v j cpi u Ān| q| qo. vgo²u| gvugp vř4ř ngvgp vř4xq
^amřm cw»n j qi { c r g f ci »i kck nřp| gtxcvkř o wu. xci { ²rrgp c
 svkř v o wu ²tf gn²dgp go gřlgm u| »ř0 C tghqto qm u| Ām²i gugm²u gř/
 gpi gf j gvřpgm c| qp dcp euv^ap c l»n ^avi qpf qřv²u j qu| Ā kf p^av
 nkr t»d^a nřv tghqto qm o gn(gm gv pgo nrm tř4kf gup dgxg| g²u Ām wř p
 o gi x^anq| vcpkř0 Ctep{ u| xcxcř Eucm ô uclpqu ô gl cmřqo o cn
 o^aupcmdkř qp{wřv| gm²řv²u o^aupcmc i {cmřtřv0

O²i crki u|^atcfv o gi c p{qo fchgu²m c| Ā vř4x²p{ crr l^ap
 nřcf qw vcpřtxgnp. c o lřku| vgt o^atku o »fquřv uv lcxcuqř< c j wo c/
 plu| vkwu i ko p^a| kvo dcp c i ř4ř4 ř4 c kř0 qu| vř n{d»n c| X0 dg nř4^apc
 hgnqřkř0 P go uqmmen gn dd o ci c o wcvw t^a. j qi { ěc j qn c i ř4ř4
 p{gřgv vcpř^am gl v o lřp gp Āw c o k j cto c f km qu| vř n{vnpem o gi/
 hrgn²xhqř{co dcp ng| f kř0 Gi { lř ř x o Ākřc o^at hgu| »rcn c rctrc/
 o gpvdgp c i ř4ř4 p{gř v Āngpi²ug gngp ô vgo²u| gvugp pci { j gn| gu/
 ř^au nř4²tg²dgp0 C dg pgo cxcvq w gn w lrgpř mrgp o »fquřv upcm
 ř^au| km c| gi²u|0 Nřp{gi kři c| qp dcp c vř4x²p{ ř vcr l^av lpi cwc
 o gi 0 P go cnetqo gl v c nřtf²uv ngnv²p²n pci {qdd pgnkř u| Ān f²u gn
 o gi xkři řcpk c hqřvquedd o q| cpcvqřv o²i ku o gi nrm go řřpgp.
 o gtv c nřu ddk pgj²| u²i gm l»t²u| v gdd n c| gnu o »fquřv ud»n u|^at/
 o c| vcn0

Gř4ř^at»dcp kuo²vřpgo nrm j qi { kv pgo gi { vcpř ti { vgt| gu|/
 ngř²uk x^ai {^at»n xci { dkřvqř mřo^ap{^apcm o gi vř vř t»n xqřv u| ».
 j cpgo qř{cp nřtf²u gř ř4př²u²t n co gm(gn c tghqto xg l²tn gřg
^amř xci { dwnqř0 C i ř4ř4 c| Ā j wo cplu| vkwu i ko p^a| kvo pcm pgo
 gi {km cmř to kř{gp vcpř ti {c xqřv j cpgo g vř wu ur gekřkřo c. co gn|/
 pgm ngř x²tv²rrgp gl v c vř wuv c tghqto vř xg| k o gi cmř wř n0
 Mř vř i vřgp. j qi { c o lřku| vgt c j^atqo vř wuv. nř4 v Ām c j wo cplu| vkwu

i ko p^a | kwo qv ku dl̄ qp{qu o² t^v nki c n̄⁴ x² rgo² p{ p{qo^a uc gmp² tg
 cm̄qwc o gi. fg o² i ku c ucl^a v grj c^v tq|^a u^v c ucl^a v lqdd o gi i { | /
 f² u^v n̄⁴ gwg. co knqt c m̄w̄w̄^a rku o Āw² t^v nḡj gl xc̄» tci cu| nqf^a u
 lgi {² dgp c| gi² u| gr̄i qpf qf^a uv c o ci^a x^a vgw0 C j^a tqo v̄f^a wu r̄gi h dd
² t^v ng c| qpdc p eucm Āi { dqpvcnū| jcvqw xqpc nk j c pgo | u Āhrlwm
³ u| g c| gnc l^a v̄| cpf » kuo gtgvc p{ci qv j cpgo o kpf gi { km kunq̄chelv c
 o ci c l gmg i² p gm² r̄ghqto^a l^a pcm o gi h̄rgn gp n̄⁴ gwng| gwugp² r̄f̄l Ām n̄0
 C i³ 4³ 4 p{gr̄k gv eucm c j wo cplu v̄mwu i ko p^a | kwo vcp̄f̄qwc.
 C t² i k i ko p^a | kwo qv cnc r l^a dcp x² xg c i³ 4³ 4 p{gr̄k ngf x² tv dqpvc
 gl² v c tghqto n̄^v m̄⁴ p v̄f̄ wutc0 U j c o^a t c i³ 4³ 4 ngf x² tv c v̄⁴ x² p{
 m̄⁴ p v̄f̄ wuv r̄^v gūf̄ gw. c r̄gi v̄to² u| gwugddp gm r̄^v u| qw. j qi { gl c v̄ ti {
 c o ci c u| Ām² i gu o kpo^a rku vcpv̄txk ngtg^v v pg p² m̄⁴ i| g0 G| r̄gw
 xqpc c| gtgf ḡv̄gi gr̄i qpf qv j cv² x0 C o kplu v̄t r̄g f ki² r̄rg p| gl v
 cnc v c t² i k p² i {² xt g r̄gu qt̄f̄ cpk cok c p{kv lgr̄pvgw. j qi { c|
 gi² u| Ā0 p0 tghqto gl| gn w̄w̄^a r̄i v̄r̄l gup h̄⁴ i| ugi gup gm o k p u Ām0 O ci^a /
 w̄n² tv g v f r̄gi c vcpv̄tx gi² u| g u| kp^v p tqu| w n l^a tv xqpc0 Gi { n̄² u|
 vcpv̄tx. o^a t dgqu| vq cp{ci i cn pgo ucmm³ dr̄. co gr̄{gp c h̄i w^a m
 kf̄g/qf cv̄qj cw̄m j cpgo rtgēf̄ l̄u u| gtng| gv co gr̄{dgp gi { nku t² u|
 o gi dqn̄ i c^v u^v c| gi² u| o gi u| p{ n̄0 X² i gtgf o² p{dgp c| Āl gm̄² r| gr̄² u
 o gi v̄ o cf v c j wo cplu v̄mwu i ko p^a | kwo lqi quw̄u^a i^a v u n̄⁴ xgw̄g c|
 gi² u| tghqto² # C| qr̄gt^a ek̄v c| Qtu^a i qu M̄⁴ qmc^v uk Vcp^a eupcm
 nḡngw xqpc x² i t̄gi clv̄pk. gl c| qpdc p kpn̄ dd v̄g u Ārg v̄gi r̄go qp/
 fqw. ugo j qi { c n̄⁴ pqu h̄r̄f̄ cv̄q x^a m̄r̄ic0 C o » f̄ qu^v u o² i ku o gi xc̄» /
 uw̄w̄^a M̄gdgnudgti pci { cnc tv̄t gl̄g i { |³ w̄0 M̄⁴ u dd c| | cn x² f̄ gm̄| gw.
 j qi { c i³ 4³ 4 p{gr̄k vcp̄f̄ u^v h̄gn̄ Āi n j q| v̄ m dg. c n̄⁴ x² rgo² p{
 v̄ o qi c^v uc p² m̄⁴ n o^a t r̄g f ki u| gtl̄pv c n̄⁴ ² r kunq̄r̄ n̄² t² u² dg dgr̄/
 u| » r̄² uv nḡm gpi gf̄ pk c| ² tf̄ gn̄ gn̄ p gm ku0 G| gn c| gr̄k xgn o gff n̄⁴ ² tr̄g
 r̄ppg xk³ dc u^a npl0 Dk̄ qp{qu c| qpdc. j qi { h̄p̄v̄qu vcpv̄txk n̄² t² /
 ugnv c r̄gi f go qntc v̄mw̄uccd qtu^a i qndep ugo u| qmcm j qm k p² r /
 u| cxc|^a ucn gr̄³ / v̄gp k0 C n̄⁴ x² rgo² p{ v̄⁴ ddu² i g vi { cplu o kpf gp Āw
 i³ 4³ 4 ³ / pgo vcpw̄^a n̄² » n c r̄gi lqdd gugv̄dp Ā0 p0 ēi³ 4³ 4 r̄ » v̄ uqnd̄ » n̄
 t̄gn̄ w̄^a n̄ f̄ kn̄0 U c h̄² two qp u| gtgr n j cpi qu n̄⁴ x² rgo² p{ o gn̄ gw xcp
 gi { eugf̄ gu c pgo | gv² r̄ghqt^a u^a p^a n t̄p̄f u| gtl̄pv | clv̄c p̄w n̄⁴ .
 c n̄0 xgn v̄go dgth m u| nḡdd n̄⁴ ³ u² i² dgp² n n̄⁴ x² rgo² p{. co gr̄f
 u^a o dcp v̄to² u| gw| gt r̄gi n̄kugdd. j cpi dcp u| gt² p{ gdd. fg c|² tv
 uḡi qi { cp ugo u Ān̄ v̄c p̄cd d0 R^a t² xxgn n̄² u dd M̄gdgnudgti gv gi² d.
 l̄ » n o gi² tf̄ go gn̄ i³ 4³ 4 nk̄ v̄p̄v̄² ugk o gn̄ gw c Rctpcuqu e0 i³ 4³ 4
 kt̄qf cm k v̄² tuc^a i dgx^a r̄u| v̄qwc vi lck n̄⁴ ² 0 Dk̄ qp{qu. j qi { gj̄j gl c
 nk̄ v̄p̄v̄² u| g| c| cnc r̄qv pgo c n̄⁴ ² r kunq̄r̄k i³ 4³ 4 vcpw̄^a p{qm n̄⁴ Ān̄
 u| gt| gw² tf̄ go gm̄u| qn̄ i^a ncw^a n̄0

O²i o kpfki pgo rgw xqrc pci {qdd dcl. jc gl c| gnu o »fqu¹u
o gi o ctfv xqrc gi {dgp c| wqru»pcn⁰ Uclpqu. pgo ¶ { v⁴v²pv<
Mrgdgnudgti vx^addo qt|uqnc c ucl^av v⁴x²p²v. ^atvcwcpwn gpgxgl/
x²p c| w»nci qu o »fqu¹uqnev c ëv⁴x²p{ vx^addk x²i tgi cl^vu^apcm⁰ 0
U . cnk o kpfgp^{Aw} o^auwv gnu uqtdcp c u|cngo dgtgngv jcmi cwc
o gi. c n⁴2^rkunqrc vgt²p ô n¹wc c u|cngo dgtgm dgnu gmppngl²u²v ô
x²i^{Än} ku o^at gngxg gi {gpgugp i {cp^Äupcm vnkpv^{gw} o kpfgp nqo r gvgpu
dgrgu »n¹u⁰ Gi {km n¹gi j¹xgdd o w¹nev¹tuc ²u dct^alc. Mqtplu I {wrc.
²r¹rgp gdd n c| qnd»n o qpfqw rg ^amco vkn¹tk Ä {n⁴2^t r⁰ Xqiv pgnk
gi { pci {qp jgn¹gu ^anci¹pqu gngc c vcpw^ap {k tghqto qm x²i tgi cl^v/
u¹pcm rgnk hgn²vgrkt n< ëC| kunqrc o gi tghqto^an¹uc eum cmat¹ r¹gv
ukngtgu. jc c pgo |gv n⁴i qpfqm¹u^ac c tghqto o w¹n¹v jgn¹gu¹u¹gn
n¹l¹tk ²u c n⁴x²rgo²p{ gtglg rgn¹fk c|qnev c| »t¹k¹uk pgj²u²i gngv.
co gn¹gn¹dg c n⁴h¹h¹q^au k¹ o²n¹tgi cw» o gi x^an¹q|w¹uc ²u kunqrc/
u|gtxgl gv¹pm ^avcrn¹u¹c u|Äm²i u|gt gp Än⁴km⁰ M¹v²i vgrgp. jqi {
gl cm¹qo o cn c| kn¹v²ngugm c jqi |^a2¹vm c l¹tfq|^auqm ²u ^arfq|c/
vqm u|Äm²i gu²i²v h¹kuo gtpk w¹»m n⁴x²rgo²p{²t n dgu²n⁰ Co kn¹t
c|qpdc c n⁴2^rkunqrc¹ n¹t²udgp c ëvx^addk x²i tgi cl^vu^acn¹ ner/
euqrcvdc c n⁴x²rgo²p{v go n¹gvk c| kn¹v²ngu n⁴x²rgo²p{v
tgp¹u|gt¹pv jcmi cw»nci qucp dgj gn¹gv¹u¹fk c| kn¹v²merppgn xci {
c n¹lqdd gugvdgp c| ²tfngn¹ngn o²i r¹g¹ki c u|Än m n⁴x²rgo²/
p{²xgn col¹n rgtu¹g uqm l¹rtg²t¹v¹ v¹o cf⁰ C| Ä v⁴x²p{ cdd¹n
c o gi i | f²ud n nkpfwxc. jqi { c n⁴pp{ n⁴2^rkunqrc cfqw jgn¹/
|gv¹pn¹dg u|qek¹ku d p rgw xqrc. c u|grn¹ev jcv¹cw¹ucddcp u|qn¹/
i^an» pgj²/ n⁴2^rkunqrc¹ vgtgo vgw. co k c| ²tfngn¹ n⁴x²rgo²p{pgm
vgt²u|gv¹gt n¹ pgo xqiv ¶p{²tg⁰ Mrgdgnudgti o »fqu¹uck xku|qpv
c n¹i v⁴id gugvdgp gi {Ävcn n⁴pp{¶²uv ku lgrpv¹vgw⁰ ¶ { r¹o c ëvx^addk
x²i tgi cl^vu^a gi {km hqpvqu k¹v²|ng²u²pgm u^apw c|v c tgp¹gm²u²v.
co gn¹gn c r¹vpv c t^an¹ko p^a|kwo gnu qu¹v¹n^ad»n c jcto cfkn¹dc
vqnc h¹o Vgt²u|gvugp gl cm¹qo o cn o kpfc|v c u²r¹gv ²u l»v. co kv
c|gn w c r¹vp¹»n o kpv c o qf¹gp m¹w¹Äc ²u c o qf¹gp p{gkx¹pv¹u
c¹r¹l¹a¹t»n ¶¹v ²u o qpfqw. n¹p{vgrgp xqiv g¹h¹g¹v¹pl⁰ G| rgw xqrc o²i
c n¹ugdd dcl⁰ C|qm c| ²txgm co gn¹gmgn Äcdd k¹v²|ng²u²v c¹v¹o cu|/
vqwc. c r¹vp p{gkx ²u m¹w¹Äc gngp uÄ¹qu x^afcnev ku v¹twc|v¹cn⁰
U o kgn gl gngv ku ¶¹a¹udc h¹i rnc. c ëuet¹rc o cpgp¹ gkx c¹r¹l¹p
n⁴pp{ xqiv n¹ko wcvk c| gngpvo qpf^auqnev. c n⁴kgv¹gv¹pu²i g/
ngv⁰0G| vgt²u|gvugp o gi ku v⁴v²pv⁰

Wqru» k¹v²|ng²u²g c o gi tghqto^anv n⁴2^rkunqrc¹xcn ner euqrcvdc
dgvv |vg c v⁴x²p{ o gi ugo o k¹v²u²v< n⁴xgv¹Än rgo qpf^auc gn w
gtgpfng. jqi { c jwo cplu¹ v¹nu i ko p^a|kwo dcp c i³/₄ h¹mw¹cv¹fk

v̇ti { rgi {gp. x^ancnq|jcuu²m c hcpel^kxcrD G| c| kp^v|ngf²u o^at c
 v̇4x²p{ dgv l²xgn ku gngp^vdg lwqw ô c v̇4x²p{ ul gngo²t n pgo ku
 dgu²rkG0 C tgpfgu v̇ti {cm n̄4³4w jgn{gv n̄k^apv eup^apk c i {qtu^fa/
 pcm co k ul kp^vp c xkcj cw²t^vm v̇4gnx²ugm n̄4² vctq| km pgo
 eucmgnkku go r qpd>n j cpgo c i {qtu^fa ul>nhrhqi qw²tf gn²dgp ku0

C| w>nci qu tgpfgmg|²ugm gi {km n̄4³gvng| o²p{g xqrx jqi { c|
 kunqrck²rgv dgu tgpflg x²i rgi hndqo nqw< c vcp^atqm²u fl^knqm pgo
 wfj cw^am o kv j q| c rgi n̄4³grgddk l³k 0 O kpf gp pci {qdd^a v̇qi »
 tghqto. c| Ā²t^vngm gngp²tg. co kngv j q|. r g f c i » i l c k u l go r qpd>n
 ul Ān²i gu tqul pcm o kp t^fij gv. o gtv gi { k f tg hgmexctlc c p{wi cn/
 o cv²u^ancpf>u^ai qv. c ulngtgu vcp^fv u gnu hgn²vgr^v0 J^av o²i qw.
 cj qn^ancpf>cp tgp i c h̄4f. o kn gp pgi²| gtgf o²p{gu r g f c i » i l c k
 o wpi v x²i g pl# K{gp gugvdgp c|²rgv v c rgi t³k k f gdd k f p dgn²n
 o gi d²p^flc c n̄4²i. c dk qp{vcrpu^ai²t| gv xci {. co k vcf p gpp²n ku
 tqul cdd. c lf uww n̄4³o d³u²i 0 G| v̇4^vpv c n̄4²r kunqr^axen cmqt.
 co k p c|²t^vgrn k²i k nix^aru^v u o wpi lc c euqpnē qtu^ai dcp hq/
 vqucda^a rgw. o kp v xcrj c ku xqm0 C hqn^avppqu x^anq| v^vuqm n̄4³pp{^fv/
 ugm c| kunqr^am dgu²rg^vv^ancpf>cp dk qp{vcrpu^ai dcp vctw Ācdd
²u Ācdd tgpfgmg|²ugm nqtul cni dcp c n̄4²r kunqrck²tgw²i k gwgm
 ul^ao c c euqpnē qtu^ai dcp gn²tv. u v v̇4j crf v c v̇4^vpgk qtu^ai
 cdkw^akpug^agm i²u^av. co k³po ci^adcp x²xg ku c| v o wvlc. jqi {
 c ul t ul gtn^agv. co gn^apgm ugi^fu²i²xgn gi { v̇tucf crqo c|²t^vgrn k/
 u²i j g| vctq|>nēv nix^aru^vlc. xcrj qi {cp grqo nqw# C| gi²u²i/
 vgrp²t^vgrn k²i k v̇4ngto gn²upgm²u c| gdd n n̄4³gvng| pci {qp u²n{qu.
²xgngp^av vctw ul qek^aru dclqncm kv xqrx vcf p c rgi o²n{gdd i {³ngtg0
 Gj j g| n̄4³rguv pgo uqnev ul^ao^fqw. jqi { c n̄4²r kunqr^am ul^ao c wrc/
 f qpn²r r gp crki ul er qtqf qw0

Ok gttg c o ci {ct^acvA Ok c| qnc eppcm jqi { Mrgdgnudgti
 n̄4²r kunqr/r qrkni lc c| gnu pci { tgo²p{gm w^ap qn{cp ngx²u
 o ctef cpf> gtgf o²p{v j q| qwA J ku gp. o kp v n̄4³wm c o loku vgt
 crer l^adcp x²xg tgpfn̄4³Ān²rgusp n̄4³xqpcrc| v c n̄4²r kunqr hwpnēk/
 l^av. r qpvcep rgo²tv c| gi {gu v̇ti {cm j lgtctej knwu lgrgpv u²i²v u
 o ci c wf v rgi lqddcp. jqi { c| kunqr cr qrknc j quu Ārg^atcvA x^an^am
 nēn f qn i q| km co gn{gngv pgo ul cdef k gn w dgo wcvk²u o gi/
 >>xcvqpl0

Gi {km dk cm cu go dgtg^fv t>rc< ē f o d^at mēu| kni k o xgn²i
 go dgt²u v̇4^vpgwwf>u xqrx o²i c mēu| knwu p{grxgm vcp^fv u²t>n ku
 o²rd^aūcp rgo qpf qw. eucn j qi { c o qf gtp p{grxgm gnucl^av^f u^axen
 rgdqvuc c| v c x^aru^v hcrv. co gn{ c| qru^v cpi qrx hcpel^v gm^aĀ³pk
 c o ci {ctw>n0 C o gi qnqr^audcp xcp xcrō k li c u^ai 0 Cddep c o loku/

vɛtpgm vɛrgugp ki c|c xqiv jqi { c rɛvp p{grk p{qre 2xgp a v hqñ}»
 vɛp^uuc c| gugvgm v̄Ap{qo » t2u|2dgp pgo jqlv o gi c|v c| gtgf/
 o2p{v co k ctap{dcp ngppg c| kf xgn 2u lf tcfql a ucr0 C|v i qpf qmc.
 jqi { c| kf v uqmen jcul pqueddep ngjvpg o qf gtp p{grk vcpw0 a/
 p{qmen gn3/ngpl0 Vkqndcp ctt»n ku o gi xqiv i { | fxg. jqi { c rɛvp
 kfglg ngl^atv0 Mpu dd c|v ku o qpfv. jqi { c v3/4x2p{ dgp{Àlv ucnqt
 o2i pgo xqiv ngi gpf o qf gtp p{grk ul cnuv vcp^atc0 Gl2tv ku fg
 o gi c|2tv ku ogtv èn^o2rpk cnetv nq|gtxcv^okcdd r gfc i »i wuckpm
 2t|2ngp{u^ai2v. jqi { jqi | a ul qmcuc ngv c m̄v̄Adqwa p{ grklug^u2/
 jgl u jqi { kf v cflqp c| »tl^ouk ul a o À rɛvp vcp^at eu3/4mgp^vu^ogi.
 dgp{Àlvqc c| 3;460k v3/4x2p{lcxcuvv0 Gddgp ku ngj gv ki c|u^ai. fg
 o2i o kpf ki pgo gr̄i cpcmc o gi o ci {ct^a u^ajqi. co kv3/4v p0

C|v jku go. vɛr p n3/4grdd lwwpm o ci cctv^auc o gi hglv^ujgl.
 jc h̄i {grgo dg xguu ãm c| gi {km rctro gpk p{krv̄u|cv^v co gn^o2i
 3;450 cwi wu wu 5302p jcp|qw gn< èM^ou|gp xep c n3/42rkunqrc tghqto
 ku co gn^opgm tgpfl2p gi { À kunqrcv̄wuv cnetwpm o gi jppqu^ocpk
 c tg^ani lo p^a|kwo qv co gn^op2n ul a o qpk cnetwpm c jcrf» nqtten 2u
 ul a o qpk cnetwpm c ul ãm gi { ki gp ul a o qwgx t2u|2pgm »jcl^axcr0
 Go n̄lgwgo. jqi { c n3/42rkunqrc tghqto o wpi^orvck l»t2u|v o^at n̄u|gp
 xqncm cmt. co kf p Mrgdngdgi c o kpu|vgtk ul2ngv gr̄hi rnc0 Gl
 c p{krv̄u|cv gr̄twlc. jqi { c tghqto d»n Mrgdngdgi gv gni uqtdcp c
 tg^ani lo p^a|kwo i qpf qrcv tci cfv o gi. co gn^o c o qf gtp jwo cpkq^a/
 nev vgw c vcpw0 a p{k cp{ci n3/42rrqp^adc0 U jc c èvxa^addk x2itg/
 jcl^vu^o »fqu^ou^oclp x2i ki vgnk^vpm u gi {2d p{krv̄u|cvk^v ku ul a o dc/
 xguu ãm xk^ai qu^a x^ark m jqi { Mrgdngdgi c m̄v̄v̄f k nqñ^ai kwo qm 2u
 m̄v̄v̄ner euqrcv̄m n̄r^o2ug w^op c tg^ani lo p^a|kwo qv cnetv gi {gn tg
 ngi cñ dd wtcmqⁱ» v̄r wu^a. n̄u dd gugvgi gi {gvgp v̄r wu^a hglngu vpl0
 Gl2tv jcvro cuqf qw gn ul go r̄ngv^op c n3/42rkunq^axcn ner euqrcvdep.
 gtgf gv^a n̄i ur qp^axcn gmgp^vvdgp. c jcul pqu^ai k ul go rqp^v vto 2/
 ul gv̄u v3/4v pgk lgrpu^ai. ô ¶lc ô jqi { m̄v̄v̄p3/4ugp c|qm c nqtqm
 xgvw^om hgn c jcul pqu^ai rtdr^oa^ol^av c| kunq^axcn ul go dgp. co gn^ogm^o
 dgp pci { xqiv c| gni gi2p{gf2u 2u ¶ { uqm o kpf gp n̄zwupcm r̄vul qv.
 co kv c| go dgtk^ai c lqdd kf ndgp o gi gpi gfjgvw o ci a pcn̄i C j qiv
 p{grk gm v̄ngpi2v^o c vlcqpak ul gi2p{u^ai dgp kñ gp n̄zwupcm 2tgi vgo
 Hrgn u^o vgw c i {cnqrcv̄vcp n3/42rkunq^av c|2tv ku. jqi { c o ci {ct
 h̄i^a r̄i eum jkxvcr̄ndc cnet w̄fwpk 2u pgo cnetlc x^ancpk c ul cdcf/
 r^an^am nqen^ocv̄v0 C tg^ani lo p^a|kwo wcr̄qo tc lwwc^vu^axcn 2t|2ug
 ul gtlpv nkugdd ngt ãn xgn lwj cv gn c e2nj q|0 èC n3/42rkunqrc vgt2p ô
 ¶lc ô h̄i {grgo dg ngm xgppk c o ci {ct 2vgn k n3/42rqu^ov̄n gn tgr̄vj cw
 jgn|gv^v. l3/4 l2v 2u Ai { ngm n3/42rkunq^akpnev o gi nqput^owpwpm

j qi { qn cp wrcf qp^a i qmⁿ p^gxgr^ugn wf^a ucn kuo gtgvmmgn nⁱ ucn
 gn c l^h4p³/k pgo | gf²ngv. co gm^ggn c nⁱv²tv xcn[»] m^h f ggo dgp c n^gi /
 nⁱ4p { gddgp hqi dqrⁱ qi wpl⁰ Kv ugo o k^h rg ul gpw⁰ gpw⁰ r⁰ o wu pgo ugi v⁰
 c fqmt⁰ kpgt grⁱqi wwf^a i nⁱ ul xgu⁰ gf ggo. o gtv ctt[»] n xcp ul[»]. j qi {
 nⁱ4² r qu⁰ v⁰ n⁰ wpm hck c l^h3[»] 2x⁰ k⁰ gf dgp c l² r⁰ v² tv xcn[»] j ctedcp uk⁰ n⁰
 o cucp gn pg dwn⁰ cpcn⁰ Gi { o^a u cmer⁰ o o cn p { h⁰ cp o gi o qpf⁰ l⁰.
 j qi { c v rg o gi tgh⁰ to^a n⁰ *c l⁰ gtgf⁰ gv⁰ r⁰ v⁰ »tcu^a o qv xku⁰ cu⁰ qt⁰ v⁰ +
 tg^a ni ko p^a | kwo dcp nⁱ v⁰ c l⁰ v c l⁰ kun⁰ nⁱ v. co gm^g o² n⁰ u² i gup j c l⁰ chku.
 o qf gtp p { gr⁰ xgnp dgu⁰ 2⁰ ipk wf⁰ ». eugr⁰ gn nⁱ r⁰ gu. c l² r⁰ v m^h f gm g⁰ k⁰ g
 hgn² tv⁰ gw pgo | gf²ngv wf p^gxgp⁰ M⁰ w² i vgrp. j qi { M⁰ r⁰ d⁰ gn d⁰ gi
 gw n c l⁰ kun⁰ nⁱ w⁰ n⁰ ku² uqnev x^a tv. co kn⁰ t c l⁰ v tgo² ng. j qi { r⁰ n⁰ i o q/
 fgt⁰ p { gr⁰ xgnv d⁰ v⁰ » i pgo | gf²ngm 3⁴ 3⁰ p⁰ ngp⁰ m o cl⁰ nk dgn r⁰ o P ci { qp
 xku⁰ qp { r⁰ i qu f⁰ q⁰ i. j qi { nk e⁰ d⁰ v⁰ i gi { k⁰ f⁰ gi gp p { gr⁰ xv u c l⁰ kun⁰ r⁰ k o qf gtp
 p { gr⁰ xqmc⁰ v⁰ upcm j c w⁰ n⁰ r⁰ gu² i dgp o gi xq⁰ m² u o gi r⁰ gu⁰ p⁰ gm c o ci c
 n⁰ q⁰ t⁰ r⁰ v⁰ k⁰ M⁰ r⁰ d⁰ gn d⁰ gi nⁱ w² i vgrp⁰ An pci { gn⁰ v⁰ euk d^a v⁰ t⁰ i⁰ t⁰ n⁰ v⁰ gw
 dk qp { u⁰ i qv co kn⁰ t gn | p { k⁰ v⁰ n⁰ v⁰ c⁰ v⁰ l⁰ p⁰ m h⁰ l² tg q⁰ r⁰ k⁰ u⁰ v⁰ ku dgr⁰ /
 n⁰ m⁰ w⁰ n⁰ k⁰ c ucl^a v v⁰ 4x² p² p⁰ gm r⁰ d⁰ qp⁰ v⁰ u⁰ dc h⁰ i qw j qi { d⁰ gn o gi /
 i | | f² u⁰ v⁰ 2⁰ tx² p⁰ { tg l⁰ w⁰ cu⁰ c⁰ C dclv wrcf qp⁰ n⁰ r⁰ r⁰ gp c l⁰ c f⁰ k⁰ u⁰ t⁰ r⁰ c⁰ v⁰ k⁰.
 xci { k⁰ n⁰ i dd r⁰ g⁰ f⁰ ci » i k⁰ k⁰ l⁰ i tgp⁰ / j⁰ k⁰ p { euk⁰ n⁰ c. co gm^g c l² tx² p⁰ { dgp
 r⁰ x v⁰ 4x² p⁰ { u⁰ gm⁰ g² u c x² i t⁰ g⁰ cl⁰ v⁰ u o » f⁰ l⁰ n⁰ i 4⁰ 3⁰ w⁰ t⁰ n⁰ i pv v⁰ v⁰ qp /
 i qw⁰ J c r⁰ q⁰ r⁰ k⁰ n⁰ k⁰ r⁰ c i c p⁰ p { k⁰ c n⁰ i p { gm⁰ v⁰ r⁰ pgo r⁰ gw x⁰ q⁰ p⁰ c. gi { o gi /
 hgn⁰ A⁰ v⁰ 4x² p⁰ { dk qp { a⁰ t⁰ v⁰ u⁰ v⁰ dd j gn⁰ | g⁰ v⁰ v⁰ tgo⁰ v⁰ G v² tgp xcn[»]
 o w⁰ n⁰ i u⁰ i^a p⁰ cm o² i ku x⁰ q⁰ v⁰ xcn⁰ k o c⁰ t⁰ c⁰ f⁰ c⁰ p⁰ f⁰ » n⁰ i 4⁰ g⁰ n⁰ g⁰ o² p⁰ { g⁰ c l⁰
 3; 560k v⁰ 4x² p⁰ { wrcf qp⁰ n⁰ r⁰ r⁰ gp c M⁰ r⁰ d⁰ gn d⁰ gi / h⁰ rg tg^a ni ko p^a | kwo qv
 x⁰ gw⁰ c⁰ r⁰ c⁰ r⁰ v⁰ n⁰ co kn⁰ t c l⁰ A⁰ o ci { c⁰ t⁰ gi { u² i gu n⁰ i 4² r⁰ kun⁰ nⁱ v o gi cm⁰ q⁰ w⁰ c⁰
 C n⁰ i 4² r⁰ kun⁰ r⁰ k v⁰ 4x² p⁰ { v pgo u⁰ q⁰ n⁰ t⁰ c n⁰ i 4⁰ g⁰ v⁰ c r⁰ p { n⁰ i 4² r⁰ kun⁰ r⁰ k
 n⁰ i t⁰ f⁰ 2⁰ u tgp⁰ f⁰ g⁰ l² ug⁰ C v⁰ 4x² p⁰ { l⁰ c⁰ x⁰ c⁰ u⁰ v o gi q⁰ n⁰ i t⁰ c t^a o w⁰ v⁰. j qi { c
 n⁰ i 4² r⁰ h⁰ q⁰ n⁰ i r⁰ p { q⁰ m⁰ c⁰ v⁰ o^a t⁰ l⁰ r⁰ n⁰ 2⁰ xu⁰ | c⁰ f⁰ » v⁰ p² m⁰ n⁰ i 4⁰ k c v⁰ 4x² p⁰ { gu
 ul⁰ cd^a n⁰ q⁰ | a⁰ uv d^a t o gp⁰ u² i A⁰ p⁰ t⁰ g⁰ ul⁰ q⁰ n⁰ i r⁰ j⁰ cv j qi { c n⁰ i v⁰ d^a d^a n⁰ co ul⁰ k⁰ /
 v² p tgp⁰ f⁰ g⁰ v⁰ mmgn q⁰ r⁰ g⁰ t^a n⁰ v⁰ g⁰ l⁰ gp c v² tgp⁰ T² ul⁰ r⁰ v⁰ gup kuo gt⁰ v⁰ k c m⁰ n⁰ /
 l⁰ h⁰ f⁰ k² u j c l⁰ ck v⁰ 4⁰ gn² u⁰ gn⁰ v⁰ H⁰ { C⁰ p⁰ f⁰ t^a u n⁰ g⁰ l⁰ f⁰ go² p⁰ { g⁰ l² u² v c l⁰ gi { gu
 c⁰ r^a e⁰ c⁰ t⁰ p⁰ f⁰ gm c r⁰ t⁰ q⁰ v⁰ u⁰ pu kun⁰ i r⁰ h⁰ p⁰ p⁰ c⁰ t⁰ m⁰ k⁰ g⁰ x^a i » 2⁰ t⁰ f⁰ go g⁰ k⁰ Xcp
 dk qp { qu v⁰ 4⁰ v⁰ pg⁰ k² t⁰ f⁰ go g c n⁰ i 4⁰ gm A⁰ ndcp x⁰ t^a i | qw h⁰ nu dd r⁰ p { /
 kun⁰ nⁱ pcm k⁰ Co kn⁰ t c l⁰ q⁰ d⁰ c⁰ r⁰ p { q⁰ m c w⁰ f⁰ q⁰ a⁰ p⁰ q⁰ r^a n⁰ i^a m⁰ n⁰ g⁰ l⁰ f⁰ /
 v⁰ m w⁰ f⁰ w⁰ p⁰ c o co kn⁰ t c l⁰ 3; ; 70k n⁰ i t^a n⁰ k⁰ t⁰ g⁰ l⁰ q⁰ n⁰ i e⁰ k⁰ c⁰ r⁰ r⁰ i^a p. co gm^g p² j^a p⁰ {
 gi { g⁰ v⁰ go k² u h⁰ kun⁰ r⁰ k ul⁰ c⁰ n⁰ t⁰ o gi g⁰ p⁰ i g⁰ v⁰ c p m d⁰ g⁰ t⁰ c⁰ v⁰ n⁰ i^a u⁰ v⁰ 3; ; 8/ dcp
 o gi k⁰ p⁰ f⁰ w⁰ c l⁰ gr⁰ r⁰ p { i ko p^a | kwo k v⁰ p⁰ h⁰ n⁰ { co. c h⁰ nu dd r⁰ p { kun⁰ r⁰ k
 g⁰ l⁰ c l⁰ k⁰ f⁰ g^a r⁰ ku. 3⁰ p⁰ e⁰ n⁰ i^a k⁰ p⁰ v⁰ | o² p⁰ { gr⁰ xgu⁰ v⁰ gw c⁰ f⁰ f⁰ k⁰ k l⁰ gn⁰ p⁰ v⁰ u⁰ i² v⁰ 3; 23/
 dgp gm⁰ g⁰ l⁰ f⁰ km o n⁰ i 4² u⁰ A⁰ ngv c l⁰ gr⁰ r⁰ p { i ko p^a | kwo qm fg c h⁰ n⁰ i^a v⁰ p⁰ q⁰ u
 n⁰ i⁰ t⁰ r⁰ g⁰ l² u gm⁰ p² tg ugo wf p⁰ q⁰ to c⁰ v⁰ k⁰ v⁰ f⁰ w⁰ n⁰ i c⁰ n⁰ i w⁰ p⁰ k⁰ C

3;38/dcp tgpfg|kκ p²i{²xgu crrtc 2^rκm c p²i{²xgu i ko p^a|kwo k
 vphq|co qv0 3;3:/dcp Àtc o»fqu^m c vpwtxg0 M⁴dgp c hgu dd
 n^ap{^akuqr c n²r vngpgf kκ 3;46147/dgp Dw^rcr gv^g j^atqo xcp dgn/
 n^am fg gi{^akm ugo ^amco k= xk²ngp gi{^agvngi{ o ctfv. gl xku|qpv
^amco k0

C| Àl v⁴x²p{ *3;48< ZZKX0 v⁰ j^atqo v^r wuv v^tgo v< c n^ap{/
 i ko p^a|kwo qv c n^avp^o gp^vu n^ap{^afv^gwo qv ²u c hgu dd n^ap{^akuqr^v
 o qf gtp hqto ^adcp hq|v^gpk cnet». h kuqrck vpw^ap{qntc pgo lqi q/
 u^l» n^ap{^akuqrⁱ kwo qv0 G| w^oddk x^am^rp^a c u|qtqucdd ²v^ggo dgp xgv
 p p^gxg^ru0 C v⁴x²p{cmq» c|v tgo ²ng. jqi{ gl c v^r wu hq|cflc o c|f
 dg p²r^gu qu|vⁿclcd c n⁴2^rkuqr^v x²i| n^ap{^aqm |³o²v0 C tgo ²p{
 pgo x^aiv xcn<c c n^ap{^akuqrⁱ kwo ²rr Ài{ gnu^tx^cf v. o l^pv n⁴xg^v
 n^gp ug. c hgu dd n^ap{^akuqr0 C n^ap{^ai ko p^a|kwo ²u n^ap{^afv^gwo ²tgw^v
 u²i k d^k q|^ap^acm n^rg^u j^cvⁿc c|q^pqu xqn0 C| gi{^agvgo k
 h^gx²v^gng^p²n o gi n^rx nu^trⁱ q|^auqnev. co gn|gm c p n^pgm c w^fqo^ap{qu
 r^an^antc xcn» ³/₄ ³/₄ n^rug n^r cnetvem c^pcm kf gl²p i^av^g go n^pk c| Àl
 v⁴x²p{ o gi u|^apv^gwo C n^ap{^an⁴2^rkuqr^m pci{|^adcp u|^kv²p x²i ki/
 eul^an^am c h^an⁴2^rkuqr^m x^an^q cv^u uqt^uv. d^at c| w^onci qu o»f q/
 u^l» uqm kv pgo qnq|vcm cm^atc |cx^tv0 C x²i u tgpfg|²u kw ku c|
 3;560k n⁴2^rkuqrck v⁴x²p{tg o ctfv. co gn{ c h^a ²u n^ap{^an⁴2^r/
 kuqrⁱ v^grk^gi c| q^pqu^a v^gwo

C n⁴2^rkuqrck tghqto o cn n^re^uq^rv^dcp M^gd^gnd^gti v⁴x²pp{gn
 tgpfg|v^g c n⁴2^rkuqrck v^atn^r|²uv ku. co gn| jqu|^a k^f »c gi{^akn^g
 xqiv m^wÀr q^rkkⁿ pm n^gi n^g cp{ci qncdd vt^agv^gpn0 C| gi{^agvgo
 d³e^u2^ul^gk n^rtc. u v c o gi{^agvgo o g^gw wⁱ{cp o^at c ZZ0 u^a|cf
 j^gx^gpgu ²x^glv n n^gl f^xg o n⁴3⁴v gi{|/gi{ v^atn^r|/l^pv|gv. fg
 c| gt^gfo²p{ c| k^f n⁴k u|gtx^gl^gk l^xu^qm g^gp²tg ugo xqiv n^grⁱ/
 i^l0 C n^gi pci{qdd j^kp{ vⁿrⁱ p cdd»n u^ato c|q^w. jqi{ c dg^kc^ul^au
 c v^atl^gngm u^ao^atc pgo xqiv n⁴g^gl u^l{ c v^atk fl^rq^o^av
 o gi n^gi v^gw u|gt^gl^gk c v^atn^r| k n⁴g^gl^gw^ui gm v^rl^gu^lug p²m^an
 ku0 C| 3;46< ZZKX0 v⁰ n^rp{gi g^gp o»fqu^lqvc c| cff^ki k j^gg|v^gv0
 Gn u|³/₄ ku u|cd^an^qvc c d³e^u2^ul^gk n^rtc qm ²u c v^atn^r| m gm^al^gp^l
 v^gw gi{^awo n⁴2^uv u o gi n⁴g^gv^g. jqi{ c x^ku^arv^c l^grp^vl^g2^u/
 n^qt c hq|co qf» ki c|q^rlc gn|g^gu v^atn^r| k vⁱu^av ²u v^apw^a/
 p{ck0 C| cff^ki o gi n^gi v^gug n⁴pp{gf²p n^gl^gnv i{c^uqⁿ»²xgv ku c|
 Àl tgp^ul^gt uq^men u|ki t^add^ep x^gv^g. o l^pv c t²i g^gdk i{c^uqⁿrv0 M^an⁴
 p³/₄ i q^pf^qv h^qt^fl^qw c o l^pku|v^t c o qf gtp p{g^rck u|cn^qu l^gn^gm n^r/
 |²u²tg. cn^km n⁴Àn v⁴dd^g jqu|cdd/t³x^kg^gdd k^fg^ki m^an⁴f^k n^qn^r/
 i kwo qn^dep v⁴n^rng^ul^g gw²mp{g^rck^luo g^tv^gl^gv0

Pci{q^p l^grp^vu ²u l^ov²n^qp{ o n⁴2^uv h^gl^gv^w nk M^gd^gnd^gti

c r q n i ^a t k k u n q n i n m e n n e r e u q n e d c p 0 G | c | k u n q n e c l n g | f g w n h j i x c
 g i { k n g x q n v c r g i ² r e v g x c n > d d c n p c m ² u r g i x k ^a i | > d d c n p c n 0 C | 3 : 8 : 0 6
 v̄4x²p { o g i c m q > k c p p c m k f g l ² p c | ² t v A n g w ^m a v j q | ^a p m j q i { c
 u l g t ² p { g d d n w w ^a r k u k i ² p { r q n i ^a t k v̄ t u c f c m k t ² v g i g v h r g i c i { c /
 n q t r e k o x g m ² i o c i c u c d d u | p x q p c i f t c g o g r ² n 0 P ² r u l g t u ⁱ ² v
 d k q p { q w c . j q i { c | g u g v m v̄ a p { q o > t ² u l ² d g p n̄4 u ⁱ g m ² u h g n g l g v m
^a n f q w c m h g n r q n i ^a t k k u n q n i n e v 0 C | q t u ^a i o g i e u q p n f ^a u c g n w o ^a t
 3/4 u l g u p 772 h k ^a ² u r g ^a p { / r q n i ^a t k k u n q n e o n̄4 3/4 v j c | ^a p n d c p . c o g n f g m /
 d n c v t e p q p k d ² n g n̄4 ² u 475 / v j c i { q w o g i 0 l g m g o | c | q p d c p . j q i {
 n̄4 v ² x o A n c g l c u l ^a o 54 : / t c g o g m g f g w 0 3 ; 44 w̄ p c h g l n f ² u k t c o
 t q i c o q u p i { q t u w < 3 ; 48 / d e p o ^a t 634 r q n i ^a t k k u n q n e o n̄4 3/4 v c
 e u q n e q t u ^a i d c p 0

M r g d n d g t i v̄4x²p { g . c | 3 ; 49 < Z K 0 v g 0 g i { h g n n r q p v q u d d c p
 n k g r̄4 m g c h p v q u k p v̄ | o ² p { j g n ² v k u n q n e t g p f u l g t a p n d g p . o ^a u h g n n
 c | g f f k i k p ² n u q m e n i { c n q t r e v d d ^a v g u k v e p v g x ² v 0 C | 3 ; 480 o ^a l w u
 70 ² t k n g r v l e x c u r v k p f q n q i ^a u c g t u g p j c p i u A n { q | | c c i { c n q t r e k u l g o /
 r q p v q 0 C i { k m q u i c | f c u ^a i k x g t u g p { d g p g o ^a n j c w p m n k ² t v g r g v g p
 v̄4 o g i g m g n c c p ² r k u n q n i m c | k u o ² v n / ² u v q x ^a d d n̄4 r | / k u n q n i m o g m g w
 c r q n i ^a t k k u n q n i n p c m n̄4 v̄ p r g i g u p p c i { u l g t g r l w c f q i q | > o c i { c t
 v̄4 o g i g m ² t v g r k u l p x q p c i f t c m g o g r ² u d g p 0 G 3/4 x 3/4 L > | u g h c p p c m
 k f g l ² p o g i r t > d ^a m q | q w c h g n d d p ² r k u n q n i n m e n f g n k f g t A n . j q i { c
 x k ^a i | ^a u h g n ² v g r k j k̄ p { q | v c n 0 C p p ^a n l q d d c p h g m g f A n c E u g p i g t {
 C p v c n > n r t q r c i ^a n v r q n i ^a t k k u n q n e # E u c m c e ² m k v | ² u d g p x c n > k p i c /
 f q | ^a u c u l g t x g l g v j c v̄ t q l c v̄ p x q n c ² u c o g i h g n t g p f v c t v̄ u j k̄ p { c
 c n e f ^a n { q | v̄ m c o ² i g t u g d d h e r k k ^a i | ^a u 0 M ² u ⁱ v g r p r r 0 j q i { c |
 X 0 ² u X r 0 q u l v̄ n { q n e v c | ² r g v g n q t x c u l v q w c < 3 ; 43 44 / d g p c K X 0 q u l /
 v̄ n { d e l ^a t v 36 : 56 v p w > . c | X 0 d g 387 . c X r 0 d c ; 2 # G l g m c u l ^a o q m
 o w c v ^a m j q i { c n̄4 v h g n d d q u l v̄ n { t c p k p e u v̄4 d ² u l A n̄4 i 0 C | k r c t k
² u n g t g u n f g r o k u l c n q m c v̄ u n̄4 t f ² u ² v o ^a u x q p c n q p n g m o g i q r f c p k
 p g o c r q n i ^a t k k u n q n e h g n d d q u l v̄ n { c k x c r 0 G p p g m o g i h g n g p n q p /
 u t w̄ d e o g i c o k p k u l v t c o o q v o ^a t p ² i { q u l v̄ n { q u r q n i ^a t k k u n q n e A l
 e ² m k v | ² u ² v c c n̄4 ² r h q m ^a u l c n k u n q n i n t e . x c i { g i { g p g u p c i c | f c u ^a i k
 r ^a n ^a n t e x c n > g n n̄4 u l v̄ u 0 C n̄4 ² r h q m ^a u l c n k u n q n i v c r q n i ^a t k k u n q n i w n
 c h g l n f ² u g m A v̄ p f g w g < g l v x k u l c e u l p ^a p k v̄4 d ² p g o r g j g v u p g o k u
 n f ^a p c v q u 0 U c v g t o ² u l g v g u h g l n f ² u o k p v i { o c i ^a w n o g i u l A p v g w c
 j c v q u l v̄ n v . c o g n f g v g i { ² d n̄4 p v u g o r g j g v g c p ² i { g u v c i q | > f ^a u ^a
 o c i { c t k u n q n e t g p f u l g t d g u l g t x g u p d g k n g u l v g p k 0 ä G u l g t k p o o k p f c v̄4 /
 v̄ p g k h g l n f ² u n q o q n ² u v̄4 d u l 3/4 3/4 v p v n̄4 i c . o k p f c o c i { c t v̄ t /
 u c f c n q o x g n f ² u k ² u i c | f c u ^a i k k i ² p { g k o k p f r g f k i c j g n f g u f k f c m k e k
 h g n q i ^a u c t t e w e n j q i { c r q n i ^a t k k u n q n e u g o j c v q u l v̄ n { A * o k p v c |

3: 8: 0 x0 o gi u|cdlc+ ugo p{qreql v n(À *o kpv gi { rgi Àcdd k^ap{|cv
n^hk^aplc+ pg rgi {gp. jcpgo o ctcflqp o gi o ck²ⁿ p²ⁱ{qu v n(qu ccm^l
l^dcp. co gn{dgp xcn>dcp p²ru|gt x² x^anv u hqpqu v tucfcm k u|Àm
u²ⁱrgvngmzfi ¶xg qn| u²rgp hgnk^ai|qw0

Pci { x^amq|^{auv} lgrgpvgw c lcxcurv c rqi^atk kunqrck hgn^hi {grgv/
dgp ku0 Gfki c rqi^atk kunqr h^h4/4w c p²r kunqrck hgn^hi {grgvk jcv>uⁱ
i{cniqtnc c| gmgp t|²u0 Mrgdgnudgti hgnj ccm c|^auv ner t^a. jqi { c
n^htf²uv gi {gn tg tgpfggvk Àqpp u|cd^an|q|c0 ¶i { ccmwv nk c| gi {²d/
n^hpv t³4k²rgv rqi^atk kunqrck h ki c|icv>k tgpfulgt. co gn{pgm j^an/
|cv^v Mrgdgnudgti wrcf qpnr rrgp n^hu dd cnetc n^her ¶vgp0 Tgpf g|vg
c lcxcurv c n^h4 u²ⁱgm j q|^al^atwf^uv ku. co gpp{kdgp c p²r kunqr^hnp^an
o^at n^herwv tgpfulgt cpc>i^hl^atc c n^h4 u²ⁱgm n^h4grugm xqncm c|
kunqr^hm n^hvgu^h2 u^{2j}g|²u hppvct^vu^{2j}q| lgrgp^vngp{ o²t^vndgp j q|^a/
l^atwp0

Vcn^hp c u|qtqudd²tvggo dgp xgw vcpvtxk²u u|gtxg|gvk tghqto /
p^an ku hqpqucdd xqiv c v^h4x²p{pgm c| c tgpfgmg|²ug. co gn{ u|gtkpv
c|qm c| 7222 n^hrgm^u^ao p^an pci {qdd rcmqu^hi À n^h4 u²ⁱgm co gn{gnldgp
rqi^atk kunqr o²ⁱ pgo o n^h4 3/4w. n^h4grugm rqu|pgm g|v c| kunqrchlv
hgn^hn^hcpk0 C| ki c|. jqi { g|v c tgpfgmg|²uv o^at c| 3: 8: 0[~] v^h4x²p{ ku
vtcm c|v. c x²ⁱtgjcl^vu c|qpdc pgo wfv c v^h4x²p{j q|» u^ap/
f²n^hv o gi xcn>u^hcpk0 C n^h4 u²ⁱgm pci {l^adcp wi {cpc|v c v^ho qi cv^uv
ner l^am c rqi^atk kunqr^hnp^an ku. o kpv c p²r kunqr^hnp^an0 U g vt^hrgv p ku
c o kpv|vt o gi cmqdc c| Qtu^ai qu Rqi^atk Kunqrck | r^huk Cnr qv0
Gxk^a n^huqj n^hu²v n^hu dd c n^h4gvng| ndgp hqi rnc 3/4u|g< eP go
gfi. jqi { c o xgn^u2i pgm c| qtu^ai dcp eucm gi {gu nko ci cum> i>e/
rqpvc rgi {gpgm= u|Àm²ⁱ xcp ettc ku. jqi { c jgn{k xlu|qp{qmpcm
o gi hgn gp c mwm^aru kunqrchlv m c| qtu^ai gi²u| vt^hrgv^v gi {gp/
rgvugp j^an>|^am dg0 C rqi^atk kunqr c rgi cmem cudd kunqrchlv
cttc. jqi { c l^at^auk u|²nj gn{gngv ku o xgn f²uk n^h4 rqpvm^h hgn^hu|g
n0 C n^h4²r kunqr^hm 0 0 0 kpn^hdd v^h4x²p{jcv>uⁱk x^atquqndc²u o gi {gk
u|²nj gn{gndg xcn> 00 J c g|v c i qpf qrvv n^h4gvng| gvugp ngtgu|v^h
xlu|Àm cniqt p²ⁱ{hclv. p²ⁱ{hqmÀ n^h4 o xgn f²uk i>er qpv ccmwv
Oci {ctqtu^ai qp< Dwf crguv c| gi²u| qtu^ai qv 3/4u|ghqi» n^h4 rqp v.
c| gi {ggo k x^atquqm o kpv c o ci cu mwm^apcm c| qtu^ai vt^hrgv^vp
vtxulgt gp u²vu|vq w n^h4 rqpvc= c v^h4x²p{jcv>uⁱk x^atquqm²u
o gi {gk u|²nj gn{gm o kpv n^h4²r kunqrck x^atquqm²u x²ⁱÀn c l^at^auk u|²m
jgn{gm cjqn o kpf gpAw rqi^atk kunqr^hm rqu|pgn0 C i{cniqtvdcp
o gi o ctcfv c v^h4x²p{v n o gi^ancr ¶qw 7222 rcmqu^hi À nkugdd x^atquqm
pcm rqi^atk kunqr^hxcn xcn> gn^hv^uc o gngw0 C v^h4x²p{ dgp{Àv^ucnqt
; 5 qn{cp n^h4 u²ⁱ xqiv c| qtu^ai dcp. co gn{gnldgp g|gp c| cnr qp À

rqi^atk kunqif^v ngnw ul gtxgl pk0 C o kplu vgt gi {gn tg :2 n³4 u²i gv x^a/
 rcu|vqwk u 3/4 o gn lgrgpvvgw c| qtu|^ai pcm jqi { c x^atquqm²u hrcxcm
 xcn>uⁱicn o gi quvtqo qif^am v rqi^atk kunqif^vn²v0 Gi {o^au w³p crenw/
 vcm c| kunqif^m go gm²fv²gm c| À²r³Ävgn0 Mrgdndgti c tqj co qu
 hgl n f²upgm c|²tv ku 3/4 Äv o gtv gi {gn tg c o²i jk²p{|}» p{qreql v²n²qu
 p²r k² m²rc n²qo qn² r>v²u²v v²nc o gi gddgp c| kunqrchldcp0 ÈJ qi {j c
 rgi c²dd c| 3/4 gl gt r²ncup^an v²dd r²mgv ul^ao²n² n³4 u²i gndgp 0 0 0
 o kpf gp Äw o gi wflwn ul gtxgl pk c rqi^atk kunqif^v cmaqt rgi/
 c²dd gl gngp c jgn²gngp o>fv p{Äwpm cttc. jqi { c o ci {ct
 p²r p²i { gngok qu²v²n² w³p p²i { rqi^atk qu²v²n²v x²i gl xg wi {cp/
 c| qp o xgn²i jgl lwuqp. co gn{j gl Cwu| v²k²dcp²u M²o gxtu|^ai/
 dcp o kpf gpnk grw0 Eucm c|²tv o gtv x^atpk c p{qreql v²n²qu p²r/
 kunqif^{tc} xqpcwq|}» v²4x²p{lxcurv dgp{Äv²u²xcn o gtv rgi c²dd
 c pci {qdd jgn²u²i gndgp^a vo gpgvrgi c rqi^atk kunqr² xcn o gpp{kg
 r>vqnc c jk²p{v0

C o kplu vgt pci {qp hgrj^adqtqfw c| qp. jqi { cncfvcn c²nk o²i
 c rqi^atk kunqif^v ku c|²tvgr²ku²ik rtqrvtk²wu p³4gr²u²tg cmcm cu
 kp²v|o²p{pgm o k²p u²lgw²n0 ÈC| k²gp go dgtgm p{kk^ap c|v »jclvcp^am
 jqi { c o ci {ct p²r^anc²pqu mwn²tu| kp²v²c nkufg²»x»m cfl^am o gi.
 nk²lv hgn ngugt gp0 C rqi^atk kunqr² pgo n³4²r²kunqr² cddep c|²tvgrgo/
 dgp. jqi { gi {gpgupp c h kunqif^m hgr² xgl gvp²g0 P³4gpf²nglpgm vnk²p/
 v²n²gu t²u²g n³4 xgv²pÄn c ngtgu²rgvdg r²r u gppgm o gi hrgn ul gngok
 Ätxcn>v x^at c| kunqif^v0 f²r²cwcp jgn{| gvgm v²lc. jc gi { x^atqu/
 dcp n³4²r²kunqr² xcp. fg rqi^atk kunqr² pk²eu0 C rqi^atk kunqif^mmen
 n²reuc²v²dcp ku nk²Än³4 km dgn rg c x^atqur qrk²mw< cttc ul^ao² v². jqi {
 c nkugdd x^atqundcp c rqi^atk kunqif^m v²p^atk n²tc o clf lgrgp²v²ngp{gp
 i {ctcr²v²pk h²ilc c n³4²u²ik h lgi{| d n c| qtxqud>n c i{|}»i|ul gt²u| d n
 c rgn²u| d n c| gi {/gi { Äi {x²f d n^am eugn²n²u|^ao Ä kp²gmki gpe²v0
 ÈC rqi^atk kunqr² xcn>uⁱicn c| c| gu n³4. co gn| c p²r²gu hrcxv c o ci c
 eugpf gu o v²n²l^axcn hrgo gm²fv²pkugi v²kc nk²x^atquqm²u| v²pxqpc²tc0

Gi gm w³p v²to²u²gv². jqi { c rgi pci {qdd²tfgm²u²ugn n²l²tv²
 h rgi c| Ä rqi^atk kunqif^m dgp²r²gug²u²v0 C hgl n f²u vgo r>lc gi {gu
 jgn²gngp vÄn²i qucp i {qtupcm dk qp{w< p²j^ap{ Äi kunqr² gnqtxcf v0
 Fg gl gm jgn²dg Äcm²u Äcm nrgvng| vgn0 C| kunqrchcl²rgvtglg^anc/
 n²dcp v²4gv²ppgmdk²qp{w0

O gi tgh²to^anc Mrgdndgti. o²i rgl²ki li gp o²n²tgj cwcp. c rqn/
 i^atk kunqr² v²p^atn²r|²uv ku0 Pci { x²ko^ap{pcm v²qvc. jqi { gl v
 nkgr²i v o>fv qp ukngtÄv vgv c² jql pk0 ÈJ^atqo²xi v²qvw o² v² gl v
 ngtgu| vÄn rjgvw xkppk ô v²lc w>nci pgo o kpf gp gr²i v²gn p²mÄu0
 C r²p{gi c n³4gvng| ndgp h²i rj cw> 3/4u| g0

C r q n i ^at k k u n q r c k v p ^at n r | ²u v 3; 4: / k i c h r g n g l g k k p v | o ²p { g m o g n g w ^am o k t ²u t n c d w f c r g u k R g f c i » i k w o ²u c l G t | u ²d g v P k u n q r c r ^aw ^am g n o C n i v ^am o k k p v | o ²p { c x k f i j ^ad q t A x ²i ²p. 3; 3: / d e p h / k u n q r c k t c p i q v n e r q w o W i { c p e m n u t c l c f f k i v c p f } » k e f o o g n o n i ⁴r q n i ^at k k u n q r c k v c p g t m g r p { g t v m c e v c p ^at i e f o ²v o C o c h r c f c v q m n i ⁴A n c o g n g m o k p f g p v c p ^at n r | ²u d g p ³/ 4 u l g h q p » f p c m c j k x c v u i { c n u t i / u ²t c g n n i u l f v u l q t q u c d d ²t v r g o d g p x g w u l c m n r | ²u d g p ²u c i { c n u t / r v k f k c m k n e k n k n r | ²u d g p o k p f n i v h k u n q r c g n u t c p i A v p { A v q w = c l g n ⁴ n g n v n i u d d k ²r e v ^a n ^a l w n t c n k v p g p n i u l f v g w ²m g n o C w f q / o ^ap { q u o w p n i d c x c n » d g x g l g v ²u v g t ²p c l q p d e p. r i c r i d d k u c d d e p c l ²t v r g o d g p. c j q i { c p g l v c l g i { g v o g m d ³ / 4 e u ² u l g k n e t c k h e n q i l ^am ²u i { c n u t q n i ^am o ^at e u c m c l ²t v u g o v ⁴ / 4 v p j g v g w u q m o g t v c l g o f f g w h k u n q r i m c o g i h r g n u l g t x g l g v j k ²p { c o k w g l v c t ²u l v m A n p ³ / 4 u d / d g p p g o k u v e t v w ^am h r c f c w n p c n o f n e i d d e p p { f v n i t f ²u r g i g v j q i { o g m n u t c o ²t v ²n d g p x c p u l A m ²i A m c h r g i i { c n u t r e k l g m g i k u o g t g / v g n v n i ⁴x g f v r q n i ^at k k u n q r c v c p g t k p g m u l q t q u c d d ²t v r g o d g p x g w w f q o ^ap { q u m k n i r | ²u t g o D k q p { q u j q i { c r q n i ^at k k u n q r c k v c p ^at k r ^a n c n k v p v j g w ²i g k n i ⁴A n c t ^ap { r i n g x g u g p n i t v g m t ²u l v c u l q t q u c d d ²t v r g o d g p x g w w f q o ^ap { o x g r i u d n u g l g m k u p c i { q d d t ²u l v q n { c p q m x q n c m c n k n p g m o » f l w m x q n v c l C r r q p { k n u i n i k w o k v x ^a d d k v c p w / o ^ap { q m u q t ^ap w » r i c l g i { g v o k w f q o ^ap { q u u l g r g o o g n o g i k u o g t / n g f p k A n o V e r i p g l c n i ⁴A n ²p { x q n v g i { k m q n e c p p c m j q i { c r q n i ^at k k u n q r c k v c p ^at u i o ^at t ²i g d d g p u l q t i c m c l p k n g l f v g c v c p ^at n r | ²u p g m g i ²u l d g p x c i { t ²u l d g p c l g i { g v o g m d ³ / 4 e u ² u l g k n e t c k t c x c n » ^aw g / t g r i u ² o C p p c m c o ²n { t g i c w » ^au l g t x g l ²u p g m c o g n l 3; 4: / d e p v ⁴ / 4 v p v. p g o w q n » u q t d e p c r q n i ^at k k u n q r c v c p ^at u i ^ap c m g l c v ⁴ / 4 g n x ² u g x q n v c l g r k p f } » l e o U M r g d g n u d g t i. c w f q o ^ap { r q r k s k m w u ²u x ^at q u r q r k s k m w u. c n k c n k u g d d x ^at q u q n e v. p c i { q d d h e r k c n e v g i { ²d n i p v k u o o k p v n i v w m o o c i c u c d d ²t v g m k u ²i k u l p x q p e r v n i r x l u g n x g l g v t ²v i i g n u l g t g w g x q r p c g n i v k u g v n i k p v g d g p u l ^ao f v u d c x g w g c r q n i ^at k k u n q / i m v c p g t k v k u. n i u l u ²i i g n g r i d g o g p v g l g p c r q p q p / c r q n i ^at k k u n q r c k v c p ^at u i v ⁴ / 4 g n x ² u g l p g n o

C n i t f ²u v l » n ^a v i q p f i r c w » r i k u v i t » ^a n i u r q p p c m o k p u f i j g v c l c v ⁴ / 4 g n x ²u. c o g n l c r q n i ^at k k u n q r c k v c p ^at n r | ²u v u l k p v g v r l g u g i ² / u l ²d g p c l g i { g v o g t g n i x ^a p v c x q r p c d f l p l o C v g t x h r x g v k x c n » u l f p r g i o c i w m u g o x q n c m w u l v ³ d e p c l | c n j q i { c l g i { g v o g p g o c f j c v o ^a u v o k p v c o k c n i p { g i g < c w f q o ^ap { q u o w p n i d c x c n » d g x g l g v ²u v. c o k u g i q i { c p u g o c l q p q u f i j c w » v r i g u g p c v c p ^at n r | ²u u g n d ^at c p p c m g i { k m h i p v q u t ²u l g r g i g n o k i o g t g v u. j q i { c d ³ / 4 e u ² u l g k n e t q m c n i ⁴ / 2 r / k u n q r c k v c p ^at n r | ²u v u g o x ^a m e n j c w ^am v r l g u g i ²u l ²d g p. c o k p g m n i v

u²i vgrgp dġ qp{[¶]nc. j qi { o gngw^{Am} o kpf gp^{Aw} n^{Am}p vcp^atn^r|
 kp^v|gvgv ²u i {cniqtⁿkunq^rv ^an[¶]qvc^m hgr⁰ C| gi {gvo k nctqm ²u n^{Am}r/
 kunq^rck vcp^atn^r| m ³ul go n^{Am}2^v ō o kpv r^wwm ō ²r rgp Mrgdgn/
 dgti Āl v^{Am}x²p {g u cd^a n[¶]q| v⁰ C r qnⁱ ^atk kunq^rck vcp^atn^r| ²up²n ku eucm
 xc^o k j cuqpn[»] dgtgpf gl ngf²ut n ngj gvgw u[»]. vgt^o ²u g^ul gt rgi c
 xku qp{qnp^{cm} o gi hgrgn u^{Am}r qpvg^ru v^uu^r0 M^t r^w xqpc w {cpku
 c| Āl^a u^l gtxg^l ²u gn ner euqr^vdep o gi hgrgf ng| pk c| qnt[»]n c nk^v p j c/
 i {qo^a p{qnt[»]n co gn{gngv c r qnⁱ ^atk kunq^rck vcp^atn^r| ²u gn | h²n ²x/
 u^l ^a| cfc o gi vgtgo vgw⁰ G| gnt n rgo qpf cpk gi {²tvgm r^w xqpc c
 rgi qmcrpcdd gt r c| ctn^uu^r0 O^at r gfk c vgr^lgu gi {gvo k n^r/ |
²u. u j c gi {^anc^rp nk^lj gv pgm dġ qp{wⁿ pci {l^a dcp gl v lgrgpvgw
 xqpc⁰

C| ^au^l gtxg^l ²u o kpf gl gnp^{gm} c u^l go r qpvp^{ncm} o gu^l go gp hⁱ {g/
 rgo dg x² vgr^xgn c rgi [»]xcv^qudd n^{Am}4^{Am}gn^lkp^v ugn v^{Am}4^v p⁰ C o k^lu^l vgt
 c n^rv ^anc^o k h kunq^rv gi {g^ul^xg o kpv gi {gvrp ^anc^o k r qnⁱ ^atk kunq^rck
 vcp^atn^r| h kunq^rv U gi gf tg j gn{gl v[»] ^av⁰ G| gn c| kp^v|ngf²u gn pgo/
 eucm U gi gf gv cnetv gi { xk^ai[»] h kunq^rxen i {ctcr[¶]cpk j cpgo
 gi {²d. o gu^l gddtgp²| e²qnev ku u^l qnⁱ ^an⁰ C pci {qddt²u^l v nku xk²nk
 x^atqundcp. gvgv^{gi} pci {qdd h^rkcndcp u^l qnⁱ ^an[»] r qnⁱ ^atk kunq^rck vcp^a/
 tqm vcpw^o ^ap{k k^l gl^{Am}v gl gpv^{Am} pgo Dwf cr gvgp. j cpgo c| gi {kn
 xk²nk x^atqundcp v^{Am}4^{Am}j gw²m u [¶]{ ngx²udd² xqiv cm^owm n^{Am}kgi
 gk^l gi gpgf pk cw[»]n c n^{Am}4^{Am}p {gl gw n co gn{dg ngv n^ru ddk j kcv^uwm
 c| gvgv^{gm} v^{Am}4^{Am}p {qo [»] t²u^l ²dgp u^l [»]n[¶]qvc⁰ Cp{ci k u^l go r qp^v[»]n ku pci {qp
 Āf x³upgm dġ qp{w^w c| ^av^lgpf gl ²u[<] c| cff^l k n^rv h kunq^r j gn{gw
 c| ^anc^o eucm gi {gv vctv^w hpp u g| c| gi { l[»]xen ngxug^{dd}g ngt^{Am}.
 o kpv c| gn w c ngw n^{Am}4^{Am} Ān d^ato gn{kn⁰ C hgr^l cdcf w^w n^{Am}4^{Am}u²i xg²uk
 v² vgrngv o^au^w ngj gvgw hgr^l cu^l p^apk gn^u uqt^{dep} c| gi {gvo gngp.
 Fgdtgep^{dd} ²u U gi gf gp⁰ C hgr^l cdcf w^w dwf cr g^uck ²r Āngv^{gm} n^{Am}4^{Am} Ān
 c Rgf ci [»]i kwo t²i k qw qp^adc n^{Am}4^{Am}4^{Am}j gvgw c| Āl Vgvp^{gx}g^ruk H/
 kunq^r0

C| ^au^l gtxg^l ²u c rgi pci {qdd i qpf^{fc}n tn^{Am}4^{Am} ³av c| qp. j qi { c xqiv
 dwf cr g^uck h kunq^rm t²i k dgx^anv j ci {qo^a p{ckd[»]n ugo o k ug o gplgp
 xg^l gp^l dg. u v. co gpp{ktg c n^{Am}4^{Am} ²p{gm gl v u^l Ām²i gu²v²m ²u
 o gi gpi gf^vm c| Āl^a u^l gtxg^l gw kp^v| o² p{ w^fcv^qcp c t²i k p{q/
 o qn[¶] r t[»]d^anv vx^a ddh^lgn f pl⁰ O gi o ctf^vm c t²i k u^l cneqr^{qt}v^{qm}
 o gi o ctf^vm c vcpw^o ^ap{k tgp^l dgp o kpf c| qm c n^{Am}4^{Am}gv²p{gm
 co gn{gm c u^l cnh kunq^r n[¶]p p²m^{Am}4^{Am}j gvgv^{gp} u^l ki qt^{Add} hⁱ {gr^o k ²u
 vcpw^o ^ap{k gngp t^l ²uv xqncm j kcv^x dġ v^ul[¶]cpk o gi o ctf^vm u v
 c r qnⁱ ^atk kunq^r i {cniqt^rck lgr^{gi} ²pgm o gi hgrgn gp vx^a ddh^lgn f v^{gm} c|
 Ā⁰ p⁰ n^{Am}gi ²u^l [¶] *i {cniqt^rck^v u^l cmm^{Am}4^{Am} ³am o gi o ctf^v ²u vx^a ddh^lgn f ³av

c f k c m k n e k n k n r | 2 u v u | q n i a n » i { c n q t n » r q n i a t k k u n q n e 0 M A n p t a
 n g m o w c v p q o c n k g i 2 u | f v u | c m n 3 4 3 n h p v q u u i a t c 0 G | w i { c p k u c |
 c r q p v . c o g n { p 2 n c r q n i a t k k u n q n e k v p a t n r | 2 u c n 3 4 2 r k u n q n e k » n c
 n g i 2 n g u d d g p g m e p { c t q f k m u g i { A v e n g l o w e v d c c r q n i a t k k u n q n e k
 v p a t n r | 2 u p g m i { c n q t r e v k d g a n f q v u i a v 0 C n g i 3 4 d d r q n i a t k k u n q n e
 r a t j w | c o q u q u v n q m j k p i a d e p e u c m p 2 i { q u v n f e n t g p f g m g l k n 0
 G d d n n 3 4 g v n g l k m j q i { n 2 v g m 2 n g k u | c m e n p g o w f p a v c p g t k v
 o g i h e r g n o v p n e n 3 4 d g p c | g n f v » t c u l a o o c n h q i r e m q | v c p k 0 C i { c /
 n q t r e v k v t i { c m x k u | q p v t g p f u | g t k p v p g o x g u l k m k i 2 p { d g g i { / g i {
 v p a t p c m v r i g u » t c u l a o a v 0 K k g p v t i { c m r i 0 c r q n i a t k r g a p { k u n q n i m i
 d e p c p k n i k o w p n e . c l 2 p g m c v g u p g x g r u . c h k A r q n i a t k k u n q n i m d e p
 c u n 3 4 f . c v g u p g x g r u . c l 2 p g m c o g l i c f u i v c p . c | k r c t k l u o g /
 t g v n 0 C l g n 3 4 n g p g m c | g m 2 n g k u | c n q m o g n r c | w » d d k e n d » n n g m
 c | g i { k n g v n k g i 2 u | f v u | c m n 3 4 n p v x a r e u | v c p k w m o g t v e u c m g l A v p
 n g i g v i g u . h n g i c n k u g d d r q n i a t k k u n q n i m d e p . c u | c m u | g t v c p v t i { /
 h e r q u | v u v c v e p g t m n 3 4 3 v d k v u f c p k 0 C p 2 i { 2 x t g h e r g o g n v v c p w i
 o a p { k k f n g i g v x 2 v g w c | c p { c i g i 2 u | u i g u g d d g n q u | v u v 2 u c
 f k c m k n e k n k n r | 2 u u | p x q p e n p e m v x a d d k g o g r u v 0

G j j g l c t 2 i k c r r j q l . x c i { c t 2 i k c r r q p v x a d d h e l n f 3 4 v t 2 u | g n i
 j g l l a t w w c p e i { A l f v u c c | g i { g v o k v c p w o a p { 0 C | a u | g t x g l 2 u
 g l g p c r q p v q p k u c n g i p e i { q d d » x c v u u i i c n l a t v g n c m n q t . o k f p c
 w f q o a p { q u u r g e k n k a n d i u c l a v u k i 2 p { g k v u | g o g n w v c t x c c |
 g i { g v o k n q r g t a e l o v e u c m c | g i { k m v p a t n r | k u | c n t c x c i { 2 r r g p
 e u c m c u | c m v t i { p e m 3 4 a m w f q o a p { q u f k e k n p v c m q » t 2 u | 2 t g
 v g w n 3 4 g r g l x 2 0 G | c i { c n q t r e v d e p c p p { k v l g r g p v . j q i { c l g n 3 4 n g m
 j v g p n k p v 6 6 / 3 2 » t a v j e m i c v p e m c | g i { g v o g p 0 C j g n { g v g x k i i q e p
 o w e v d c U | g t x g l g k U | c d a n | c v k f g x q p e v n q l » r q p v c < e C h k u n q n e
 j e m i c w k c v p a t n r | v c p w o a p { k t g p f l 2 d g p n k u | e d q w g n c f a u q n q p
 n f k A n x a r e u | v q v u | c n e u r q t v l w m g i { k m u | c m n 3 4 2 d n k n g v n g i c p p e m
 g i { k m u | c m v t i { a d » n c o 0 n k 0 H e t g p e L u | g h V v f q o a p { g i { g v o d 3 4 /
 e u t u | g v . p { g n x / 2 u v 3 4 v p g w w f q o a p { k k n g v n g i o g p p { k u i v c p / v t o 2 /
 u | g w w f q o a p { k n e t a p k u n 3 4 g r u g m g n c f a u v j e m i c v p k u g e 2 n d » n c | g i { g /
 v o t g t g p f n f k A r k j e m i c w n w n d e k t c v n q l p k 0 C | g i { g v o g p j e m i c v c p f »
 g n c f a u q n e v c h k u n q n e k v c p w o a p { q m g i 2 u | 2 v n g i h e n d d h q n q p k a p { f v
 k i c i c w v p a e u l g n 3 4 k n 0 C | a u | g t x g l 2 u v c p w o a p { k u | g o r q p v d » n k u
 p e i { q p h i { g r o t g o 2 n » g t g f o 2 p { g n g v j q l q w 0 O k p f g p v 3 4 u | g x 2 x g
 c | a t g p f g l 2 u . c o g n { g v x 2 i A n k u c o l p k u | v g t p e i { u | f k » u i a i c . n e p n e f a u v
 p g o k u o g t e 2 n w f c v q u i a i c v g w n g i g v x 2 . a n e n i d e p u | g t g p e u 2 u p g m
 d k q p { w n 0 C t 2 i k h e r n g l g k r q n i a t k k u n q n e k v p a t n r | m n 3 4 A n e u c m c
 d w f e r g u k c p i q m k u u | q p { q m h k u n q n i l e o c t e f v o g i . c o g n { c d w f c /

rguk d³eu²u|gk netten r²rgw n²qr²gt^ael²tc⁰ C v²p^atn²r|²u Āl tgpflg
g|gp c h kunq²p ku v²rigup c|^amco k n²kgv²p{gnpgm o gi hgnn gp
c²rcmw u p³kgp²ngk² r²rĀi{. o kpv c u|gi gfk h kunq²k c| Qtu^ai qu
Rq²n^atk K²unq²ck Vcp^atx²u^an² Dk²qwa²i gn w u|gtg|jgkm o gi v²p^atk
fkr²mo^alw²v⁰

H²i n²em²q|qw M²gdg²ud²gi c n²4²r²h²q²n² Ā i c|f²c²u²i k u|c²n²q²me²v²u
n²7²tf²u²x²gn ku. h r²gi c n²4²r²h²q²n² Ā o g| i c|f²c²u²i k u|c²n²q²me²v²u²c²ri⁰
C jgn|gv Āi{ c²rcmw. jqi{ c h²nu n²gtg²ung²f²g²ro k kunq²m co gn{gn² n
c| gi²u| qtu^ai v²t²Ā²gv²p g²ri g²p o gpp{k²i^a m²v tgpfg²m²l²utg. ô
v²ri p x²co k²gn v²dd ku. o kpv co gpp{k gi{ cit^at/qtu^ai d²cp h²gn²v
r²pĀn u|Ā²m²i gu r²gw x²qpc ô pgo qn²l²cm m²Ā²p³ug²dd i q²p²q²0 C n²gv²/
v²ci q|>f^aut^c 2^u c o w²nc²f²n²w²p²q²mc x²c² tgpfg²m²l²u o g²ngw k²f/
x²qpc²m²q|» h²i{g²ro²pgm r²gi h²q²v²qu²dd l²gr² c| 3;49/dgp n²cf²qw Āl v²p/
v²tx. co gn{pgm gn o w²ri²rc²vk o²i c| 3;46470k v²p²x²i p{Ā²pc²m
x²ku²c⁰ C n²4²r²h²q²n² Ā²pc²m v²gn²p²j²gv k²ctk u|c²n²kun²q² 2^u h²nu k²ctk²kun²q².
v²q^add^a c p /k²ctk²kun²q² c²m²qt pgo v²tv²l²cm c m²w²u²v²te^aj²q²0 C
n²4²r²h²q²n² Ā o g| i c|f²c²u²i k u|c²n²q²me²v²u^an m²Ā²p²ri g²up c²rcmw c jgn/
|gv co gpp{k²d²p pgo u²q²mc²n c x²k²i²j²a²d²qt² Ā n²k²v²4²ug gn w 3;34/dgp.
c x²cm²u² 2^u n²4²q²me²v²u^ai{k o k²pl²v²tk²wo c| q²t²q²u^a|k r²q²n^atk kunq²v
j²2²q²u²v²n²{ Ā i c|f²c²u²i k r²q²n^atk kunq²x^a n²l²f²v² h²l²h²u²v²p²0 C n²4²d²g²l²v²
x²k²i²j²a²d²qt² Ā vi{cp o gi c²me²l²v²qc c v²ri²gu n²ic²rc²m²w²uv fg o²i ku o gi/
k²pf²w² c| c h²q²n{co cv co gn{ x²i Ā²n ku g²rk²g²g²w c h²nu o g| i c|f²c²u²i k
kunq² o gi v²t²go v²2²j²g²0 C| c²rc²g²x²gm c| Āl kunq²tc x²qpc²v²u|»ri eucm
rcu²cp v²ku v²|»f²vc²0 C o gi x²c²u²v²u o^at M²gdg²ud²gi o k²pl²v²tv²2²pgm
k²f²g²l²tg g²ugw. c²nk c r²gi p²ci{q²dd u|gt²g²v²gn net²q²nc h²gn c| Āl kunq²
Āi{²v⁰ C| 3²u²l²g²q²o²r²u u|gt²kv² pgo eucm r²q²rk²nk² u|gt²g²pe²v²g²pu²i. j²c/
pgo r²2²nf^av²p i c|f²c²u²i k n²ev²u²l²»hc ku x²q²w co gn{ o²ci c²ri v²go g²v²
c pgo|gv t²i g²ddk l²»r²v²0 C n²4²p{q²o q²td»n eucm Āi{ go g²m²f²j²gv²pm
nk j²c c o²ci{ct o w²ne o k²pf²gp x²qpc²mp. fg h r²gi c o g| i c|f²c²u²i d²ep.
c²j²q²n o²i q²n{cp p²ci{q²m c n²ic²np^a|c²v²ep r²gi v²i gm u|c²ml²gt dd u
g²ppgm n²4²kg²v²ng²v²d²p v²to²ng²p{g²dd. l²3²kg²f²g²o g²l dd r²gu²0 P²ci{q²p
v²gu²l²gw p²gnk c| ku j²qi{ c| Āl kunq² g²nu u²q²d²cp pgo c i c|f²c²u²i k
h kunq²ntc c²nc²vc p³kgp²ng²kv gn n²u²l²epk j²cpgo c n²ik²l²v²q²nu
qu²v²n² o x²gm²i²v n²4²p²vc go g²pl²0 Fg w²fc. j²qi{ c v²ri²gu n²h²gn/
f²2²uj²g² c pgo|gk n²4²h²gn²i²u c²rc²qu o gi x^amq²u^aut^c r²gu² u|Ā²m²i.
g²2²tv c i{qtu h²gn f²2²u o²i . c p²ci{ q²r²ko k²vc ugo tgo²ng²0 l²ng²o|
f²q²m²o g²pwo g v²gn²p²v²d²p gi{k²m p{k²rc²v²u|cv< ĒK²c|. j²qi{ i c|f²c/
u²i k u|c²n²q²me²v²u²pm tgp²u|gt²pgm n²4²r²v²ug g²ug²p c u|c²n²kun²q²m^ancn
n²4²x²g²v²g²w i c|f²c²u²i k n²w²Ā^atc v²o²cu²l²q²xc n²4²p{g²dd r²gu² c r²v²tv
x²c² m²Ā²f²g²ro. fg eucm c²ppcm u^ao^atc. c²nk²pgm x²ep r²gm²k g²l²g²l²v²c

mĀ f gno gv hgxgppk c vto gn 2ngvdg nĭ4 xgvvĀn dgrgo gppk c vgt/
 o grfudgp ul go 2nf gup t2ul xgppk c tg^a rku nqenĭ|cvqnev xkugpk ukngt/
 vrgpu² i gm gug² p gi { o^a u x^a ncmq¹ a uv u v o ci^a v c | 2ngvĀ Ātcngĭ/
 fgpĭ0 C nĭ4 hgrhqi^a upcm g| v c x^a nq¹ a u^a v j k f g p k ô gl pgo | gypxgn
 hgrcfvĭ O l p j c o gi 2tgĭ vġ xqrc. j qi { c hgn o gl i c | f c u¹ i k k u n q ĩ m
 co gnĭ gnd n 3; 48/dcp o^a t 3/4 o nĭ4 3/4 v c | qtu^a idcp. 2rrgp c nĭ4/
 hgrhqi^a u vġ gvgvpu² i k p{qo cv² ne nĭ4 gvngĭ v dgp pgo gi { nĭ4 p{gp
 2tkm gn c nk| 3/4 v e² n< c o gi hgrn o xgnv² i i gn tgp f gmĭ | kĭ Ā r ĩ
 pcm c hĭ4 f j 3/4. c i { cmqrc v o gl i c | f c u¹ i k v x² n g p { u² i j g | x c n
 xkuĭ c n e p { c t q f^a u^a v c o x g n v j c r f^a u t c n ĩ r g u n k u d k v q n u i c | f c /
 t² v ġ o gi v t g o v² u² v ĭ0 Ĝi { k f d g p h q i n c m q | q w c o l p k | v t c | | c n c v g t x /
 x g n k u j q i { c h ĭ4 ĩ u u^a o Ā h g n n g t g u n g f g r o k k u n q ĩ m g i { t² u² v^a v r c /
 n ĩ l c h g n o g l i c | f c u¹ i k k u n q ĩ m ĩ. f g n g o q p f q w t > r c . o g t v p g o
 c n e t v ě t g u | q t v m Ā f g r o g n d g n g x g t g f p k g 0 C / t g u | q t v m Ā f g r o g n g v u^a n c /
 ĩ d e p c i c | f c u¹ i k u | c m q m c v² u v g t² p o w c v n q | » p g j² | u² i g n g v e u c m
 o^a t w > f c k p c m u k n g t Ā n v v ġ ġ g u d d g p n k n e r e u q r p ĭ0 C n ĩ u d d k t g p f g ĭ² u /
 p² n c o g n ĭ o g i v t g o v g w c i c | f c u¹ i k n ĭ4² r k u n q ĩ n e v c x q n v h g n
 o g l i c | f c u¹ i k k u n q r c . c o g n { p g m o g i c m q v² u c M ġ d g n d g t i p g x² j g |
 h | f k m g i { g n t e p i Ā v i n ĩ p v k n g u | n g f g w d g c | g i { Ā w g u d g c n g t g u /
 n g f g m k² u k r c t k n ĭ4² r k u n q ĩ m o g n² 0 U n ĭ4 d g p p² o k ġ i o g i x^a n q | q w
 c n ĭ4 h g r h q i^a u k u c o k c v x^a d d k u k n g t g u o v p n ĩ v c o Ā n j q | x k u | q p { ĩ x c
 x c r c o k x n g t g f o² p { g u g d d² v ġ g w g 0

O 2 n { t g i c w > x^a n q¹ a u n t > n u^a o q ĩ c w w p m d g c n ĭ4² r k u n q r c . c
 r q ĩ^a t k k u n q r c . c n ĭ4² r h q n Ā u | c n k u n q ĩ m v t Ā r g v² p 0 M ġ d g n d g t i j q u u | Ā
 k f g k i x q n v o l p k u | v t u p c i { c m q > g t g l² x g n u q t t c x g i g w l > h t o^a p
 o l p f g p h q p v q u c d d n ĭ4 q m c v² u k² u n ĭ4 o x g n f² u k k p v² | o² p { Ā p n g v 0
 V g x² n g p { u² i² p g m p { q o c k o l p f g p Ā v o g i h k i { g r j g v n 0 Ĝi { g u g n u k i g v r v
 o q | c p c v q m n ĭ4 Ā n w > r i k u n g j g v p x k c v n q | p k² t x g n g v² u g m g p² t x g n g v
 h g j q | p ĭ0 C | g i² u | c | p d e p n g p { i 3/4 g p p c i { u | g t # C | g i² u | j g | . c p p c m
 c t^a p { c l j q | n ĩ r g u v p g x g w² i g u n k e u l p { g u² i n g p p g n ĭ4 Ā o² p { g u g d d g p
 h t v c p k u c x k ĭ i t g p f n ĭ4 g r² d g^a n ĩ l x c o² t r e i g p k j g n g u c t^a p { d e p
 e f c i q n c / g r ĩ o c t g^a ĩ k o p^a | k w o d e p c n v k v . e² n u | g t x q n v / g c j w o c /
 p l u | k m u i k o p^a | k w o d e p c i 3/4 3/4 p { g r k g v c | X 0 q u l^a v ĩ { d c h g n q r p k
 x c i { c i { q t u ĩ^a u n ĭ4 g n g | v p ĩ^a u^a v c | g r o² n g k l g n ġ i n ĭ4² r k u n q ĩ m
 d e p g n n ĩ u | ĩ g p ĭ0 O l p f g | 3/4 p o c i^a d e p x² x g n ĩ u² i v g r p Ā n h q p v q u . f g
 o g p p { k t g n ĩ² r Ā n j c c / g i² u / t g . c p g o l g v g p v m u v Ā r q ĩ k n e p c i { /
 x p c n Ā r ĩ^a t c . g t g f o² p { g k t . v ĭ4 g m x² u g k t . e² m k v |² u g k t g i q p f q n w p Ā
 F g o² i g d d g p c u l p v g n g p { i 3/4 g p p c i { u | g t g i { Ā w g u d g p k u c n ġ i /
 o q p w o g p^a r k u c d d n g u | c | . c o k v M ġ d g n d g t i c p² r k u n q r c k q m c v² u v t Ā
 ġ v² p c m q v q w² u g m ĩ r | g n 0 Ĝi { k m ġ i p c i { q d d v u | v n ĭ² p g m² u o g i /

2tv l^2pgm J gte| gi Hgtgpepgm u|cxck lwpcm $\frac{3}{4}pn^{\tilde{v}}pvgngp\tilde{A}n$ gu $\tilde{A}pnldg<$
 $\ddot{e}J$ c ng| $\tilde{A}pnldg$ xguu| $\tilde{A}n$ cmq \tilde{v} uclp $\tilde{c}m$ lgi { $|^2n^{\tilde{v}}$ qn{cp itcpf \tilde{c} | wu
 $n^{\tilde{v}}$ rgv n \tilde{c} rwpm co kn|gpv eucm c jcxcu|gi {gm ugtf m xci{ xkfi/
 x^a tquqm cfjcvpcn \emptyset Gi { u| a oqv xgvw qfc< $\frac{3}{4}g|gt$ p 2r knq \tilde{v} # O 2i c
u|gtvngp u| a oqm u| $\tilde{A}n$ $\frac{1}{4}f$ l^2p . Co gtn \tilde{v} dcp xci{ Qtqu|qtu| a i dcp ku
gn \tilde{v} npc v ng c| go dgtgm n \tilde{v} gn \tilde{v} gv \emptyset O a u kp \tilde{v} |ngf 2 ugk n $\frac{1}{4}$ $\tilde{A}n$ jc c
 t^2 u|ngvngldg ogt $\tilde{A}n$ $\tilde{A}pm$ o 2i ngjgv 2i gu gugvngi c xkc. co kv c|qp/
dcp c p 2r knq \tilde{v} m vgt $\tilde{A}n$ \tilde{v} p eulp a n c|v c| w \tilde{v} ngt. cn \tilde{v} t j a n \tilde{v} u.
cn \tilde{v} t pgo. eucm c ngi pci {qdd euqf a nwcn p 2 |jgv \emptyset C n $\frac{1}{4}$ gvng|
hg|glgvdgp o n $\frac{1}{4}$ 2 u 2 pgm gtt n c vcn \tilde{v} p ngi hqvqucdd. ngi o ctcfcpf \tilde{v} dd
 t^2 u| 2 t nngu| u| \tilde{v} 0

XKO

C| 3: 8: 0k p²r kunqrck v̄4x²p{v eum t²u dgp jclvqwm x²itg0 ô C u| ƒpo ci {ct xk²²ngm pci {hqmÀ grj cp{ci qm²i c0 ô C p²r kunqrck n²tf²uv Mrgdgnudgti. c Lwk² p/gi {guÀgv xqvw Ài {xgl gv ki ci cwlc. o²t xcm² u/ ²u n²4 qmc² uÀi {k² a mco vsm²t nqt² dcp dgj cwcp vcpw² a p{q| vc0 ô C xk² i j² a dqtAv n²4 gv rtqi tco o gn | gvgu nk² qii q|² uc0 ô C rtqi tco o qv c d² ngn²4² u tgpfgmg|² ugk lf lf cm cuq² o » fqu² qv² n0 ô C p²r kunqrc ² u c o ci cu o xgm² i u| Àm² i u| gt jcto » plc lco ô Gru r²r² ugm c n²i pgi gl gdd xlu qp{qm n²4 ³⁄⁴v c o gi r²x o gi / v²r² a | qw p²r kunqrck u| gtxgl gv n²i jk² p{qucdd r qvclcpm nk² qnq|² uc0 ô C pci { p²r kunqrck ² r² v² r² tqi tco o t² u r² vgu nk² qii q|² uc u c nk² k² g² j² u| Àm² i gu cp{ci k gu n²4 ³⁄⁴m dk² vqu² v² uc c | 3; 48 c Xn0 v²0 ô C m²w² t² c ² u c hqt² cf cm k fgo ci » i k nk² a t² m gi {o² u0 ô C r² q² k² k² c ² u c m²w² a r² u fgo qm² e k² u| Àm² i u| gt ³⁄⁴u| gn²r euqm² i c0 ô I q² f² qm² f² a c | c² r² ² f² k² v² p{cxk² i m² ² ² p² gi u| Àm² i / r² v² k² t² 0 ô Mrgdgnudgti u| gt² pv c v² p{ctg² f² u| gt v̄4² v² pgk h² ln f² u² gt² f² o² p² g u gi {Aven pci {l² gn² v² u² i Àcdd j² q² h² i r² n² u. v² j² a v c | kunqrc r² k² k² i p² cm c m² n² o c | n² f² plc n² gm cf qm² i c l² j² | 0 ô C v̄4² v² pgk gi {j² a | cm t² u | x² v² r² g c n²4 qmc² u h² n² cvclcpm gn² v² u² dcp0 ô Mex² t² f² a c u | gi g² k² gi {vg²o À0 p0 xk² i p² | g² k² v² pu |² n² k² n²4 À0 ô C n²4 m² i gm dk² vqu² v² uc c | 7222 p²r kunqrck è² d² l² gm w² o i u |² a o² t² c = c x² i u o² t² gi h² n² i n² v² uc0 ô C | À p²r kunqrck v² p² v² t² x0 ô C nk² f² g² » x² j² a n² | cv nk² i ² u | v² v² ug0 ô C i c | f² c² i k² k² a p{À k² u² v² n² kunq² i m² v² x² ddh² l² h² u | v² ug0 ô C | kunq² i p² n² k² Àk² p² r² o x² g² u i q² p² q |² uc0 ô C p{q² r² e² q² u | v² n² q² u p² r² kunqrc i q² / f² q² r² v² p² cm p² r² u | gt u² v² u² t² g² k² a p{w² » gt h² u | v² u² gn0 ô C | C² r² ² f² / n² t² f² u u | g² x² g² u ³⁄⁴u | gh² i i² ug c p² r² qmc² v² uk r² tqd² i² o² m² n² i0 ô Mrgdgnudgti c | C² r² ² f² / n² t² f² u n² i gn² g² r² u² dgp ku U² e² j² gp{k j² u² i gu v² p² x² a p{c0 ô C | C² r² ² f² o gi p² x² gn² f² gv l² gn² v² u² i g c euq² n² c² q² u |² a² dcp0 ô C Mrgdgnudgti / h² r² g² C² r² ² f² / n² r² 0 ô C pci { v̄4² v² pgk ki c² u² i v² cp² u² i l² x² a² v² g² r² pgm n²4 gn² l² gw² i g0 ô C D² g² j² r² gp / n² q² t² a² p{ C² r² ² f² / r² tqi tco o lco ô C | Q² t² u |² a² i qu C² r² ² f² k² D² k² q² u² i 0 ô C | C² r² ² f² m² w² c² » D² k² q² u² i 0 ô C F w² c² 0 V² u | c² e² v² q² t² p² c n² t² f² ug Mrgdgnudgti o gi xk² i v² u² dcp0

Mrgdgnudgti p² go v² kn² q² n² c | v c o gi i { | f² u² v² j² qi { p² a² n² p² m² c p² r² qmc² v² u Ài {g n²4 Àn c n² i l² q² dd² gu² v² d² gp n² i {gu ³⁄⁴ a o² v² u² h² n² v² 0 J² q² | w² p² m² d² ² e² u² v̄4x² p{g² n² gv u g² l² g² n² gv p² go j² clv² q² w² m² x² i² t² g0 v² i { r² n0 G² ² x² ² ² u L² | u² gh² 3: 8: / dcp. j² cv ² x² v² k² g² f² f² gn Mrgdgnudgti p² r² qmc² v² uk c² n² e² k² l² a² p² cm v² v² |² ug gn w² v̄4x² p{dg k² m² c² w² c |² a² n² c² i² p² qu v² cp² n²4 gn² l² gw² i² gv0 Mrg / d² gnudgti c² w² n² h² n² j² qi { c | ² x² h² q² t² f² w² v² p² go À² p² p² r² gn² gv À² m² o gi p² {w² i² q² f² v² n² gm² k² u² o² gt² g² w² n² v² n² gu² g² t² n² ² ² e² uk l² q² i² qu² w² u² i² i² cn² è² o² g² tv² u² À² n² q² u² f² q² n² i² . j² qi { g² | c² | gn² u² t² gp² p² go | g² k² u² À² m² i² r² gv² v² nk² h² g² l² v̄4x² p{ o gi /

cmq^o uc w^op jcwcp 2xxgn ku t²u|dgp o²i eucm rcr^oq^op xcp o gi 0
 Ogmqt c u²i {gp rpgp. j c o wcu^o uclpm o kw c pci { 2xh^otf w^op
 pgo 34xgpf jgyp^opm jcpgo k^onf^odd o ci w^opnev qnq^oj cvp^a pm n^o4grgu/
 u^oi ^oAm gj cp {ci q^on^ou^o2t# Ogtv G^o4x34u pgo xq^ow jk^oa u0 C| c u|grgo .
 co gn{ v^o4x2p{2v ^aj cvc. o k^opf x²i ki 2^ork hqi. co ^oq^o c o ci {ct pgo |gv
 2^ou U Mrgdgn^odgti. cnk c uqtu l^on 2xu^o|^a cffcn n^ou dd G^o4x34u ^oq^ocu^o w^oc
 o gn^o ^oAngv^ow rg. eucm ^arfcpk w^olc gn fl²pgm pgo gu go n^ong^ogv^o u
 ki {gm| kn r²rf^a1^ad^on vcpw^opk0 eD^a o w^ocqu k^ow^ole^oxcn o gi n^owc. jqi {
 gu| ki g^ognw hclw^onev Gw^o>rc n^o4gr²p eucm c o xgn f²u vctj cvc hpp.
 C n^ogi {gl²u w^op m^o4p^o4ugp Cw^o| v^ol^odcp uq^onev xq^oncm cnkm cddcp
 dk^ocmq^of^owm jqi { Oci {ctqu^o|^ai c jqu^o| ^oA u| q^on^ocu^oi c^ow i c| fcu^oi k/
 ni 2u o xgn^ou^oi v^ot²p cpp{lc gm c^octcfv. jqi { pgo ng^ou n^or^ogu c ZKZ0
 u^o|^a c f n^o4gr²p c tqo qnd^on gi { ^oA o qf g^op ^amco qv l^o4r^o ^oq^opk0 Dgu^o2^on
 v^om jqi { c| 3:890k n^ogi {gl²u eucm n^ol^otrgv o c^octf. o gn{ c o ci {ct
 pgo |gv i c| fcu^oi k 2u o xgn f²uk i {gpi gu²i 2^op²n hqi xc 34u| g hqi qo r^opk0
 G v^o4v^opgk j^a w^ot kuo gtgv cf ki c| k lgrgpv u^oi gv G^o4x34u jcv^om cu
 gt hgu^o ^ol^ougl^ogn0 G^o4x34u ki c| u^oi c o c pci {qdd ki c| u^oi. o k^ov d^at/
 o knqt xqn< gi {gv^opp ki c| k pci { gt u^oi ^oAm pgo |gk o xgn^ou^oi ^oAm0
 M^ow^oi v^og^op. jqi { G^o4x34u o x²v c| w^of qm pgo w^of v^om c| cmq^o
 u^o|^a pf²mek u| g^okp^o c| 2^orvdg ^av^oAngv^opk0 Gdd n Mrgdgn^odgti r^oxq^oplc c
 h^oi {gm g| v^og^ow^o xli {^a|| w^om c v^o4x2p{gmgn ogtv c| qn^opcm c p²r/
 qmc^ov u v^ot²p m^o4p^o4ugp u^on{qu n^o4g^ovng^o o 2p{gk xc^oppc^o vcpv^oto gm
 t n v^op^ont^on v^op^ont^on^o uqnt^on ^ancr^odcp x²i t^og^ocl^o u| g^otxgn^o n 2u
 c e²mkv | 2u gr²t²v dk^o v^oq^o gu n^o4^ont n ku i q^opf qn^oq^opk ngn0 C
 m^ow^otr q^okn^opcm gttg c t²u²tg m^o4p^o4ugp ^am jqi { n^o4p{gdd
 x^oco kv rcr^okt^oq^opp gr^ogp^og^opk o k^ov c| 2^orvdg ^av^oAngv^opk0 Mku^o ^ao ^olc.
 jqi { c o ci {ct r^onqu^o|^ai gi {pgi {gf t²u²v v^o4x2p{ n^o4gr^og^ok k^onu^o/
 r^odc. kuo 2^own dg. r^oxgp^ov^odg ud0 l^at^aut^o Gi {gn tg o²i c x²i t^og^ocl/
 v^ou^on l^o o gu^og xci {w^om u o^atku cnef^opcm cnkm uq^onem^am c n^o4m^o/
 i g^ogv. pgo w^of x^ap. jqi { r^oo c| Gi {gu^orv f^onc^o qn^olcp xc^oppcm gi {gu
^amco qm 2u n^o4u^oi gm co gn{gm n^o4m^oi xg^ov^ou^oAm 72' /^av hq^otf ^ol^om n^o4/
 qmc^ov uk e²q^ontc0 Cnk C/v o q^opf. c^oppcm D/v ku ngm o q^opf c^opk# eJ c
 c| ^amco gi {hgn n n^oo q^oflc c| ^ancr^opqu k^onu^or^on^o4gr^og^ogw^oi gv cmq^o
 o^auhgn n c| ^amco pcm n^o4grgu^oi g. jqi { c| k^onu^oq^om 2^or^o ^ol^ov gn o q^o/
 f^ouc. c v^otj gm pci { t²u²v xkug^og 2u ^ol^o { r^ogv x² v^oi {g c
 vcp^on^o4gr^og^ogw^oi x²i t^og^ocl^ov^o u^o c| k^onu^oq^odc l^at^auv. ogtv m^o4p/
 dgp c| k^onu^or^on^o4gr^og^ogw^oi n^oo q^of^auc r w^olc 3^oa^o ^ol^ou0 Kw c o c/
 i {ct p²ro xg^ov^oupgm q^ol^o t^an^oh^og^o2^ol^ot n xcp u^o». co gn{gp pgo r^ogv
 ugo v^o4x2pp{gn ugo t^ogp^og^owgn ugo c v^op^ol^o {2tv xcn^o r^ogm^og^ou^of²u^ogn
 ugo 2^onguu^o >^on^ou^ocn ugo l^a| k^oucn ugi ^oq^opk jcpgo ki gpku v^oi r^oxcn 2u

o cngttc< p²r kunqñm v̄o gi gu 2r ¶²u²xgn 2u r gfi qw cjqn jgn(u) ng
o lcwdgkunqñ | cwrp i {gto gngmxcppcnŋ

U kñgp jgn(c euqpnē jcl^adcp pci {qp uqm cnefv. ct^ap{cwrpwn
v̄dd. o kp v i qpfqrp»nŋ C nēgi {gl²u nqtc g vgnkpvgdgp c vlcqpkp
euqpnē ki gp uñqu 3434m²i gv jci {qwŋ C tqul vn 2tvgm gl gw pgo | gw/
u²ik rqrkñc n²4gwng | o²p {g xqrv c ul ¶po ci {ct xk²ngm gñ cp {ci qñ uc
2u c pgo | gw²ik xk²ngmpgm xcn» vñ qw ngf xgl²u ô h rgi p²r kunqñk
v²tgpŋ G | v c rqpqv Mrgdgndgti 2rgu tghrgmqt/l²pp {gn xkñ i ¶lc o gi ŋ
Ugnkp gm ugo xqrv v̄dd lqi c gijgl. o kp v pgnk cnk ngf gwn hqi xc c
rgi lqdd pgo | gw²ik rqrkñ pcm c o ci {ctu²i. c ul ¶po ci {ct gng gm
gt u²u²v 2u hrgo gñ u²v vctvqcŋ C v̄ddk ul gtlpv o clf o ci^a »n l³av
xqpc# G | gn ul go dgp c jkxcvñqu rqrkñc ^amcpf >cp c pgo | gw²i gngv
cncv c o gi p {gtpk u c | qncv f²f gñ gwŋ è Vtgpēu²p/o gi {2dgp o²i c |
kx^ap {qñqp ku rcmvcul gt grgo k p²r kunqñ nev 2r ¶gwgm c | Cñf/af
2u c Fwp^apvñ ul ¶po ci {ct xk²ngkv r gfi gñ cp {ci qñwñ ò ¶lc ngug/
t gpŋ Mrgdgndgti gl v ngf gwn hqi xc x²i | gvgu jk^a pcm vctvqc.
r gfi cmqt o²i pgo uglj gw. jqi { c I qpf xkugñ u c | x^a mktc
tenlc o clf c jgn {tgi c ¶²u kfcwrp vgt²vŋ O²i c d²ngxkñ i dcp
j^ap {ul qt uñi gw. jqi { o kpf gp gt v c ul ¶po ci {ct xk²ngntg. c
p {grxj v² tqntc 2u c ul »tx^a p {qntc ngmgp n²4 r qpqv ul cpk# P go
jcmi cwm t^a u o klg jcvñqo jql lwqw. c xku qp {qm i {34ngtugp
o gi x^a nq | vñŋ

Mñp³ugp n²4 qmcv^a uñi {k ^amco vññ tu² i c cñw p {¶v d u²i gu
cmem c c n²tf²u cñr qu vpw^a p {q^a u²tcŋ O ci c o qpf lc. jqi {
3; 35/dcp it>h Vku c 2u lcpñxlej D²nc wclf qpñ r r gp o kp v c p²r/
qmcv^a u ur gclcrv^a l^a v j ¶x^a m o gi ^amco vññ tpcnŋ G | v c nk^apv
dk cm cv c Lwñ p/Gi {gu^avgdgp x²i | gw ul gtxgl o vññ l^a xcn 2tfg/
o gng nŋŋ Mrgdgndgti. c tgp ul gtu o vññ hpcvñwuc. gñ n²4rgu/
u²i² pgm 2tg | vg c o kpf gp rqpvc nkgtlgf cfvi { l²uv. c ucvku vñk
hñf qñ q^a uv. gl²tv c | qppn o gi ul gtxgl vg c ul kvg ^avñ vj c vwrp v̄o /
ngñi gv ^avñi » Ñi { cñr qucdd o gi kuo gt² u² pgm cñr xgv gu l²4² Ñn c
mññ ucvku vñk qu vñ vŋŋŋ Cppgm c | qu vñ pcm ugi ¶u²i² xgn jcrf² m²
vwrpwn nkf qñ q | v c | v c rti tco o qv. co gn ul gtlpv c j^a dt^a Æ dg/
hglgl v̄xgn Pci {o ci {ctqtu^a i p²r kunqñk j^a » | v²v n²r ¶vpk ul^a pf²/
nq | qwŋ C | gñ fñi gu e²n ngw xqpc o quv o^a t c o ci {ct grgo vgtx/
ul gt o gi gt u²ugŋ C pci { rti tco o c uñi u²ik ul go rqp v hñi {g/
rgo dgx² vñ² xgn nkgtlgf v c | ^amco k 2u pgo ^amco k grgo k kunqñ ntc
gi {ct^a p wŋ Mñp³ugp pci { i qpf fcn n²u ¶gwgm gn c vwrp {ck kunqñ m
2u kvgt^a wuqm ul gtxgl² u²v. vx^a dd^a c p {grxj v² tqñqp 2u p {grx/
ul ki gvngp 2n o ci {ctu²i kunqñ ul gtxgl g²v pgm n²r ¶²u²vŋŋ Gi {ul gt

o clf nî4 qmcv̄ uwpm v̄4v̄ pgv̄ pgm gl gngv c| kcv̄qnev̄ gn ngm ul gf plg
c tcnv̄ tcnv̄r#

C o wpm̄r tqi tco o nkf qn q|^a u^a tc xqpcv̄m| »nci Mrgdgndgti
hqi cm c| x^a p{ck nî4 3/4v̄ t^a pm o ctcfv̄ gi { c o ci c u^a o^a tc rglgi { | gw
x^a | mv̄ co gn {pgm p²j^a p{ t²u| rvgv̄ o gi² tf go rk c| kuo gtvgv̄ u0 C| ku
rjgv̄ jqi { g v̄ ti {t>n vctvq xci { gn nî4 u| rvgv̄ gn cf^a u^a pcm i qpf qrv̄
o gpgv̄ v̄ t³/4 | rvgv̄ o gi p²j^a p{ o qpf cvdcp0 ëC j^a dqt^a w^a pk pci {
jgn{tg^a nî4 u ô pgo t³/4kf^a v̄ o gpgk nqtul cm jcpgo² xv̄ gf gm o wp/
nî4 c ô pgo rjgv̄ eucm c o xgnv̄ nî4² rqu| v̄ n| o xg0 Gppgm c| »t^k uk
hrcf cvpcm o gi qrf^a u^a dcp t²u| v̄ ngm xgppk c| gi² u| pgo | gvpgm c
p²r u² rgu t² v̄ gi glp gm² u r gfi c j q|^a 2 t² v̄ u c wf^a u gtgl² xgn o gi/
jcv^a p{q| qw o wpm̄r xcn0 Qn{cp o qpf cv gl. co gn{v l>xcn nî4 u dd c
pgpckepck| o wu>n gn² mrgf Mrgdgndgti ku o kpf gp x^a nq| cv̄ u
p² m^a n rglj cvq w xqpc0 Gdd n ku r̄ v̄ ul km jqi { c r̄ v̄ ul »nci tcr ul qf kmu
i qpf qrv̄ v̄ t^a u^a Mrgdgndgti o gpp{kg e² nwf cvqu xqnc i qpf qrv̄ krf/
i^a pcm^a mcpf>dd grgo gk p²j^c 2 xv̄ gf gnki² trgn f vgn0 C wf^a uv² u c
j q|^a 2 t² v̄ uv c vpm̄r 4 rgnugm dglunq n^a uc pci { o² t² v̄ ndgp gn ugi r̄ k0 O gi
ngm v̄ j^a v o gpv n gn dd kpf r̄ cpk c v̄ txul gt gn nî4 u| rvgv̄ v̄ x² npp{u² i gv0
Fg gl gpn r̄ k^a n c ppxgn² u v̄ p r̄ v̄ o wpm̄r v̄ ku vctv̄ cuodd^a. h r̄ gi o² i ku
i {cnqtr̄ v̄ kdd^a ngm^a v̄ hto^a r̄ pwpn0 C hrcf cv o gi qrf^a u^a v̄ cm̄m̄ kci
o gi p̄ j̄ gl r̄ km c v̄ gr̄ r̄ uk xlu qp{qm r̄ t0 c| C r̄ h̄ 3/4 f 3/4 c v̄ p{ctgp ul gt0
Mrgdgndgti c uc v̄ ul v̄ m̄ uqm ugi r̄ v̄ i² xgn o^a t n̄ k̄ r̄ ḡ v̄ c| qnev̄ c̄ i>g/
r qpv̄ v̄. co gn{gngp ngm ul^a o^a À vpm̄r 4 r̄ guv r̄ jgv̄ euqr̄ qv̄ r̄ cpk
o gi gt ngv² p jquul A i {c r̄ i r̄ uqm p² m^a r̄ 0 C ul gi gf k v̄ p{ck kunq r̄ Ā {
n̄ k̄ r̄ v̄ u² tg pgo eucm c t²u| rvgv̄ v̄ txgm^a m̄ pcm nî4 u| gp. jcpgo t²u| dgp
^a m̄ o k t²u| dgp jgn{k hqt^a ud>n c nî4 u² i gm ku# C nî4 | gv̄ ngv² u gl gm
nî4 r̄ qp v̄ v̄ c| gi² u| C r̄ h̄ 3/4 f 3/4 c r̄ gi pci {qdd i qpf fcn ngmgw o gi/
^a m̄ r̄ r̄ cpk0 C jqn gi {2 dn̄ pv̄ r̄ m̄ Ā f jgv̄ v̄ p̄ cncf^a n{qm o gtgf v̄ gm
xqpc. qwp² r̄ k̄ v̄ tp^a wuqmul gtxgl² u² xgn v̄ txgl v̄ c ugi r̄ v̄ u0

C o^a ukm hqp̄v̄u kunq r̄ ul gtxgl² uk v̄ t̄ r̄ v̄ r̄ gw xqpc ul^a o^a tc c
p{ḡ xj cv̄ t0 Mrgdgndgti o gi h̄ i {gng. jqi { c o ci {ct^a i ul^a o^a ct^a p{c
^a n̄ c̄ i dcp² xt n² xtg go gm̄ f km xlu qp̄ v̄ gi {gu k̄ f² ngn̄ p. h r̄ gi c
o ci {ct/tqo^a p p{ḡ xj cv̄ tq̄ h̄ lwp̄m h̄ nq| cv̄ qucp v̄ tv̄ xul r̄ k0 C| gtgf/
o² p{ uqmn̄ n̄ gf xgl dd r̄ p̄ p̄ g. jc c p{ḡ xj cv̄ t o k̄ pf gp ul go r̄ qp̄ v̄ n
o gi h̄ r̄ gn̄ x² f r̄ go dgp t²u| gu Ā0 C v̄ x^a ddk h̄ qul r̄ upcm Ā { c̄ n̄ tlc
gr̄ l² v̄ xgppk jqi { c x^a r̄ u| »xqpc r̄ v̄ kunq r̄ m̄ en ul gi k dg0 C ul »tx^a p{q/
nq̄ p o² i p̄ j̄ gl gdd c jgn{gv̄ 0 Kv̄ uqm gugv̄ dgp eucm k̄ v̄ tp^a wuqmn̄
r̄ jgv̄ c n̄ k̄^a p̄ cv̄ u gtgf o² p{v̄ dl̄ v̄ ul r̄ cpk0 C v̄ ul v̄ pgo | gv̄ k̄ i k xk² ngm
kunq r̄ Ā {2 p̄ gm n̄ gl r̄ i² u² dgp c r̄ gi pci {qdd »xcv̄ u^a i qv̄ cl^a p̄ r̄ c. o gtv̄
kw o k̄ pf gp v̄ Ā r̄ gu r̄ v̄ gw^a m̄ o k c̄ n̄ k̄ j̄ gxgu t̄ gc̄ n̄ k̄ v̄ x^a n̄ j̄ cv̄ n̄ k̄ 0 Gi {

nʔuʔi vgrgp< c vku|c pgo|gwuʔik xkf²ngngp hgrnf|qvw^ancok kunqʔm
 c o ci {ct p|gɾk vgtlgul vʔuʔdgp uqj c pgo²tj gkm gn c|v c| gtgf o²p{v.
 co gn|gv v nʔm c nʔtf²uv i{cnqtrvki pgo kuo gt m xʔtpk u|qmnc0
 Okgn cp{ci k gul nʔgkpm c jʔdqʔÀ wʔp o kpf gp xcn»u|p uʔi i gn nqk/
^avq|qwem nqu|pgm hqtf|uwm r²p|ʔpngv qfc. cj qn c nqi pci {qdd
 gtgf o²p{v xʔtj cvlwk c u|pbo ci {ct xkf²ngmt. c p|gɾk vʔtqmtc²u
 c u|»txʔp{qmtc0 Mʔu dd o gi go n|vgw. jqi { c| gi²u u|gtxg|gvv c
 t²u|ngvu nqvpc vʔnʔr gp c|wqn» hcnki. c|wqn» vcp{^aki. c|wqn»
 o clqtki qn|cp r qpvqcp nkqni q|vcv. jqi { l»hqt o^ap eucm gi {
 xkrco qui qo dqvngmw xqpc c pci { o gɾkpf |ʔ u j q| o gi p{qo pl0

C i qo dp{qo^auucn c|qpdcp uqni ki ngmgw xʔtpk0 Mʔ4 dgp c xgl g/
 vʔngm gi { t²u|g gul cnf v0 C xgu|vgw jʔdqʔÀv nʔxgv d²ngr ctcpou
 vʔti {vrcpp^a vwg c rtqi tco o nkqni q|^auʔdc hmgvgw o vprc lgrgp/
 vʔngp{ t²u|²v0 C u|»txʔp{qnev. c p|gɾk vʔtqmtc u|kpvg nix²gn p²mʔn
 gɾkxul vgwʔm u v c| À jcvʔqm o²n|gp dngx^aicm c u|pbo ci {ct
 vgtʔngvndg0 C| gi²u vgtxg|gvv^av ngmgw cnrc|cpk0 U xqnv/g c jʔdq/
 tʔv nʔxgv jʔu|cu²xgm gɾl²p gi {^ancf p tgo²p{ ctte. jqi { c o gi/
 euqpn|qvw²u nkhq|vw qtu^aidcp c u|ʔm²igu r²p|v ô ki gp pci {
 r²p|w ô gttg c e²rtc xcnjc ku o q|i»u|cpk nqi gvʔ Gddgp vcp eucm
 gi { go dgt jkw< Mgdgnudgti0 C I qpf xluqʔu Ai { cnctv. jqi { pgnk
 nqi {gp ki c|c0

C mwaʔhʔʔp{ i qpf qrvʔpcm nkrcnwaʔuʔv kuo gtvgwg t^ao wcv/
 vco. jqi { Mgdgnudgti c| qtu^ai uqtuʔpcm lcxwʔuʔv tgpʔʔngvʔʔn c
 o xgn f²u u|p|xqpcf pcm go gʔuʔv n xʔtv0 C| qp nqi gvgw xkcvu|pk
 jqi { jqn nqi flʔm gn< cnwʔg. xci { hgnʔnʔ Nʔwmm jqi { Mgdgnudgti c
 xku|qp{qm nʔp|u|gt|v p{qo^auc nʔxgvng|vʔdgp hgnʔn n kpf wv gʔ
 Fg c|cn vku|vʔdcp xqrv jqi { c| cnr. cnʔtj qn nqi flʔm ku. o kpf ki
 o gi o ctef cnr pcn0 G gp xʔnq|vcpk pgo nqi gv0 ëMwaʔr qiknck
 hgrqi^auqo c|. jqi { o kpf gp gi²u uʔi gu p²r qm vʔupcm c o kpf pperk
 gno k kunqʔn p ngm hgrʔr ʔpkg²u o kpf gp vxʔddnʔr|²u jcuqpn» eucm
 o^auqftcp i ʔ nʔtf²u i0 G o qpf vʔdcp dgppg xcp c p²r qm vʔu f³p v
 lgrgpv uʔi²pgm gɾk gɾkuo g²u g0 Mʔnʔp³u gp hqvqpcm vctvqc c nʔtf²u
 gi²u uʔi gu tgpʔgl²u v c vkpqpk qtu^aidcp. cj qn c o ci {ctuʔi qv c|
^ancf pqu jcf nʔxgvng|gwʔi pgo|gvgxgn dghqʔn^auʔwn ku gnʔxʔm²m
 Fg hqvqu xqv c rtqdʔoc ic|fcuʔik u|go rqpvd»n ku0 Mgdgnudgti
 xku|cgo iʔm|kn xqrv dgtrpk vcp^atʔpcm Cfqrj Yci pgtpgm hglvi g/
 i gv²ugtg. co gn|gm u|gtkp c vto gʔu pgo nk^at»nci c| ʔ0 p0 ic|fcuʔik
 gt m hʔi x²p{g. jcpgo c nqi u|qtqucdd ncr euqv dcp xcp c o vpnʔu
²tvgrok u|p|xqpcf xcn²u c xgl gv m nʔr|gwʔi²xgʔ0 Go gɾpk ngm vj^av
 c o ci {ct o vpnʔu u|p|xqpcf v ku0 Fg gjjg| r²p|. r²p|²u kuo²v r²p|

ngngv0 Mngdngudgti pgm ukngt^Árv c| gi {o^auv hgrk^an» r²p| ^Ái {o kpkul /
vgtgm ul go²dgp ^Á0 p0 ngngo gvvp o kpkul vgt² gn r²rplg. fg o kpf gp
^Ái {gu²i g gngp²tg c| qrciqu nqtu>d>n h rgi grkpv. kpn²dd eucm eu³4 /
rgpv o kpv euwtcpv0 O^at rgfki c mwm^Átc ²i ku eucm ^Áxgi j^a| k p³k²p (=
eucm ^Ái { xkwj cv jc ul gtgvwgn^a rqn^am²u ctcpp {cn ³p³4 kni0 G| v
wi {cp c o cicu mwm^Átc o qpfv. fg c p²rnwm^Átc ku²tvwg. d³4eugp
wfx^ap. jqi { r50 c p²r qmc^vu vgt^Árv²p c pci { ul qt| »u^ao qm c nkugdd
²u qre>dd gi {u²i gm gngp²tg pci {qdd ³4ul gi gngv j q| pcm nk o kpv
co kn gpgm c o cicu mwm^Áa p^an gi {^ancn²p ul >dc l³4 gvp gn0 Fg o gi ngn /
ngwngpplg²u o gi ngw#

C o ci {ct p²r qmc^vu ul gtxgl gvg o^at c j^adqt^Á gn w ku pci {
nkj ci {^auqmcn o n³4³40 C dgkqnqf¹a u vgt²p m^Ápd³4 qnqnd>n
o^at cmqt ki gp ngfxgl vgp jgn| gv crnwv ni0 C j^adqt^Á w²p c
jgn| gv vx^add tqo nq0 O gi d¹| jcv» cf cvqm ul gtpv 3; 42/dcp o k/
fgp jcvf km o kpf gpprk vcpn³4grgu pgo l^atv kunq²dc= c| kuo²vn
vcpn³4grugm n³4 ^Án rgfki^a vci dcp c hgrg gi {^ancn²p ugo o k²rg qmc/
^vudcp ugo t²ul gu^Án0 Fg cmqt ugo t²ul gu^Áj gvgm xqpc. jc pci {qp
cnetl^anc pgo xqnv grⁱ h²t jgn# G vgnkpv dgp m^Ápd³4ugp gi {gu
x^ato gi {²ndgp²u v³4x²p {jcv>u²i k x^atquqndcp xqnv ul qo qt^Á c jgn/
| gv0 Rf0 nk i qpf qnc xqpc. jqi { Rgv/Rkku/Uqn/Mkunw x^ato gi {²dgp.
c| qtu^ai ul ¹k²dgp c 8⁶ 33²xgu i {gto gngm 53' /^a pcm Jgxgu x^at/
o gi {²dgp 540' /^a pcm Mgeungo²v x^atq²dcp rgfki 680' /^a pcm
gi {ul gt gp pgo lwqw jgn| c| kunq²ndcpA Fg gl gm c ul^ao qm o²i
gi {^ancn²p pgo o wcd^am c jgn| gvg c o cic nqo qtu^ai^adcp0 C| kunq/
r²m pci { t²ul g o²i ¹| { ku v^Áu^Áqnv xqn0 f vci dcp *# 82 vcpw» lwqw
gi { vcp¹tc. co k cpp {kv lgrpv. jqi { xqncm kunq²m cjqn 322⁶ 372⁶ /
422. u v gpp²n ku v³4d i {gto gm ul qtqpi qw gi {gvvp vpvgtgo dgp.
vgt²ul gvul gt rgi c rgi v³4du³4 qul vcvp kunq²dcp0 Kk gp n³4^Áro²/
p {gm n³4³4v c ul ki qt^Ádd d¹| u²i qn²upcm ngo²p { tgpf grvgm nkdqeu^a/
^vu²pm pgo ngw xqpc ugo²tvrg. ugo gtn³4euk crrlc0 K^v eucm
nqo qn { o v²nc ugi ¹| j gvgw0

C n³4 x²ngo²p { h rgi c| cpcncd²v m ul^ao^at>n n³4 |²vgw cf cvqm
xk²i qu^ai^ap^an f³4dgpv t^a c n²tf²u tgpfn¹Árk hqvqu^ai^atc0 C|
3; 420 fge0 530k p²r ul^ao r²u c fcvckd>n nk²gt^Árv jqi { c euqnc qtu^ai /
dcp. co gn { grxgul vgw c o xgn²i dgp gro ctfv pgo | gv²i gk.
30; 2.937 jcv²xgp hgn^Árk cpcncd²v xqn0 J qttdk²ku ul^ao. co gn {gv
m^Ápd³4 ucvu²knck ul^ao o xgrvgmgn rg n²j gvgw wi {cp p {qo pk
: 88.222/tg. co k c| qdcp o²i o kpf ki 340' /pcm hgrv o gi 0 Xku qp {/
rci qucp j^atqo ul qt cpp {k xqnv c| cpcncd²v pm o kpv Cwu²tk²pcm u
³4ul³4 cpp {k o kpv c t²i k Eugj qtu^ai pcn# C| gi {km jkxv²qu nkcf /

x^ap{wpm go rñk o gmmqt c jcv^uucn xqncm gl gm c| cfvqm c n⁴x²rg/
o²p{tg0 èC| Àlufiqm^ancpf»cp hqi rcmq|wcm c n⁴tf²uigr0 O kpf gpnk
2tg|vg. jqi { c| gt i { l²u²u hrgo gmgf²u hgn²vgnk n⁴Àn c| grgo k
o xgm²i j²k p{clp²cm r»v¹uc gn ddtgxc» c v²/ddp²n u jqi { c p²r/
qmc²u pgo gi { u|cm² kplu|vt Ài {g euw^ap. jcpgo c| gi²u| pgo|g²0
C| cpcrhcdgk²o wu gmgpk m²Àfgrgo lgnu|»x^a rgw. fg jqi { pg o ctf/
lqp r wu|vc lgnu|. cjjq| u²Àn qu²u jquu|cdd kf p^av jq|qw cp{ci k
^arfq|cvqntc rgwxqpc u| Àm²i i 0

Mrgdngudgti vj^av c n⁴x²rgo²p{^a n⁴uhqi rñ¹uc vgnkpv²dgp
cm²cm cupcm r¹u|» kf rqpvdcp l³/w0 C l» u|^apf²m o gi xqim fg xgl g/
fgm gup j²k p{|qwc c r²p|0 U o kplu|vtu²ig ngl fg²p²rrgp pgnk
cnk c j²k p{qnev qn|cp v¹u|v¹p r¹vc. gpi gflg ngnmw c vcp¹»m r¹v
u|^ao c crcu|v¹u¹pcm n⁴tf²u²dgp0 C D/rku²m nqt^av²n⁴0 Mrgdngudgti
o kpf gp vcp¹»²tv c x²i rgnvki m²Àf³/w. fg^avo gpgvki grxgl vgw
c euc²v²0 O²n² ugd o ctfv rgn²dgp0 M²u dd Ài { dgl²nv gtt n c| gugv/
t n o kpj c pgo ku jkxcv¹qu. jcpgo xcrc k rgi u|go²n²gugdd xgl v/
u²i²tv xqpc0 Xkuu|ck²|k c vnc²ng²u²i k dk|qu²i² u c u|go²n²g
n⁴3⁴/w rghn|v vci kmw³/u|geuc^auv. èco gn|pgm go r¹ngk ô² f¹lc ô²
qn|cp n²ugt gp f¹»f¹vc m dgrg c|²p rnmgo dg. jqi { c|qncm h¹lfcm cu
go r¹ngkvo clfcp o ci co o cnxlu|go c u¹fdci 0

C| kf c|qpdc pci {qp ku jco ct v ki c|qnc0 Go gmgf pk ngl fgw
c| kunqrcn⁴grugm u|^ao c. u v o^at c| gnu²xgnlgp c pci { pgj²|u¹igm
gnp²tg ukngt²Àv c p²r kunqrck u|gtxgl gv ngl j²k p{qucdd rqpvlctc hqn/
vqnev tenpk u f¹| pgo eucm c| gndqeu²qw vcp¹»nev xgl vgw xkuu|c.
jcpgo c| À qu|v¹n¹qm u|gtxgl²u²xgn gi {Àv À vcp¹»k^a n⁴uqnev ku
r¹vg¹ij vgw0 Ukngt²Àv pgnk c v²À u²Àqnv qu|v¹n¹qm u|^ao^av ku eu³/mgp/
vgp0 O^at 3;46/dgp dglrgpvj vgw. jqi { o kplu|vtu²ig ngl fg²p
:48 qn|cp qu|v¹n¹ xqim co gn|gnpgm r¹u|^ao c :2/p^an v²/ddt t²Àqw=
kf n⁴dgp ukngt²Àv c| kn|gp qu|v¹n¹qm u|^ao^av 372/tg eu³/mgpv²pk u
tgo²rk jqi { j^atqo²x o Àxc c| kn|gp r gfc i »i kck u|go rqpvd²n gnkugn/
jvgv²gp qu|v¹n¹qm x²i ngl gn hqi pcm v pkl0 C u| Àm²i gu vcp¹»k r¹v
u|^ao qv 42.222/dgp^ancr¹qvc o gi 0 Pgo uqnm²n rgo qpf^auc gn w.
3;530 o^alwa 390²p o²i 3297 À vcp¹»k^a n⁴u u|gtxgl²u²v vctqvc
xqpc u| Àm²i guppn0 l¹tf gnu xlu|qpv. jqi { co knqt u|kpvg f¹lc cm c/
ucp u|^ao qn dg c rctco gppgm c vcp¹»k r¹u|^ao go gr¹u²t n w i {cp/
cmqt jcuqpn» l»ngu²t²uugn tgi ku|v^arlc c n⁴r qpvk cf o kplu|v^aek/
dcp hqi rcmq|vcqvc m r¹u|^ao^apcm eu³/mgp²u²0 Co knqt c mwnu|/
v¹te^av^avgvg. c n⁴r qpvk ki c|cv¹udcp c r¹u|^ao ::; xqn0 G|v gn/
u|³/4 683/tg. o clf 644/tg eu³/mgpv²0 C| gtgf o²p{v r¹y c w^ari
qn|cp x¹o^ap{pcmv¹lc. co gn²tv d²Àu| n⁴p xkgrk hrgn u²i g0

C| 3; 4; 1520 ²xk gn k^ap{| cv ^ancrf pqu kpf qnqrf u^adcp ner lwm o gi c x²i u r qpvqu u^ao qncv0 G u| gtlpv c hqi cm c|^auk u| cm c0 o kpk| vt ²u ^amco vknftqm dgu^ao [¶]u^axcn 326/t n 83/tg. c u^ao xgx u^ai k 5; 5/t>n 3: 3/tg. c ng| gr uk 46; /t n 323/tg. c| cnku| k 358/t>n 95/tc eu³amgpv0 Lnggo | cf cvqm²u m³ñp³agp lnggo | o ci cvct^v u#

P lpeu t^a vtgo. jqi { c pci { p²r kumqrek ²r ¶v cnek» o kpf gp gi { gu o q| cpcv^v m³ñp kuo gtvguogo 0 C| kf gxqpcvnu| » cf cvqnt>n Mf dgdndgti m³ñp/m³ñp ku dgu^ao qn u c| gi²u| hqn{co cvqv t²u| rvgugp ³4u| ghqi rnc c| 3; 4:/dcp n³4|²vgw jcvcm cu o²tg v jkxcvnu nkc/ x^ap{ c o ci {ct p²r qmcv^vu>n0 C| gtgfo²p{gngv o clf c| 3; 480²xk Kk0 ve0 kuo gtvg²u²xgn ner euqrvcdp rt>d^arqo ³4u| ghqi rncp0 Gn | g/ vugp c| qpdc p e²u| gt ngu| p²j^ap{ hqpvcudd n[¶]i²t n³4 ãno²p{v nko gpggo 0

T^ao wewco. jqi { c rqrknek rfi n³4 ^ancrf dcp ngfxg| pgm r^v u| qw gi { pci { qddct^ap{ ã p²r kumqrek ²r ¶v rtqi tco o ng| fgo²p{g|²/ u²tg ²u rgdqp{qrf^v u^atc0 Mrgdgdndgti t³4 v³p o kvgi { ³4u| v³pu| gt gp o gi²tg| vg. jqi { c pgo | gv v³p{qo » t²u²dgp o gi rpppg c| ^arf q| cv n³u| u²i 0 W»rci o^at o^au xqpcvnu|^audcp kuo gtvgvgw d²euk dgu²f²dgp wcnv ku gttg c j cpi wrcvc0 ëCnkp gm dgn^vuc xcp. fgo qntcvknw nqtwpn/ dcp c p²ro xgr^u u| ãnu²ingvk ^an[¶]lc gu jgn{tg0 P^anwpm Oci {ct/ qtu^ai qp ku c p²rn³r xkugrv pci { ^arf q| cvn³u| u²i i gn u| cxc| v c o gi c| gu n³4 ³4ngv 7222 p²r kumqrek vpvgtgo ²u v[¶]¶k rcn³u ²r ¶v²u²tg0 Fg c|²tv pg jki {lã m jqi { g| cmcrqo o cn ku o kpf gp uko^ap o gpv xqpc v/ o cf^vm hgnã n²u cmwt>n lqddt>n²u dcr>n0 Hgnã n²u lqddt>n c| xqrv gngpg c x^af. jqi { m³ñp³acn hqtcfcm cu[¶]lc c v³o gi gngv0 C x^af c| qpdc p cmcr kci eucm c| v c| ²t|²ngp{u²i gv ngpf |vg. co gm{gn gi {gu pci {dktvnuqm c n³kv[¶]kw qnqp r^vgu|vgpf kumqrm ²r ¶v²u²pgm ²u hppvct^v u^apcm n³4ng| gw²i²v hqi cf^vn0 C| cmwt>n²u dcr>n l³k v³o cf^au r gfk c v²p{gngv hki {gm gp n[¶]ã n jci {xc o cmcr uwn hãv c t²i k p>v< Mrgdgdndgti crcr l^adcp x²xg o²i ku eucm grj cp{ci qrc c o ci cu m³ñp³ac ngfx²tv c p²r qmcv^vu# Mrgdgdndgti d^awcp p²|jvgw u| go dg o kpf c n³v x³ ffc0

U^apcmqo o cn i pfpqv c| qntc. cnkm c nqtu| gt p²r qmcv^vu cn ner euqrvcdp c hqtcfcmo xgu²n²v go rgi gw²n0 C| o gi i | | f²ug ²r rrp c| gngpng| xqm0 U| gtlpv 3: 89 »v c| xqrv gi {km rgi pci {qdd dclwpm jqi { c pgo | gv u|²ngudd t²vgi gk cmcrup{cdd o xgn²i ãnp²n hqi xc pgo w^vcm jgn{gu x²rgo²p{v hqto^apk c o ci {ct rqrknek r^v n³tf²ugt n c pgo | gv jgn{gv²t n xcn>fk u| ãnu²ingvt n u v gi {gu V²vgi gm o²i c ucl^av l>n hgrhqi qw ²tf gngkngv ku crcr qucp l²rtgkuo gt^vn0 Gppgm n³xgng| v²dgp xqrv c| qtu^ai c fgo ci >i k mcu| knw h³4flg.

T²i gp grō Æn cpcm c| km̃ lōpcm kfglg. jqi { c ekxk̃^aek̃ jk̃ p{c
 lo o wpl̃^an c hqtcf cno o cn ul go dgp0 Gngpnl̃ rgi < ul kpṽ ñ|| gñji /
 jcw̃ ki c| uⁱ. jqi { c fgo ci > i k̃ 2u gppgm ñ⁴gngl̃ o²p{g. c hqtcf c /
 nqo gngp eum gi { ki c| k ul²two xcp < c mwm̃^alc0 C ock xk̃ i dcp c
 xgu l fgrō gm pgo hgñ^an c hglgf grō gmv n l̃³ppgm jcpgo c| cñ
 t²vgi gmv n m̃⁴p³gpp cmt. jc gl gm o xgrṽgppn0 K̃v xcp Qtqu /
 qtu^ai r²r^alc0 Gu l o²p{kdd mwm̃^aṽp qtu^ai qv. o kpṽ c| cpcñc /
 dgk̃ o wudcp f | u³ñ ul gpv Qtqu qtu^ai xqñv. gn ugo r̃gi gvp̃g ñ r | gpk
 u lo g. qw ṽ⁴v nk c xk̃ i ṽ⁴ṽpggo r̃gi dqt| cm̃ cuodd. r̃gi x²tgi | dd
 u gi { Æcn gu l o²ndgp r̃gi ul gi²p{gdd hqtcf cm̃ c0 Rgf ki qw ki c|^ap
 pgo r̃gi gvw c p²r qm̃c ṽ u Æ^a uclv go r̃gi gpk0 U c| qwpc hqtcf cno
 dtwck³uc² rrgp c ṽ⁴o gi gm pci { hqm̃^a wf c ṽc p²u^a pcm ñ⁴gngl̃ /
 o²p{g0 Cpcm kfgl²p F > | uc I {³i { 2u J >tc. M̃qñc ṽ⁴o gi gk ugo
 gt ngw² mo gi o ci w̃c ṽk̃ñqñ^a r̃i ṽ⁴ ucr̃

C| ki c| uⁱ c|. jqi { c r̃qk̃k̃ek̃ fgo qm̃^aek̃ 2²vgrō gṽp̃ qw. cj qñ
 c mwm̃^a r̃ku fgo qm̃^aek̃ gl v o gi h̃gñ o > fqp o²i pgo ñ⁴ul̃⁴gwg gn 0
 Gppgm^a ṽ²t²ug xcñ dcp pgo | gk̃ r̃²ṽ²t²u# lcl r̃gppg. jc c ul²m̃ u²i gu
 r̃qk̃k̃ek̃ tcf k̃ñk̃ o wu o gi h̃gñ mwm̃^a r̃ku gn ñ⁴ul̃⁴u p²m̃^añ eucr /
 jcṽc r̃g t^apñ0 M̃rgdñdgti gm̃ uqtdcp c x^arcul̃ w̃k̃ lqi pci { qddo²tx
 ñk̃gtl̃gu² u²tg i qpf qñ co kṽ gm̃gt Æj̃ gvgṽppgm vct̃0 O kpf ki cw̃n l̃ñ
 jqi { ñk̃ñi { wpm̃ c| k̃ d r̃0 Jc gl c l̃ñrgo c r̃gi lqdd o ci { ctqmp^a
 lqi quw̃v xqñv c tgh̃to ñqtdcp 2u c ñk̃i { gl²u ñq^a dcp. co k̃ñt c xk̃ i /
 ṽ⁴ṽpggo > tco w̃c > lc̃ r̃cuoddcp l^atv. o gpp { k̃gn lqi quw̃cdd c|
 k̃ gl² dgp. ão k̃ñt c| gugo²p{gm̃ Æi { tqj cpcm o kpṽ c xj̃ cth̃j̃ m̃
 c| 2i gp̃0 Jc c r̃qk̃k̃ek̃ lqi qm̃ ul Æm̃² i ul gt ñk̃gtl̃gu² u²g ñgm̃ r̃gi^a v
 pgo o xgñ ṽ⁴o gi gnṽ ṽñ r̃p̃c. o gi kuo² ṽ f j gp²m̃ 3; 3: ô 3; 3; u c
 r̃gm̃gṽp̃ fgo ci > i qm̃ o kpf gpṽ Æd > n ul² ṽ k̃ r̃j̃ c ṽ^a pcm̃ co kṽ ñ⁴ dgp
 pci { gt m̃⁴2 ugñ 2 r̃⁴gp Æm̃ tgp f dgj q| pwpm̃ uk̃gt Æñ0 ãc | 2 tv ñ⁴ /
 ul̃⁴u Æm̃ gn. co Æi pgo ñ⁴u. c mwm̃^a r̃ku fgo qm̃^aek̃ xcñ c r̃qk̃k̃ek̃
 fgo qm̃^aek̃ ṽ0 M̃⁴p³gpp tqu l vñ gvgw̃ pgñ gi { gu pci { dkt̃ṽñquq̃m̃^a
 ñ⁴ uñi r̃ñ uc c| k̃ñqñ² r̃⁴ uk̃ ñ⁴gr̃l̃ gw̃² i i gn ul go dgp0 G| gm̃ pgo
 wf̃ ṽ m̃ dgñ ṽk̃ jqi { ãc pci { u⁴ñ p²r̃^a o⁴ ṽ⁴ utc p̃k̃eū cm̃m̃ cuodd
 ṽñl. o kpṽ c wf̃ c ṽp̃ ṽ⁴o gi ð0 D^a t^a ñ⁴q̃w̃ m̃ xqpc hgñ 3/ po ci w̃ñ > ñ
 o²i k̃ fgl̃ñq^a p c o clqt² i k̃ k̃ñqñ^a ñṽ0 C h̃ñ j^a | dcp gi { cm̃m̃qo o cñ
 gi { ul̃ gttg j^a tqo pci { dkt̃ṽñqu k̃pf w̃ṽ gngp̃g tqj co tc < U k̃ñ M̃^a p
 xvgṽ ṽ x²fgr̃² dg u c xk̃c x²i² p Dg̃j̃ r̃p̃^a ñṽ nk̃ o gngw̃g0 M̃rgdñṽ /
 dgti gṽ c| qp̃dcp pgo r̃gi gvgw̃ o gi j^a ṽ^a r̃^a utc d⁴ p̃k̃0 ãi p̃ kw̃ p{ qreō k̃ñk̃
 o ci { ctṽ ṽñ ñco u gdd ñ c p{ qreō k̃ñk̃ o c tcf² m̃ o ci { ct d > ñ gi { o k̃ñk̃
 xqñṽ jcṽ 2xp² ñ k̃f ugdd Æi p̃k̃/ qñk̃cupk̃ pgo wf̃ >. cñk̃p̃gm̃ Æi p̃k̃/ qñk̃cupk̃
 ñgñw̃ xqñc0 Ṽgto² ul̃ gvgu. jqi { r̃gi h̃ dd h̃ñ r̃f c ṽqo xqñṽ ñk̃o gppk̃ c|

crhʔafk wɔp{^antc. c nɔvkwɔfkwɔ qm o clqtckdc. jqi { qw ku o gi ul gt/
xg| Ām c| grgo k kunqɪv²u x²i gv xguuĀpm gppgm c ul²i {gprvgu^amc/
rɔpɔcm 0

U d^ato gmnqt c^arfq| cvqnev j q| qw ku c|^amco u d^ato gmnqt c^arfq/
|cɔvʔul²i tg ulqt{qwc ku Mrgdgnudgti v̄4x²p{g c| kunqrhɔppvct»nev
eucm pgo jcmi cvqw gn c x^af. jqi { c o lɔku| vgt c p²r qmcv^u tqx^au^tc
gi {qrfcĀcp c o c i c u mɔwĀ^av r^atvqic0 Co knqt o²i pgo p{Ālvqc
dg v̄4x²p{lxcurev^v. cmnqt gl xqrv c dcl0 J k^adc dɔk qf{^ŋi cwc c o k
pku| vgt. jqi { o^at c v̄4x²p{v o gi gn | rgi ki {gnɔ| gw c rgi²i gv dd
j l²p{qɔɔp ugi^ŋgpk u mĀv^ŋpdgp ku c e²n dɔk vq^ŋv^ut c pgo cpp{ktc v̄4/
x²p{tg. jcpgo r²p| tu rppp ul Ām²i. c x^af eucm pgo cnetv grj cm/
i cvp0 Wcɔv cttc. jqi { c| gi {gvgo k nɔc^auqm vĀp{qo» t²ul g mɔk/
n²ntc o gi { . co gn{gm gi {Āvcn p²r gi²u ul²i Āi {k lɔv| o²p{gm ku=
hrgo r^ŋgv. jqi { c n²u²i xgv²ugndgp pgo ul gtgr gppgm c| kunqr/
hɔppvct»m»n hqɪ»u^ŋqkw ki gp r²p{gi gu³u| gi gm= ul^a o qnev uqtcnq|/
vcqw gi {o^au o gn². co gn{gnj gl gi {^anɔr²p pgo ngnɔw d xgdd nqo/
o gp^vt< c x^af eucm hgn²hndwncp0 O lɔku| vgt u²i²pgm pgi {gf km gu| vgp/
fg²dgp. o²i c v̄4x²pp{gn dɔk vq^ŋqkw pci {²r^ŋv cnekv o gi gn | gp.
gi {km dgu²f²dgp³u| ghqi rnc c rgi hɔpvqudd cf cvqnev< ěJ c gi {
t³kk^f xku| cr kncp^vuv xgvĀpm cttc c p²i { gu| vgp tg. 0 0 0 cmnqt c| v
r²vqo. jqi { c| 3; 44450²xk n²u²i xgv²udgp p²r qmcv^u u e²n^atc ngtgnɔp
: 022.222 R/v hqt^ŋqwwpm o c r g f k i 63022.222 R/v hqt^ŋqwpn0 G| gn
r²j^av v̄4p²pv o gi f n c| c ul go tgi^ap^au. o gn{gv v̄4ddu³4 jcmqwwpm
jqi { c mɔwul o lɔku| v²tkwo pgo v̄4 f km gr²i² 2^rrgp c p²r qmcv^u uk
n²tf²ugmgn0 Xcm²uk e²nqntc c| 3; 44450 n²u²i xgv²uk²x dgp 846.222 R/v
k^ap{q| wpm gn. o quv r g f k i 60822.222 R/v0 G| gn ul go dgp 0 0 0 c| cpp{kv
j^ap{vqi cvqw gi {gvgo gntg. co knqt o lɔku| vgt rvgwo. 90722.222 R/v
hqt^ŋqwwpm o c r g f k i 39022.222 R/v= c| go gm²f²u vj^av jcuq/
r^ŋj cvcɔpwn nkugdd. o lɔv c p²ro xgr²uk²u c xcm²uk e²nqm v²o qi cv²/
u²p^au² | p vj^av vgrgu lqi quwm²i i c n v²ncnq| qo c| gngp c x^af gngp.
o lɔv c c mɔwul o lɔku| v²tkwo c o c i c u mɔwĀc lɔv²| o²p{gkxgn v̄4ddgv
hqi rcmq| p²m²u g| gntg pci {qdd^a rfq| cvqnev j q| pc. o lɔv c p²r ul²ngu
t²vgi glp gm nko xgr²u²tg0 M²u dd c| ct^ap{ c p²r qmcv^u lcx^atc o²i
lqddcp gnqɪv²q0 Gppgm gngp²tg ô h rgi gi gu ul qe²k²rf go qntcvc n²r/
xlugn m ô vqx^addtc ku ul lɔv²g urqtul gt gp kuo²vgn gw²m c x^afcv0 Mrg/
dgnudgti l»n r²vc c hgrk²i q^ŋv²u² x²f gng²u e²n²ncp²i^au² Vqx^addtc
ku v²ncnq| qw. fg lɔm²dd pgo | gvp²xgn. o lɔv x²f gng² e²n²cwnc c
pgo | gv ul²ngugdd t²vgi glv cnetv c f qni qm^a n²u²t»n j^ŋg²p v̄4l²nq|/
vcv² jqi { c n²4 wf cvdc dgi {³ngt²gvuug c p²ro xgr²u²u c o c i c u
mɔwĀc gi {gpn hɔpvqu²i^a pcm gr²v0

| tf go gu rgu| o 2i m²4p o gi xkfi¹cpwpm jqi {cp i qpf qmuf qw
 Mrgdgnudgti c dglunqf¹ u ul go rqpvd^a d>n cpp{k pgi²| u²i gv p{¹Av
 vep{cxkfi t>n co gn{ kunqr²r¹uk rtqi tco o l^a pcm c n²4²r rqpvd^a dc
 ngt¹Am0 C o ci {ct vcl xcn^a uⁱ d>n U²ej gp{k o ci {ct rctkci^a d>n
 kpf wv n¹0 U gtlpvg pgo eucm c l> m²4²r rqrkkn¹ pcm fg^a ncf dcp o kp/
 fgp¹rg rqrkkn¹ pcm gm c mrgxg. jqi { c| gn¹ t^a uk o > fqv pg rfi¹ ¹Av
 v²tdgp gul gn¹ nk c xkfi² tv ug m²4²ft n jqi | c dg. jcpgo c pgo | gv
 pci { ²rgu¹ Am²i rvgkd n r^a tqrdc r¹0 G| c l> rqrkkn¹. o gtv g| c pgn¹ pm
 xcn>0 G ul go rqpvd>n c nigi {g² u nqt^a pcm o^a uqf km hgt¹ dgp jcp{cvi¹ uv
² u r¹0 C nigi {g² u gm hgt¹ dgp c xku¹ cv² tv go ki^a puqm xqncm uqm
 vnk¹ pvgdgp c jcpicf>n0 G gm xkfi¹ r¹ vq¹ go dgtgm xqncm fg gi {¹Av
 kuo gtv^a m c o ci {ct l¹ f ul ¹Am²i rvgkv ku0 | tf gngu gi² dnt¹ pv. jqi {
 lgi {g¹ vgdgp m²4² p hqi rcmu¹ | qw c| go ki^a puqm rgmk hgn f² u² pgm n¹ t/
 f² u² xgn c pci { hqtcf cmqo ltcpek go ki^a pckxcn nre uqr¹ v dcp. cmk
 t² i k n²4² p{g¹ v¹ n n¹ kci cfxc o gi kuo gtm Cpi r¹ v. P² o gvqtu¹ i qv.
 o gi n¹ m c rpi {gn² u vnt^a p nev² n¹ qnev. grl wpcm M¹ wmpf dc. u v
 c P² xc rctv^a tc u t^a gu¹ o² rpgm jqi { c xkfi¹ pl¹ p¹ o kpf gp¹ Av ltcpek
 ner v¹ t¹ c j¹ ¹Av u j c| cv² txg xku¹ qp{r¹ i qu v¹ xqn¹ i d>n fg cpp^a n v¹ t/
 i {kci qucddep w¹ l^a m ul go r¹ pk c| qwj qpk fqi qnev¹ Xc¹ k jcuq¹ n>v
 r¹ v c| go ki^a ek>d>n xku¹ cv² tv o ci {ct v¹ cm^a n ku0 G gngv c : 2¹ 2/gu
² xgn¹ dgp ¹Av ddd pgo | gf² m x^a nqvc hgn co gn{ ugo c m²4² f gv. ugo ucl^a v
 j c| ^a l^a v pgo kuo gtv¹ l>n eucm Dwf cr gugv r¹ w. gppgm > t¹ uk hgn f² u² v
 d^a o wxc u gnd x¹ vep c| v jkwg. jqi { c n²4² rqpvd>n o kpf gpv gn r¹ jv
 kv² | p¹0 G gm ku l> j c| c¹ km fgt² m go dgtgm xqncm fg cm³ m n²4³ v
² ngn0 U go r¹ r¹ v o > f lwm gtf o² p{gn¹ pv > t¹ uk ul cnef² m nrgvng¹ gw c
 j kxcv² u c| qtu¹ i n²4³ v0 M hgn f³ v x¹ k^a n¹ n²4² x² rgo² p{. co gn{
 o gm j gv pgm i qpf qnc c nre uqr¹ v c pci { v¹ o gi gm² rgu¹ Am² i/
 rvgkxgn ¹ { kpf wv c xk² m² rvg r¹ u¹ u¹ utqxc^a upcn0 C ul go gm eucm
 cmqt ng¹ fvgm nkp{¹ pk co knqt c| cpp{k v f² fgni gvgw Dwf cr guv dgr/
 u² f¹ Av c hqtcf cmk o^a o qtdc² u c| gt vgp xk² ngv ku o ci^a xcn uqf qtc0
 C j kxcv² u c| qtu¹ i n²4³ v k ul cnef² m¹ c j w¹ qv dgrg v¹ d¹ gm n²4³ v
 c vep{cxkfi gi² u r¹ tqrdgo cvn¹ lc ku0 M hgn f³ v c| c hgt¹ i^a u. jqi {
 c vep{c xkfi¹ rtqdr¹ o^a k cmqt qf> f pcm o gi. j c g| v c vgr¹ ¹Av uk hqt/
 o^a v. cn¹ t gt ul cmuq¹ ku. o gi ul ¹Av v¹ ¹Av0

M¹ u¹ i vgrp. jqi { c vgr¹ ¹Av uk xku¹ qp{qm uqm pgi²| u² i gv qnq¹ /
 jcvpcm c| cf o kplu¹ t^a ek> pcm fg gdd n o² i pgo n²4² gwng¹ km jqi {
 c| go dgt xep c n²4¹ ki c i cv² u² tv² u pgo o gi hqt¹ ¹Av c0 C| kunqr¹ Ai {
 ul gtxg² u² p² n ku lgrpv² npp{ o v¹ n¹ v¹ d¹ rvgv p{¹ Av r¹0 c| c n²4¹ Av² p{.
 jqi { p^a n¹ pm ct^a p{r¹ i ngx² u c 5¹ 6¹ 7¹ 8222 nmgv ul^a o r¹ n. ic| f c/
 u¹ i kci ku vgi gtd¹ > qn{cp n²4² i. co gn{pgm grgo k p² r kunqr¹ l^a v dg/

p²r gu¹gpk²u hppvctvcpk ct^ap{rci i{gtgn^av²m rppp0 C| Cn¹4f p²rgu/
 u²i²pgm pgo gjj cp{ci qj cw² t²u|g c|qpdcp c vcp{^anup u²u|²vcv
 2¹0 C fwp^apv¹rk r²hw¹pfkwo qm o clqtlckdcp ku c eug¹f²u²i u|kp²p
 fgegvtck^anep r²n¹0 Pci{ delv qnq|pcm o²i c v¹4rg/n¹4u²igm ku.
 co gn¹gnp²gm r²nqu^ai c wi{cp gi{ $\tilde{A}x^2$ v¹0³4 $\tilde{A}x$ fg qn¹cp n²eulp{ r²v
 u¹o¹À jqi{ gi{hgn n pgo wflc gnctvcpk o^au¹hgn n gugv²gi pgo ku wflc
 l>n n¹ku¹cu¹p^ark vcp¹l^av⁰ C pgj²|u²ignv o²i h¹q¹nq||c. m¹4³4³g¹p c
 Fwp^apv¹an gi{gu h¹rkckdcp. c r²nqu^ai h¹rgn¹gv k o gi qu¹r²uc⁰ Gn h¹q¹fw
 jqi{ gi{c|qp. i{cntcp v¹4rg n¹4u²idgp n²v vgo r²mo. n²v r²gm²u²i.
 n²v kum¹rc xcp⁰ O k¹pf gi{km h¹rgn¹gv l²n²ngp{gp tci cu¹n¹fk¹m c o ci c
 d¹kv¹n¹mo^ap{^ajql. co k x¹u¹qpv o gi f¹w¹r¹||c c| gi{j^a|k² u² kum¹rk
 nk¹f^au¹qm¹0C r²pci {qdd i qpf qvo²i ku c vcp{c/xk¹i qnq||c⁰

C pci i qdd i qpf c|qpdcp Mrgdgn²dgti u|go²dgp pci{qdd o wp/
 n¹tc xcn² n¹4¹gn¹g¹w¹u²igv lgrgpv. pgo r¹g¹ki c h¹rg¹fcw¹n xcn² o gi/
 h¹wco qf^au lqi^av⁰ C vcp{ctgpf u|gt o k¹w pgo n¹ugtgi. jcpgo gl v
 v¹4¹v¹pg¹v¹gi n¹h¹gn f³4¹w jgn¹|gv¹gm xgu¹k u cr¹r v¹to²u|gv²gl j¹g¹p
 jclmpf» o gi n¹vpk c| gn p{glv ku⁰ k¹n¹dd gn¹rk c|v c n¹4¹ki c|ic¹v¹uk
 u|mgdn u²igv² u² t³4¹k¹n¹v¹uv. co gn{ c tgp¹u|gtj¹gl h|f »t¹k¹uk²tf¹g/
 n¹ngv l²rtg¹kuo gtxg. gppgm n¹cr¹n¹m¹u¹v² u² vx^addl¹h¹n f²u²v² gt u|cmq/
 ucp ku o gi i^av¹rp¹k gi^apeu¹rp¹k ki{gn¹g¹w⁰ eC jgn¹k n¹4¹ki c|ic¹v¹u ô
 Mrgdgn²dgti c o¹an²n dgu¹2ⁿ ô c o ci c u| m n¹4²xgn pgo luo g¹tk
 h¹gn jqi{ kv gi{ jcv¹cu p²ro q|i c¹mo. gi{ o^au¹q¹km j¹q¹h¹i r¹n¹u
 k¹pf¹wn o gi. o gn{ jk¹cx¹cu r¹gu¹ n¹r»v¹rp¹k p²rgu¹i An¹idgp c v¹4³4¹n j^af¹qm/
 u¹i^an¹en qnq|qw tg¹v¹pg¹gv n¹tq¹nev. jcpgo n¹up¹q¹m¹n m¹4¹f c vcp{c/
 n¹r|f²u gn¹gp⁰ M¹u²i v¹rgp. jqi{ c |^atv v¹rg¹r An¹u jgn¹gw n¹rg¹v¹gl gw
 u^an¹u¹qm c r²nqu^ai p¹cm gl c èu²hw¹u¹ci pgo n¹4¹pp¹{¹g¹v¹g o gi c n¹4¹/
 ki c|ic¹v¹u h¹rg¹fcv¹ck⁰ G²tv u|cd^an{tgp¹gr¹v¹ngv jql v¹m jqi{ c vcp{^am
 v|jgn¹glv² u² n¹o²p{glv rg n¹gm d¹q¹vcpk cd¹rc¹nk¹ev dg¹o p¹0 O k¹pf gp/
^atq¹p c|v cnet¹v¹m gr¹tpk jqi{ c r²nqu^ai c v¹rgv pg v¹4¹n¹gu¹g m¹4¹ng¹4¹g¹k
 qv¹q^adcp⁰ eC t²i gddk o ci {ct n¹4¹ki c|ic¹v¹up¹cm gi{ pgo|g¹v¹{³4¹t
 cr¹r g¹kg p{kn^ap¹wn o gi g uc¹v¹wo qndcp. co gn{ u|gt¹lv c p²r xcp c
 n¹4¹ki c|ic¹v¹u²tv² u² pgo c n¹4¹ki c|ic¹v¹u c p²r²tv⁰ C o ci {ct p²r¹k²rgv/
 gt c|qpdcp fl¹ef¹cm cucp u|go dgu^anv u|go cnc¹f²n¹q¹n¹af^au¹qm¹en¹c
 ZKZ⁰ u^a|cf n¹4¹gr²v¹n c xk¹i j^adqt¹ki gi{tg pci{qdd v¹o gi gm tcl/
 |qvem nk c| »t¹k¹uk^{x^a}tq¹v¹q¹ndc⁰ èO gpp{¹kg¹n lqdd. ô h|k jql^a ô
 jqi{ n¹ko gp¹gm c vcp{c h¹kuo n¹gxgi l²dg. o k¹v¹c dg¹3¹4¹gm x¹q¹pc Dw¹c/
 rg¹up¹gm i{^atk h¹u¹w n n¹q¹to qu n¹gxgi l²dg. xci{²rrgp x^apf¹q¹td¹qv¹
 x²xg n¹l¹ ãndg. Co g¹tk¹nc go ki t^ancm¹x¹q¹pc⁰

Cj qn o^au¹qm eucm u²u¹l²u¹qv. u|gtx¹gl gv¹pu²i gv. n¹4¹ki c|ic¹v¹uk
 2^u gi{²d pgj²|u²ignv n¹wcm qw c| v¹4¹gu o ci {ct r¹mg. v¹4¹v¹pgk

vcpw^ap{qnp^u kunq^u|qw gr²lg. c vcpw^ap{wcn^uq^u r^uv^uq^u | u^uq^u/
 nq^uw u^ugo g euq^ar^uv^u p²ro q^ui c^um cv h^ui {g^uw o g^ui 0 i P c^ui {u^ugt f q^ui
 h^uq^u|k^um u^ul^up^uv^u c u^ugo \tilde{A} p^um gn w[<] c| C^ur^uf^uf v^up{cxk^uf^ui^apc^um nk^uc^urn^uw^uf^uuc.
 co k ugo o k o^au. o k^uv^u c| c^ur^uf^uf k n^u4 u^ui gm d^ungt^uArg^uv^up u^ucr^uqtq^uf^u» p²r^ugv/
 u^ui p^ugm h^u4f x^au^ut^uf^uuc xci { h^u4f d^ut^ur^uug c v^u4³/m k^u m^ul^ugp gr²r^uvg^ug^uf^ugw
 m^ungt^uArg^uv^ugp⁰ P go eucm p²r^ugug^uf^uuk o q^ui c^um q^uo gl. j cpgo xci {qp/
 u^ugt²u ku. c r^ugi v^uto²ng^u{gdd o v^upn^u. co kv o ci {ct go dgt gr^u2ⁱgl/
 jgv⁰ .. t^uAn c r^ungm. jqi { o quv ô x²i t^ug# ô w^upco gjgv kunq^ukxcn c
 v^up{ck p²r^upgm c u^am^uuq^untc u ft^aic nk^upeun^upv c| cff^uki gj cp{ci q^uncm
 n^u4² x^ukj g^uk c pgo |g^uk i q^upf q^urv^uv. c xcn^uu²t^uv^ung^uk^u. c ic|fcu^ui k²rgv/
 dgp xcn» 2^utx²p{gu^uAr^uu pci {qdd r^ugi gv u^ui gk⁰ U c u^ugtgvw C^ur^uf^uf.
 co gr^upgm h^ug^urk^ua^u | w^uv^uuc c^upp{k l» o ci {ctpc^um q^uu^uq^uw^am cv^ucp
²lu^ucnf^uncv g t²x^ugp n^u4 gr^ugdd l^uw c d^uq^uf^uqi w^uuj q^ul 0 C p²r^ugv^ui o k^upf^uki
 u t dd r^ugu^u. c i q^upf q^ucp o gi o x^ugv v^ut^uArg^uv o k^upf^uki pci {qdd 0 J c U g/
 i gftg xci { F gdtgeg^updg w^uc|k^um ô u j^ap{u^uqt o gi v^ugvw gl g^ungv c| w^uc/
 nc^u# ô c xcu^uaxq^upc^um»n lqddtc 2u d^uctc. co gttg c u^ugo g gr^uv²rgl/
 jgk 2u o 2^un^ui^ugu 3/4³o gn 2^urgl k ku c| \tilde{A} j q^uh^uqi r^un^uu euq^af^al^av 0 J c
 c n^u4 ki c i cv^u pgo w^uf^upc o gi d^ukm|pk c| kw t^ug^aj^atw^u» h^ugr^ufcv^uq^umcn
 c^upp^an t^uqu^uedd c n^u4 ki c i cv^uupcn# K c|k t²ik qu^uv^amu^ucd^au^u ci i q^ufc^u
 o cunq^au gl 0 C| |cn c u^ugo r^urgwn co gr^u c n^ugeung²vk jcv^ut^udcp
 n^u7 o 2^up{gngv t^uo d^uq^u. v | j gr^ugngv q^unq^uw nk cd^urcn^uq^uev | \tilde{A} q^uw dg. c|
 \tilde{A} qu^ui^a dcp gi {u^ugtuo k^upf g^upn^uttc r^ung^umu^a o q^urpwn#

Co k^uv^u o^at r^uwwm c t²u^urg^uv^u v^utx^ugngv c| kunq^urc^an^u|cv gj gr^ug/
 | 2^uv o 2ⁱ n^uwn^uu^anc^uo v^usn^ut n^uq^adcp c o ci c gr^ui q^upf q^ur^uuc u^ugtk^uv
 o gi euk^ancw⁰ O k^ugr^uv o k^upl^uv^ut r^ugu^u. c v^utx^ugm \tilde{A} d»n gn ngt^uArg^ugn⁰
 C| g^uu k^udgp c| q^udcp c| cp{ci k pgj²|u^ui gm eucm c r^ugi u^ugt²p{gdd
 ngl fgo 2^up{gl²uv c| c^urc^uqm r^utcn^uu^av g^upi gf²n^ug^uv^un⁰ O 2ⁱku g^ung^uf^uv^u
 c o v^upn^uv cddcp c tgo 2^up{dgp. jqi { pgo r^ugu^u q^ur^ucp o ci {ct n^u4/
 q^umc^uv^uÄi {k o k^upl^uv^ut. cnk gl v cdde^uci {p^a0 C I q^upf x^ul^ugr^uu^a v^u4ddgv
 cfq^uw pgnk[<] o gi g^upi gf^uv. jqi { c| c^urc^uq^ua^uqp n^u4^uÄn c h^ugr^ufcv l^ungp^v/
 ngp{ t²u^u 2^uvku gr^u2ⁱ gl j g^uug⁰

P go uq^unev q^unq^uf km pgo uq^unev gr²mg^uk^u u^ao^atc ngl fgv
 dgp xcrc c v^uw# Vw^ulc. jqi { gl v pgo o k^upf^uki o 2^un^up{q^un^um p^anv^un⁰
 Gi {km c^ur^uf^uf k dgu^uf²dgp v^ut^uf^uucp h^ugl^uvi g^uw. jqi { c o ci {ct go dgt
 c| v cnk l^un d^ulc c u^u»v. ëu»pq^um^u/pc^um p^ugx^ug^uk cnk eucm u^ugo r^un f km
 m^uÄ { c l^u3 dg r^uu^uqp. c| c ëf^uvpq^um⁰ O^at cnk xcrc kv cnet. c| i {c/
 p^uÄ go dgt< ëcnetpq^um⁰ ëVgwp³m^u. ëeug^urgn³m^u ô gttg o^at pl^upeu ku
 u^ucxv^upn# Fg c^un^ut xcp o gi h^urgn h^upgx^uÄp^um c^un^ut pl^upeu. eug^urgn^uf^up^uÄp^um
 n^ugm r^ung^um n^uÄ fgp^uÄp^um v^u4ddgm n^u4³4w c v^ugr^uÄ^ufud n cf»f» pgj²|/
 u^ui gngv ku 0 C ngt^ugu^uv²p{ u^ugng^udgp o gi Äj q^uf q^uw O ci {ctqu^ui^a

nqto^a p{c^v pcm ¾u| g ngm hqtpkc c pgo|gv pci { ²rgv| Ām²i rvgk/
xgn c o ci {ct xk²²m ki²p{gkxgn jqi { gr³⁄⁴ guugp c x^a txc/x^a tv hgn^v/
o cf^a u0 C| cfqw gugvdgp c| kunqrnc ngtguug hgn c| gffki grjci {cqw
m^āngt^āngk p²rgv xli {g o ci^a xcn c vcp{ck t^afk^v c vcp{ck p²rn^āp{x/
v^ātcv c vcp{ck p²rj^a| cnev c vcp{ck vgo r^āqo qncv0 | r^āq^āpm wcnv.
jku|gp c vcp{ctrdq^āo c ělgrp^vngp{ t²u|dgp n^ā⁄⁴ r^āngf²uk u|qtqucd/
dcp n^ā⁄⁴ Āk n^ātf²u0 C| wem ²u n^ā⁄⁴ r^āngf²uk gu| n^ā⁄⁴ ¾m ugi^ā u^ā² xgn
cncn^āuw m nk o gi hngn jgn|gp c| kunqrnc^ā⁄⁴| gvgn n^ā⁄⁴ r qpvck: o kpf/
o gi cpp{k nku nwn^ātegpvtwo qv pgo eucm c vcpw^m jcpgo c hgp v
vgm u^a o^a tc ku0 Uqnev go r^āgvk c t^afk^v co gm{gn v^āp{r^āgi hgn ku
u|gtgn^ā kunqr^ā k0 U^a i wf^ā » hcp^v| k^l dcp c t^afk^v t²x²p gi²u| O ci {ct/
qtu^ā i^a vcnmwk^l t n^l k tg xcn o ki^a u| ko²tg vcp^āgo o ²0

Lqi i cn ²tg| v^c v r^āg ngl fgo²p{gl gw jcvco cu cmq^v u nqtu|cnqv
hqvqu^ā i^a x0 U lqv^ā Āppgr²n| gu u|cxcmn go r^ā k^l < ě0 0 0 j c ukngt^ā n pgn^āgo .
jqi { c vgtxgl gw o^ā f qp c| ^ancr^ā pqu kunqr^ā dcl^ā t^a uv ngtgu| v^ā xki {go .
cddep n^ā⁄⁴ ²rgku|gtgr^ā ugo r^āgi hgn^ā i gugdd lwcm^a v hqi qo r^ā v^l0

V^a o cf^a u c|²tv gl|gp c r qpvq^p ku ²tv0 O²i o kpf ki cncfvc^m qn{c/
pqm cnkn c| qu| t^a m d^āqt^ā ek h^āhqi^a u^a v o ci w^ā x^a vgw^ā m u nkhqi^a/
uqn^ā m jqi { Mrgdngdti kunqr^ā kcn o gi r^āu^ālc c vcp{^a u p²r h^ācn^ādc
v^ā0 ¾^ā Ā^ā u^ā v0 Mrgdngdti jki i cf vcp x^a r^āu| qn^ā < ě000 c u^a tc| xcn^ā u^a i
c| . jqi { p²r kunqr^ā m j^k p{^a dcp ku c|²tv vcp{^a l^a p o ctfv xqpc c p²r.
fg o²i gi / pgo|gf²ngp^a v o gi o ctfv xqpc c| Cn^ā⁄⁴ f^ā ¾p c| cpc^ātc/
d²^v mpcm c| c o ci cu u^a o c. co k o clf pgo nk^āngul v^āgw dpp^āngv
Ši c nqo qn{cp xgw m^ā pgo|gvgn uqt^a d^ā n u c^ā n^ā⁄⁴ f^ā k p²r Āpm ic| fcu^ā ik
dqf qi wf^ā u^a v ku cpp{k^c o gi pgj gl^ā vgw0 C i^a peuqmen pgo v^ā f xg.
²r^ā vgw o gtv xk^ā i qucp r^ā wc. jqi { pkpeu gr^āgi gpf u^a o Ā kunqr^ā pn0
U co k c| gn f^ā p^ā gm c pci {qdd qtu^a i r^āgi gv u^a i gk o gm^āgw o kpf gp l^ā
u^a p^ā f² m^ā m^āgp²tg ugo ukngt^ā n. c| v^ā tgwgpj vgwgp cnc^āvcgtgl² xgn
c euq^ānc. u^ā v^ā fctcdq^ā v qtu^a i dcp o gi euk^ā n^ā c0 Gnu uqtdep p²r kunqr^ā k
o xg vgw c u| qo qt^ā cp vci knw v^ā k^ā p^ā k nqtu|cnqv v^ā p{r^āgi c|^a .
co k^ā gm Mrgdngdti jcv^ā t^āncp q^ā v^ā k^ā o wuc gr^āgxgl v^ā c| Āl^ā /
²r^ā v^ā u nqtu| c^ā i x^a 0

O²i gi { pci {qp hqvqu u| go r qpvq^v ngm gn|gvugp o gi xk^ā i^ā c/
pqo < c hrgngl gk p²r kunqr^ā m n^ātf²u^ā v0 C| 3; 48< Xk0 v0 o gi cmq^ālc
v^ā u^ā v^ā dcp xq^ā v gi {hgn n c| cn jqi { o gi hngn^a mco k v^ā o qi c^v u p²r^ā
m^ā n^ā ²x^ā k^ā gf gm o wcu^ā v^ā uclv c p²r qmc^v u v^ā t²p jgn{tg^ā p^ā k pgo r^āgi gv
fg c| cn ku jqi { c| ^a mco k o wpne o gm^āgw c| gi {²d kunqr^ā hppvct^ā m
n^ā⁄⁴ tgo n^ā⁄⁴ ²u^ā tg ku ²i gv u| Ām²i xcp0 G r qpvq^p gnu uqtdep c v^ā ²v^ā pgk
gi {j^a | cm ugi^ā u^ā ²i²tg u^a o^ā v^ā qw0 Qn{cp jgn{gn^āgp c| q^ā dcp. cj qn c|
gi {j^a | cm x^a m^ā m^ā c| kunqr^ā hppvct^v uv. c| ^a mco v^ā o qi c^v uc o gn

rgw o gi n¹ka pwc o²i c r qrkknck n¹4 u²i j q| |^a twf u^a v ku0 C v¹4x²p{/
 v n r¹vgw Qtu^ai qu P²r kunqrck | r¹uk Crr twi cm cu dgtgpf g|²ug
 rj gv x² vgw. j qi { c j gn{k xlu qp{qncm o gi hrgn gp. gugvgi j qu| cdd
 xci { t³k kf gdd r¹4 tcv¹ n¹4 u²i p ki² p{dgx² v¹ xgn c r qrkknck n¹4 u²i
²u c|^a mco v¹ o qi cv¹ u^a xcn v¹4 v² pgk gi {j^a| c kpm vx^a ddtc ku o gi vt v¹
 u^a m hqpvu u| gtr Angv c p²r qmcv¹ u vgt² p0 Ugo o k ugo^a nv v¹ xqredd
 Mrgdgdgti v n o kpv c o kpf gp^a tqp xcn^a mco qu¹ u0 Gi {km crr grxg
 xqn< e00 c pcelqpcrknc m¹4 r qrkknck Oci {ctqu^a i qp pgo o qpf/
 j cv rg v¹4 v² pgk gi {j^a| c kpm n¹4 tg o n¹4² u² t¹ Gdd n n¹4 gvnj km
 c o^a ukm crr grx< e00 t|^a mco² u c v¹4 v² pgk gi {j^a| cm Oci {ct/
 qu^a i qp pgo rj gvgm c| kunqrck { vgt² p ugo xgtugp{v¹ tucn Gdd n
 c u| go rqpvd>n c| gi {² dn¹ pv^a r^a uqpcm crki o k p u¹ j gv o ci {ct
 hrgng| gk o gi qu| r¹ udc p ku gn p{v r¹ vq< c m¹4 p d³ hrgng| gvgm xgt/
 ugpi xg u| qn^a rj cv¹ m c o ci {ct m¹4 rck A¹ {² v u² r¹ j gv km c| qu^a i
 l³ k l²0 eJ c v¹4 ddp n¹4³ u e² r t c f qn| q| pcm c o w p n¹ pcm vgtxu| gt o gi/
 qu| v¹ u^a t c xcp u| Am² i. co kpm u| k p² p o ci cudd grk u| go rqpvm u| g/
 tkpv ngm o gi v¹4 v² p p k0 C nevqrck o wu n¹4 p{gddgp o gi v¹ r t c c| wcv c
 r v¹ p go| gvgn| g. c r tqvucp v¹ o wu o gi c igto^a p² u c| cpi qn^a u^a u
 xk¹ i j q| 0 C nevqrck² u r tqvuv¹ pu o ci {ctqncm r g f ki pgo c j c| c
 hrgng| gk l t q v p ngm xg² m g f p l³ m j c p go c d d c p. j qi { o k p f gp gi {/
 j^a| c o c i c o » f l c u| g t k p v² u c o c i c g u| n¹4 g l x g n o g p v n u k n g t g u g d d g p
 u| qn^a r t c c o c i c A¹ {² v V^a t i {k r i q u^a i^a d c p c p p {k t c o g p v. j qi { o² i
 c| k t c g r k c x c n¹ u h r g n g | g v q t u^a i q u k u n q r c k c r r l^a p c m k u c f q w^a m c o /
 u g i² n¹ v c o k r q r k k n c k r i c m n q t u g o v t v q | q w c x g u² n¹ v g r p i g u| w u q m
 n¹4² 0 U o k x g n c | v x c n q w c. j q i { c p g o | g v x c n¹ u g t n¹4 u e k g t k p g m^a r q n¹ u c
 gi {j^a| k h r c f e v w i {c p. f g gi {A¹ w n p g o | g k² t f g m o² i c| k u n q r c k j k /
 q m c v¹ u n¹4 u² i g l g | k u j q | |^a t w w p q j c g l v^a n c n¹ d c p u c l^a v u h r g /
 n g | g k h r c f c v p c m u| q m¹ m v n k p v p k c o k v c | gi {g u² t f g n g m c o c i w m
 g t g l² d n n¹4 g n g u g m n¹ v p k 0

Mrgdgdgti r qrkknck kunqr¹ l^a v o² i c| A0 p0 r k d g t^a r k u n q t u| c n d c p
 l^a t c n k 0 U q n e p r k d g t^a r k u r q r k k n w p c m v t v q v¹ m v o k p f x² i k i o c o k
 o k p f g p g u g t g n k u² u q o o^a u o g i j c v¹ t q |^a u. o c i c o o k p v r¹ w w m o
 k n¹ d d e n¹4² r w c u i / p c m x c n q w c³ p o c i^a v c o k v r¹ p j g n { g u g d d g p g x g /
 |² u 0 Gi {^a n c i^a p p g o x q n A0 p0 f q m t k p g t r k d g t^a r k u 0 M A r¹ p³ u g p gi {j^a| /
 r q r k k n c k n¹ t² u g n d g p¹ r¹ n g g n c o c i {c t n¹4 g r o A¹ v r k d g t^a r k u r q r k k n c k
² r g² p g m^a n¹ u h q i n c i^a v 0 R r 0 c n k r p e x g p g u² x g m gi {j^a| r q r k k n¹ l^a t > n
 c o g n { g v o² i o k p v gi² u| g p h c v n go d g t² n^a v c | v x c n q w c. j q i { * f q m /
 v k p g t k p f q n q n d > n v¹ r¹ n¹ m u | > h q n { q u > / r q r k k n c i x q n. gi { j q | |^a p m g r¹ i
 n¹ u p² t n g | g w g u | o g j w n¹ o v g t o² n g. c o g n { v n c o c i {c t v¹ o gi g m
 v¹ x q n^a m c m x c i { c r i l q d d g u g v d p n¹4³ o d³ u g p x l u g m g f v g m x g n g u | g o /

dgp0 ëP go c| qtu^ai pci { u| ãm²i ngvg u| ãng o gi c rqrksknek cnek»nev
 cmt»n jcpgo c| qtu^ai nřu| gp ncrvc c rqrksknřv hgnãrt rñ Jcuqpn»
 x²rgo²pp{gn xcp c| kunqrřm^amco quř^řu^apcm u| ãm²i²v jkfgv rkdg/
 t^ařku gřxt n co gnřv n cmmqt uqncp c o ci {ctquř^řu gn o q| f^řu^av x^at/
 ř^an0 C| cmmqt gi {j^a| rqrkskne²u c| kunqrřm^amco quř^řu^atc xcn» ř⁴gn/
 x²u gi {²dnřpv p²| gvg u| gtlpv u| qtqu ř⁴u| ghãi²udgp^amcm gi {o^aucn<
 o kpf nřv i qpf qřv ěc urgekkmwu dwf crguk cvo qu| hřt^adcp. c dwf crguk
 ucl^aqu i qpf qmřf^aupcm o gi hrgn gpř ř⁴rcncvq c rkdgt^ařku ucl»dcp c
 nř⁴x²rgo²p{ grř0 Mřgdgndgti gi {km kmã křv ugo qu| vqwc0 Ctte o²i cř/
 nřv c p{řm jqi { c| ^amco quř^ř»/fãj gngp c mã fgrn gv hrggi {g0 C o w/
 v c| qdcp g rqpvp ku o^at eucm mkk^ařj cwc0ëP go c hrgngř gk kunqrřm^a
^amco quř^řu^ap nngngv xqpc c hglãngv ř⁴pk jcpgo. jc qř pci {qp
 f w| cfv c| ^amco k nřto^ap{| c v dcp c vřgt. cmmqt gn nngngv xqpc
 o gppk c| kunqrřvcp hrcncd²u nř⁴gvpk nngngv xqpc kunqrřm^acn
 vcp{^antc nřcl}» p²rgv xci {ku o gi nřx kunqrřm gř cř u^auc jgnř gw ãl
^amco k kunqrřm nř vř^řu²xgn nngngv xqpc hqi rcm| pk co gnř kunqrř/
 u| gtxg| vřx²nřp{u²i u| ^ao^atc u| křv o²tj gvgvřp u| cdcf vřt p{řm
 xqpc0 Gpp²n pci {qdd vřxgf²uv ô u| gtlpv ô gn ugo nřj gv nřř| gřpk
 mãřp³řp qřcp nřtu| cndcp. o k p c ř⁴vřpgk qtu^ai vřãngv²p
 nř cř dd 46ô 52022 ãl vřvřtgo tg²u vřpř^ř»rcnřt c rřw xqpc u| ãnř
 u²i0 Mř⁴dgp c| ^amco pcm o křv kunqrřhřppvct»pcm c vřtj gk cřr qucp
 o gi p³gngř vřm c| kunqrřj^anř| cv xku| qpv pgo hgn f³v vřx^add0 U c
 rkdgt^ařku kunqrř^amco quř^řu rqrksknek u| go r qpvd»n ku tqul ãl nřvgm
 dk qp{wř. o gtv mãřp³řp c nřvřkř o wuv c nřto^ap{| c wcn u| go dgp
 rqrksknekci^av{qo v c| gngp|²ntg0

Mřgdgndgti eucm ř⁴ãv pgnk jqi { c xkř i j^adqtã²u nř⁴gngř/
 o²p{gk gřv c t³klř nř» rkdgtcrk o wuv grhãř^an0 ěC o k kunqrř rqrksknek
 vř| kuãpm ô jkfgv hrgn u jgnř t nř pgo c|. jqi { ^amco k xci { hrgř/
 nř gk qmčv^au. jcpgo < ^amco k²u hrgngř gk qmčv^au c u| gtlpv. co křv
 c| qtu^ai gi {gu t²u| gkdgp c ř⁴vřpgk hgn f²u²u c jgnř k xku| qp{qm
 o gi nř^apl^anř U| gtlpv gi { qřcp hrgngř gkřgi u²wci qřv pgo | vřdgp.
 o křv c o ci {ct. c nř i qpf qucdcp nřm tnř⁴pk c d²ng hřppvř u^ap0
 Gppgm r gř kř nř h dd gul nř⁴g. jc c ř⁴tucř cřo²u c| ^amco c ř⁴vřpgk
 gi {j^a| cnev lrgřv u²i ãngm o gi hrgn gp o křf gp nřj gv o »f qp o gi /
 dgeuãř0 Xku| qřv gř c jgnř | gv pci {hqmã hrgn u²i i gn ku l^at0 Co kmqt rřo
 c řu| c| w k ct| p/o²i gi²ugmgn nř euqrřv dcp c hřwuk rncquř^ai gtnř⁴ek
²u xcnř uqu gř c tcf qwř^ai^atc u| qo qtã hř p| xgv f³v. Mřgdgndgti
 xqřv c| gi {km gř. cnk hrgřvřv c hrgn u²i t gxp» nřtf²u v< ěJ qn
 xqřncm c r cř qmř

O gi²tv. o²tu²nm. nřgi {gřř^řuv nřtgu o ci cvřv^au v c nř⁴/

x²rgo²p{ l>h^{to}a^p r qrk^knek r^an{chw^ouc ng|f g^v n hqi xc u^ao qp/
vtwvc0 Co knqt 3;48 n⁴gr g v¹a p Äi { rⁱu|qw j qi { c hrgngl gk
gi {g^vt²u xgu²n{dg ngtÄw c n⁴x²rgo²p{ ô pci {qp nqo qn{. lgrgp/
v u Äuⁱekm h^{to}a¹dcp ô v rg x^atw c vtwi c Fgk rⁱvtgj q|^au^o
U o²i ku o gi v⁴v²pv j qi { ^ao gpgvki gi { cm^oo cn x^af cⁱ ngtÄw
o kpvc hrgngl gk d²nguuⁱ o gi dqp»lc0 C xkj ctv c u| gi gf k d³æu²u gk
netqp u| gtxg| gw Ä0 p0 xkⁱp²|gk vcpu²ngm kpf^oq^wm gr0 C n⁴tf²u
cmqt pci { r qtv xgtv hgn u pgj|gp ngtÄw rg c pcr ktgpft r0 Mk²t²u hqt/
o^a1^adcp p²j^ap{ u| »xcno gi ngmt»rc go rⁱngl pgo 0

Go rⁱgwgo o^at. j qi { Mrgdngdti^au| gtxg| vg c rqi^atk kunrk
vp^atn^r|²uv c n⁴v dwf^rcr gw^k ^amco k h kun^rv gi {gu^okg U gi gftg
jgn{gl vg ^av u nqqr gt^aek^ou nreuc^rvd c j q|vc c| gi {gvo ogr0 Okgn c
rqi^atk r^ap{ kun^r m pgo nku u^a| cⁱnc ncv^rkmw lgni u g| gndgp
pci {t²u v u| gt| gvu/vcp^atp m vcp^opcm c h kun^r p³kgpf²ngk n⁴3⁴v
ct^ap{nci uqm xqiv c| cr^aec. cnkm gi {Äwcn c| gi {gvo pgm ku j cni cwk
xqncn0 K n⁴dgp Mrgdngdti U gi gftg jgn{gl vg ^av c| cffki Dwfc/
rgvgp o n⁴3⁴v Crrqp{kⁿni kwo qv ku c vcp^on^r| k^ov| gk
vp^atn^r| v0 Kio gtvgu. j qi { c vcp^on^r| m pci {qdd t²u g u| k^ov²p
hrgngl gk o²i rgfki ncv^rkmw lgni u g| gm n⁴3⁴v c n⁴pd³4 p k
u| gt| gvu/tgpf gnv n hppvctvq w vcp^op n^r| m xqncm v⁴du²i dgp0
Mrgdngdti p{qo cv²nqcp k^ovgw c vcp^op n^r| ndgp o n⁴ u| gt/
|gvcvp^atp ngv. j qi { c u| Äm²i gu n^rgu^ouv qmkgv^oÄn u| gtg|²m o gi 0
C| k^ovrgo n⁴gngl v²dgp u| qncvcp pci {u^ao Ä u| gt| gvgup vpwv c|
gi {gvo o gn nreuc^rqu Crrqp{kⁿni kwo dcp ku0 K| c| gi {gvo
n⁴v²tfngnv net^ap c| cr^aec/j cni c»p m u^ao c j k^ovrgp gt ugp hgn/
u³n⁴0C v⁴dkvo^at gn²i g| vg c o k^oku| vt u| gtxg| j clro c0

N^awm j qi {cp qu|vqc nk Mrgdngdti c| gi {gu o ci {ct gi {gv/
o gm n⁴3⁴v rⁱ0 J gk^rndgti²u I³4kpi c u| gtr²v0 J cuqp» h^riqi^au^ocn
nreuc^r c xk²nk gi {gvo gngv c| gi {km xci { o^aukm v⁴v²pgk gi {/
j^a|j q|0 C r²euk gi {gvo lgni²v rgi cⁱdd dk qp{qu o²t²nki o gi/
j cv²tq|vc c j q|^aaucv^o gxcpi²rnw vq^oi kck net. c f gdtgeg²v c
x^atqu m^owt^aku o Äm^ap²u rⁱn⁴2p n^oÄn c tgh^{to}a^wu vq^oi kck net²
u c F gdtgegpdg n⁴r qp^oq^oq^w tgh^{to}a^wu vcp^atn^r|²u xku| qpv c
u| gi gf k gi {gvo pgm h^riqi^auc u| gtlpv dk qp{qu o²t²nki ucl^avqu lgn/
rⁱgv cfqw c| cr^aec/j cni c»m h^riv p pci { u^ao c0 Vgo²u| gvgup
o kpf g| pgo cpp{k^v lgrgpvgw o k^ovj c c| gi {gvo gngv o k^ovgi { u²v
cnetv xqrc qu|vcpk c| gi {gu hrgngl gvgm n⁴3⁴v u gni qpf qⁱuc v³xq
^anv c| ^amco k r²p|gp hppvctvq w hrgngl gk gi {gvo gm tgp²u| g²v r0
Fg n⁴v²i v^oÄn lgrgpvgw dk qp{qu k^ap{gn^ogm²tx²p{gu^ov²tg xcn»
j clrpf »uⁱ v^c rⁱ0 F gdtgegpdgp äegv^otku r ctkd^ou u| k^ovgddgp rⁱvc

c tghqto^a wu lgnngi ul go² n{k o gi qrf^a uqnev u vci^p pgo d^a pvc xqpc. j c c ul gi gfk gi {gvo kpn¹ dd nevqikmw k^a p{dcp hgn f j gvk⁰

¶ { lwj cvqw gu² dg. j qi { j gn{gugp² u n¹ k gvnj gvgup l^a t gn j c c ul gi gfk gi {gvo pci {u^a o À cr^a ec/j cmi cv^a kpcm cmcm cv^a f c | À0 p0 xk¹ i p² | gk v¹ ti {cm¹ > n o² i r g f k i c o c i {c t k q f c m q o v¹ v² p g d n h k q / | > h¹ k d > n² u r g f c i > i k d > n nevqikmw xcm¹ uÀ² u ul go r¹ r g v gi {gvo k vcp^a tqm gn cf^a uclp¹ cm n¹ vqi cv¹ u¹ t c0 Gri qpf qn¹ u¹ v vci^p dghqn¹ a uqnc c | c n¹ 4 Am² p{ ku. j qi { cddep c | kf dgp o kpf j^a tqo vcpu² ngp x² r g v r g p ã n t g h q t o^a w u x c m¹ u À r t q h g u u l q t v c p { q w 0 O g i q r f^a u n¹ p v c v c p u² / n g m r^a t j w c o q u¹ v¹ u¹ v i q p f q n c 0 C r q n¹ a t k k u n q r k v c p^a t n¹ r |² u^a w l g t / x g l² u² x g n h g m c d c f w w h k u n q r k v c p u² n g m f q¹ e k l c r² p | ã i { k g i n g i g / v x² v g w c | À v c p u² n g m o g i u l g t x g l² u² v 0 C | k i c l u¹ i n g f x² t v o g i / l ã i { g l j g d ã m j q i { c u l g o² n { k t² u l o g i q r f^a u¹ v c i { c n q t r e v d c p p g o n g w x q p c 3 f 3 p i 3 u² i e u g p f d g p ã i { k^a p { ¶ c p k j q i { c l g n¹ w t p^a d > n c o g i n¹ k^a p v u l g o² n { g m n k p x g l² u t g c m c m c u h q t o^a d c p n g t ã r l g p g m n k 0 G l n g w x q p c c | > x v c u c d d g n^a t^a u 0 M r g d g n d g t i c l q p d c p c o c i c g n¹ i q p f q n¹ u¹ p c m j g n { g u² i² d g p² u o g i v¹ o c f j c v c v p x q n¹ d c p d ¶ x c. c d g e u ã r g v g u d d. p { ¶ n c d d. f g g i { ã w c n x g u² n { g u g d d g n^a t^a u v x^a r u l / v q w c < e k m g v ¶ t v u g d d p o g i h e n g n p g m i q p f q w o g i q n q n¹ u c n d g l g r g p / v g w c x k¹ i p² | g k v c p u² n g m h g n¹ n¹ v¹ u¹ v 0 C e k m d q o d c n¹ p v e u c r q w d g n c | g i { g v o k² u c h e n g n g l g w n¹ 4 k d² n g u² i d g 0 C | k i c l u¹ i n g f x² t v k u o² v j c p i u ã n { q l p w p m n g m j q i { c j k c v c n q u k c v q m p g o w f v c m c l k u / u l d g p u l g t x g l g w v c p u² n g m x k¹ i p² | g k l g n g i² t r 0 C o l p k u l v t r w d r k / e k u l v n e k d g l g r g p² u g c l q p d c p² r r g p g n g i g p f c n r q v u l q n¹ a n c v w c p { w i v c r p n q f^a u t c 0 W > n i j k c v c n q u l g n g i n g x g n d g p c o l p k u l v t j c p i u ã n { q l v c j k c v c n q u k c v q m v t v c m^a p c m f³ p v l g n g i² v g i {² d n¹ p v c l q p d c p x^a n q l v c r p w n n k c t v w^a n¹ u r q p l c o g n g w u g t g f g k u^a p / f² n¹ v n g t g u l v ã k l w g 0 G t t g p² o k e p c n¹ i k^a v v c i¹ n v g i { g u h e n g n g l g v k g i x g i { g u x k² n g n g p o n¹ 4 p² o g v g i { g v o g m u c v ã w o c k d c p. c o g n { g m n k o q p f¹ m j q i { c n¹ 4² r /² u ã n q t k v¹ v² p g k v x^a d d^a c h k q > h k c v c p u² n g n g p o k p f k i g i { / g i { n e v q i k m w² u r t q v g u¹ p u r t q h g u l q t p c m n g m r^a t j w c o q u c p v c p { c p k c 0

C | k p¹ v | n g f² u u l ã m² i g u² i² v v¹ t i { k c n r q p w > n i k u p g i² | r e p p g o g i^a m r ¶ c p l 0 D^a t c j w r¹ o q m n e u c p n k p v n e u g p f g u g f v g m c | ã i { g i { k f g k i o² i x k u l c l^a t v u M r g d g n d g t i. n g i c i f d d^a v o g p g v k g i. c d d c c u l p d g n g t ã w o l p v j c p g o x k i {^a | q w x q p c g r i i² c h e n g n g l g w n¹ 4 k d² n¹ t g 0 C r t q v g u¹ p u t² u l t n h g n g t ã w n k h q i^a u q m o l p v g i { 3 u l g u f v x g c | Q T N G o k u n q r e k ã f¹ u² p j c p i | q v c m g n v c i^p p g o x² r g v r g p ã n² r r g p c | g i { l m u l g i g f k g i { g v o k r t q h g u l q t o g i x k¹ i ¶ v¹ u¹ d c p 0 | t f g o g u n g u l c n k h i^a u q n e v² u c o l p k u l v t n¹ | k c v q u x^a r u l^a v t³ k f g p k u o g t v g p ã p n 0

C nkhq^auqm j^atqo rqpvdcp hqi nrj cw^m 3/4u|g< 30 Mrgdgnudgti c xku^apv^{ak} tghqto^awu gi {j^a|ngt^{angv} gn vgtlgu|v^{ugkv} v⁴dd ¶ dgp pgo jqpqt^anc. jqrqw wi {cpcmq^t c| qtu^ai m^{an}p^d3/4 nevqikwu gi {j^a|/ o gi {2kd n gn vgtlgu|vgw jcuqpn} n^{fx}a pu^ai qnev o gi j cni cwc. 40 c ul gi gf k gi {gvo gv c o kplu|vt nevqik^arlc. qw xkf i p²|gk vcpu²ngngv^a n^{fx} hgn gi { jgn|gv n⁷vu|gtgupp v⁴m dg. wi {cpcmq^t xku|qpv c fgd/ tgegp k gi {gvo tgd| jkwf qo^ap{k n⁷tc t²i »c j^ldc u^{ti}gk c o^auqf km gi {j^a|v⁴v²pgk vcpu²m hgn n^{fx} u^av. 50 c o kplu|vt c ul gi gf k gi {gvo m^kpn^lkc h^ma^{tf}a nev vgr^r¶v. wi {cpcmq^t c fgd tgegp k gi {gvo gv o^auqf t²epi ^{an}pvng|grk0

C o kplu|vt x^anu^adcp c xkf i p²|gk vcpu²ngmgn n^reucv^r/ dcp jkcvnq|km wi {cp gi {gu rqtqu| gi {gvo gm ucva^{wo}ctc. co gn|gm jcuqpn} kp^v|ngf²u^{ng}t g cpenⁱk^v p{^{al}v^pa pcm fg pgo n^{fx}a plc c n⁷tf²uv grk c^rq^p p²|pk jcpgo c i {cⁿq^rck ul go rqpqv vq^{lc} gn / v²tdg0 Cppcm kf gl²p Vtghqv t^au|qt[¶]kw c l⁷thku|gtl gvu/v^pa tqnev c o gi h^rgn n⁷r gu[¶]2 u o gi ul gt|²u²tg0 Oquv jcuqpn} n⁷g^vr^ugn r^rgw hgn c ul gt| gvu/v^pa tp mgn ul go dgp u c e²n²tf gn⁷dgp l[»]pcm n⁷vc c ul gi gf k gi {gvo gv gppgm o gi h^rgn gp dtgpf|gl pl0 G|gn pgo eul^aiv ugo o k ^{al}cv. fg m^{an}p³u^gp pgo u²tv^gw o gi c| gi {gpn gn^ap^au gr²v. o gtv c j qi {cp Ul gi gf gp jqpqt^anc c nevqikwuqm »j clckv. 2 r r ^{ai} { Fgd tgegp dgp j q|^a t^wm c j q|. j qi { qw gu uqtdcp tghqto^awu r cr qnev²u v^pa tqnev n^r g| gpn0

Gi {2dn⁷pv xku|cwcu[¶]lc c|v c x^afcv o k^vj c c ul gi gf k gi {gv/ o gv nevqik^atpk cnetp^a0 G| c x^af c ul^ao qm xkf i^ap^an 3/4o ci^adcp 3/4u|gqo rkn0 Wcn cttc. j qi { c| gi {gvo gp 6; vcpu²m xcp dg^v4xg< gl gnd n 49 rtqv^up^ucn 43 nevqikwu^r0 O kplu|vtu²i g c^rw gttg c| gi {gvo tg cff ki n^kpxgl gw 56 v^pa tv< 42 rtqv^up^uqv²u 36 nevqikwu0 J qn r⁷j gv kw nevqik^an v⁴gnx²uv v^ripkA C fgd tgegp k gi {gvo 6: vcpu²ng n⁷4 ^{an} 57/3/4 rtqv^up^u. 35/q^p nevqikwu r tghu|qt ^{ar}0 G| gm n⁷4 ^{an} Mrgdgnudgti 39/v p^gxgl gw nk< 9 nevqikwu²u »32 rtqv^up^u0 C| ki c|. j qi { c n⁷v fgd tgegp k vcpu²ng pgo w^fqw h^fgl g^vv d^k v^u¶/ v^pk xku|qpv eucm r⁷i w^odd p²i { ^{al} vcpu²ngv n^rqw c| gi {gvo 0 V^wf q/ o^ap{r qrk^{nk} qn^und>n gl gnpgm c v^gto²u g^wf qo^ap{k vcpu²ngnpgm x^qiv n⁷p{v^grp c| gnu ddu²i gv d^k v^u¶/v^pk0 Wcn cttc ku. j qi { c fgd tgegp k m^kpn^lm uq^men pci {qdd ul^ao dcp²u v⁴n⁷gv^guddgp 2 r ^{ang}m nk o k^v c ul gi gf l^gn< pgo r⁷j gv v⁷a^v c|v^a n^{fx}cpk o k^vj c c fgd tgegp k gi {g/ vgo gvo^auqf t²epi ^{an}pvng|grp²0

H^rj q|v^m c|v ku gmgp. j qi { c d^wer^guk M^rkl^gwo pgo n^rqw o gi h^rgn v^o qi c^vuv jqrqw wi {cpcmq^t c r²euk O^cwl^kwo n^rqw0 C o kplu|vt jkcvnq|km cttc. j qi { c h^xa^tqu jcuqpn} kp^v|o²p{gmgn

d xgp gn xcp rñxc< pgnk c tgpfgmg|²utg^am> gu|nñ4³ngv c xkf²m gt /
 uñ²u²tg nngnw hgrj cu|p^atpk0 U|go²tg xgvw²m o²i. jqi { c i³f³an k
 m rtgo qptgk pngxn/kp^v|gv²rñ²u²v d ngl gp v^oqi cwc0 Mrgdgndgti
 gl|gn ul go dgp wcn U^tqurcvc m v^oqi cv^ut^o X²i An o gi go nñv gi {
 xcndcp jcv^uqu cfcvq< 3;35/dcp c v³4^vpgvk qtu^ai dcp c tghqto^awu
 nñ²4²r kunqñ^am :85.726 R²t^vm^a mco k v^oqi cv^u ner ven= c euqpnē
 qtu^ai dcp xku|qpv c| o kplu|vtu²i g crw gl c v^oqi cv^u hgnl³ñ³4^v
²xk3.382.8: 3 R/tg0

C rgtv o²i wñri ku pgj²| rppg grf³pvpk0 O kpf gpv³u|gx²xg
 ugo c hrgng|gk²t|²ngp{u²i. ugo c| gi {gvgo k cwqp>>o kc ul go rqp^v/
 l^ad>n pgo xqrv o gi p{vi w>> c xkfⁱp²|gk vcpul²ngm r wdrlku|vnek
 dgj ctepi q|^auc0 Xku|qpv nñ^u2ⁱvngp. jqi { Mrgdgndgti. pjic gi {j^a|^a/
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 u grxu|gt r^atvcpu^ai i cn ugi²n²gl vg mñ³4³ugp c| kunqrcppvct^vu/
 dcp c| gi {gu hrgng|gvngv0 Xcnf ur qrknek vñgno gu^ai²v o wvdc
 gi {²dn²pv c| c nñ⁴Am²p{ ku. jqi { gl gp v²tgp²tg c nñi ngxgugdd
 v^ocf^au. r gfk i jquu|À kf p ngtgu|vñ l>hqt^ap o kpf gp gmgp|²nk
 Au^aiñ> c| ul go²n²p i {cnqtqnc o ci^av c rco hgvvñ^uu ngl gr^u/
 dgp0 J qi { o kpf ki o kpf gpnkpgm gl gp c v²tgp ugo wfqw grgi gv vppk
 c| eucm vto²ul vgu. mñ³4³ugp j c vgnkpv²dg xguu|Am c| g²ul gp o gi/
 hñ {grj gv²t|²ngp{u²i gv c hñ/hñ^api qn> jctek ngf xgv0 P²r kunqrc
 cnē>l^axcn³u|ghñ^ai²udgp c| qpdcp gl gp c mñ³4³pdgp cpp{kc nñp{gu
 vtñgv² ugo o gtñw hñ xgrg ul go dgp j gn{v^am nktqi^au0 Rgf ki c pci {
 o nñ²vuñ²u²xgn ner euqrcv dcp ul^a|²u ul^a| hñ² nngnw hñ {gmlg. o gtv
 l>hqt^ap o kpf gp gugvi qpf qu gi {²pkgn²i^a nñ^uvñ³xgvn0

Co kpv o^at go nñvgwo. Mrgdgndgti c p²r kunqrc/²rñ²uv. o kgn^v
 gttg o >flc xqrv c| qppcn o gi ngl fvg. grkpv² rgtul g eucm ul gt²p {
 ct^ap{qndcp. kñ^add c nñ²i gv dd ul Am²i ngvm nkr²iñ²u²xgn0 O kplu|
 vt^u2ⁱg gu nñ^v2^x2dgp o²i plpeu tgp²gu nñ⁴u²i xgv²u< c o gi^a ncrñ
 vqm ngl gr^uuk ngtgvngv c| khr²ek c nñi t³kf²gdd kf crw vñj crf²qv
 vcmñ vvgv0 C| 3;46470 gu t^arkupcm vgnkpj^vgv nñ⁴u²i xgv²udgp
 o²i eucm 322.222 ctep{ntqtpe j kgrv ner qv0 Gmqt hñi cmq|qw c
 o xgn f²uo gpv uqtul^av²m i qpf qnc^vxcn co gn{d n o kpgi { 5022.222
 ctep{ntqtpe j q|cf²nqv x^at⁰ 3;4748/dcp o^at ki gp lgrgp²ngp {
³u|gi hñ³4³v tgpfgmg| km co gpp{kdgp c tgpfgu²xk nñ⁴u²i xgv²udg
 dg^anñ|qw 40542.222 R/p nñkAn c jcu|pqu dgtwj^a|^auqntc ul^apv³u|g/
 i gnd n o²i vx^addk 8082.222 R/tg tñi > jcvro cu³u|gi gv hqt²ñ
 jcvqw c nk|³4v e²n dk|quñ²u²tc0 3;470 lñk^u 440²p vgtlgu|k dg v³4/

x²p{lxcurev^v c o g| ic|fcuⁱk p²r gu²i ²tf gngkv u| qn^a» p²r kunq^rm
 r²vu^ru²t n²u hppvct^vu²t»f0 Gdd n ngw c j^rgu 3; 48< XK0 v0 C lc/
 xcurev u| gtpv p²r kunqr^c a n^ruc² u² r^rug o kpf gp^{Aw} grtgp^f g^rgv .
 cj qn gi { vto²u| gk xci { lqi k u| go²n|pgm xci { v²ddgnpgm dktvni/
 dcp r²x . rgi c^rdd o^au^rn rgi h²gd p²i { nkrqo²vgt uwi ct^A vgt^{Angv}
 *n²4| gvdgp+ u²u| »twp xci { v²o³4^{Ang} c| wqn» j^atqo²x^a vci^av
 u^ao^rxc rgi c^rdd 42 euc^rf . xci { o kpf gppcr k vcpn²4ngv wnk²u
 xcrcv gcp{k vcpn²4ngv dgtqi cf^au²tc o^au kunqr^c pkpeu⁰ Ngj gv²i gu
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 ctc c uAn|qu³4⁴m²itg. co gn|gv g|gp c v²tgp c n²gi {g²u nqt c|
 w>fqmc jci {qw⁰ C| C^rh²4³p. fg gi {²d qtu^ait²u gngv ku. n²4²
 p³4gp c pci { wcf c^ro cndcp nd⁰ hrgcpp{k kunqr^c xcp. o kpv co gpp{k g
 u| ^{Am}²i rppp⁰ Pci { dclqm o wcvnq| pcm^anc^r dcp c n²Angmk kunq^rm
 n²4^{Ar}0 C pgi²|u²i gngv^ao gpgv^rgi o²i hqnq|vc c h²4^rtghqto . co gn|
 uqm gugvdgp c dngt^{Ang}v n²v xq^rdd r²vu^rgw ^A vgrgngv⁰ M²4²
 n²go grk c| wcf c^ro k kunq^r np^an o wcvnq| » j^kp{qnev< g| gngv c|
³4u| gu u| ^{Am}²i rvgngpm n²4 gn gi { jcto cf^atc dgeu^{Ar}0 Fg pci {qp uqm
 kunq^rtc rgu u| ^{Am}²i c dngt^{Ang}vngp ku⁰

C lxcurev grtgp^f grk jqi { o kpf gp h^rr² ^{Aw} kunqr^c j qo n²cv²tc
 c n²4^{gng}| h^rktcv n²4³p< eG|v c| kunq^rv c o ci {ct pgo|gv l³4 /
 l²dg xgvw v²pvt^rij c^rv²cp j k²pgm l²r² ^{An} a n^rqvc c| ⁰⁰⁰ 2xdgp⁰
 C| 2^r ^ru. d^ato k^rgp l²ngi kunq^rt»n rgi {gp ku u|». c| ^amco h²4^r |g/
 rvg c^rw hqn|km o gtv eucm eukpu²u gi²u|u²i gu 2^r ^{Ang}vngv u| cdcf
 go gpl⁰

C n²4²i gm h^rf g²u²tg c rgi²i gv dd u| ^{Am}²i rvgngv u^ao^rxc c|
^amco gi {gn tg 47022.222 ctp{ nqtq^av k^ap{q|pc gn v²dd 2^{xk} t²u|/
 rvdgp⁰ C| ^amco k vtj gv g| cmenqo o cn Mrgdgnudgti c| ³4u| gu n²4^v
 u²i gm 72' /tc nemw^rrlc< c v²ddk c hppvct^wm vgtgo vgp²m gn 0
 C lxcurev gi {km rgi hqpvqudd k^v|ng²ug c| Qtu^ai qu P²r kunqr^{ck}
 | r^ruk^r r²vu^rug. co gn|gv n²4²pd³4 hqt^auqnd»ntgo 2ⁿv^r r²rp⁰

C| go r²gw c^rrdc c| 3; 4849/k n²4²i xgv^u 30846.222- 60862.222
 R/v c| 3; 494:/k r²gfki 30722.222- : 0722.222 R/v lwcvqw eucm c|
^amco t²u²t n⁰ D^at n²u dd n²kt^{Ang}. jqi { c rqi^atk²u gi {j^a|k n²4/
 u²i gm c| ^avci dcp 72' /tc v²txg|gw o gi vtj g^ru vgo d^rv²m c
 o wpnc o²i ku cnc^ra n²v²cpw hqn|v⁰ Mrgdgnudgti c| 2^r ^rng²ugm o gpgv
 tgp^fl²v o^at c| 3; 47480 n²4²i xgv²u²gn ner euqr^vdcp n²lgr^{Ang}< gu /
 uqtdep c vcp{ck n²4|gvngpm kunq^r mcn xcn» gn^rv²u²v ngl^rkm o gi =
 o^auq^ruqtdep l³ppgm c| kunq^rv²cp h^rxcn= jcto cf uqtdep xku qp^v c
 x^ancnq| » qmc^vuv²u c v²Ar^uAr²qv qu^rv²n{qnev n²4²pvc o gi u| ^{Ap}v²pl⁰
 C rgi u²ti ugdd u| ^{Am}²i rvgv 56226 5722 ^Al vcpvgtgo dgp²u nd⁰ l²r

cpp{k vcp{f}k rnfudcp lgr{4k o gi 0 Griwqw vj^av pci {l^adcp c d x³u
 7222 ul^ao jql. co k cpp{k v lgtgr²nv c| 2^rr{f}ngl²uv n{f}t o qpwo gp/
 v^arkuu ci k²ek^la dcp²u dgu^ao qn^akdc0 G| c| qpdcu eum c| gnu. rgi/
 u^ati ugdd ul^aAm²i rvgngv ngr^ai f^v rtqi tco o rgw xqpc0 Gi { cmc/
 nqo o cn gi {gn tg o²i kpn^add eum^a ncn^apqu^ai dcp. ctt>n dgu²nv
 jqi { w^alf qn^ar rrp ; 222 vcpvtgo tg²u vcp{f}k rnfutc rppg ul^aAm²
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 rqpvcdd ul^ao qmen ul^aqni^anc c| gnu 7222/gu ekmw w^ap gi { o^auq/
 fkm r>w^atqi tco o t>n dgu²n co gn{ 683; qdlnwo tc v^atlgfpg nk o²i/
 r gfi 54; 5 vcpvtgo tg²u 3548 vcp{f}k rnfutc0 G| v c ul^ao qv n³4 xgv
 rpn^a rgo qf^auc gn w n³4³ng c pgo | gwgn0 Fg o^at gn | rgi rcpcl /
 nqf qw. jqi { c| wqn> rkn^apcvdcu rgti v^am c ngl²v c| 7222 qdln^a
 wo p^an o gi ngnw^a nplc0 e^lp go gw h xgn xkugro c o ci co hrgn u/
 u²i²v fg xkugpl^am ngn c o ci {ct uqtu^acn²u l³4 xgn ul^ago dgp c| qn^apcm
 ku. cnkm c n³4 x²rgo²p {dgp dk qp{qu cvo qu l^at^av nktl^angul vgwgn0 C v³4/
 v²pgro hqi n³4³4v^apmki c| u^ai qv^appk0

Cn^ato gpp{k g ul^agtg^av xqpc ku Mrgdgn^agti ul^agpv jx²dgp o²i
 v³4dgv gr^atpk o gi^a ncr^a f^v cv^awn jqi { c pgo | gv^a r^af q| cv^au²ig uqnev
 gl cm^arqo o cn xcn^adcp pci {qp uqnev dqu^avqw tgp^agmgl²u²tg0 C|
 3; 4; 4; 0²xk n³4m²i xgv²u^a ncn^apqu kpf qn^auc³ul gi gl k c| Qtu^ai qu
 P²r kunq^ack | r²uk Crr ul^ao^atc cffki tgp^agmgl²utg dqu^avqw jkg/
 rgnv< gl gm³ul gi g cffki 550482.222 R/v vgw nk0 Gj jgl l^atw^a wi {cp/
 c| qp²xdgp o²i 33022.222 R. vx^add^a o²i 4022.222 R0 3; 4; 152/dcp
 Åcdd ; 72.222 R/v ncrqw gttg c e²tc0 G|³ul gup 6: 0482.222 R/v
 vgw nk0 U^ao^a f^v uc ul^agtkv c| 7222/gu rtqi tco o vgn^agu dghgl²u²jgl
 o²i 3072.222 R/tg rppg ul^aAm²i. co kpm hqn^a>u²u^atc i²tgvgv ne/
 rqw0 C x²iu gnu^ao qn^ai ki c| qnc c| gn | gv^au ncm^ael^am tg^arku xqn^av0
 Mrgdgn^agti c|³ul gu n³4m²i gv 790 82 o knk> ctc{ nqtq^atc dqu^ang.
 xci {ku ngtgngp S 80 92 o knk> R/tg0 C| 7222 qdlnwo hgr^ar²ug. dgr/
 ul^ao^a f^vxc c jgn^ak v²p{gl m jql |^a l^atw^au^av ku. x²i gtgf o²p {dgp
 86072.222 R/dg ngt^anv. co gn{d n c|^a nco jcv n³4m²i xgv²uk²x hqn{c/
 o^ap 6: 0482.222 R/v x^ancn0 C|³ul gi³po ci^adcp x²xg ku ki gp lgrp/
 v²ngp{0 C|^a r^af q| cv pci {u^ai^av Mrgdgn^agti o²i m^ar² p c| cn vgl k
 ul^ago n²rgvu². jqi {³ul gi cuqpr^alc c nki {gl²u nqt^adcp wi {cpgtg c
 e²tc hqt^af^aqw³ul gi gmg^a Pci {/O ci {ctqtul^ai ngtgngp l²n²xul^acf
 crw 3: 89/v n 3; 3; /ki^a nco k²u pgo^a nco k²p²r kunq^am²r²u²tg²u^av
 crn^au^atc. c|^a nco k² |^a tu^ao cf^auqnd>n n²v²i vgrpn^a nku^ao^a f^v cw/
 nci 5; 0; 6; 79 ctc{ nqtq^av xci {ku 68049: .372 R/v hqt^af^aqw0 G| c|
³ul gi vj^av nkugdd. o l^apv c euqne qtu^ai pcm jcv²x crw o gi jql qw
 tgp^an²rk^a r^af q| cv# Vgo²ul gv^agppgm o gi hrgn gp go gm^afw c

vcp[¶]»m r[¶]vu^a o c ku0 3;494:/dcp gl c r[¶]vu^a o ngtgngp 39.222 h v
 vgw nk0 C n[¶]kgvngl²xdgp c r[¶]vu^a o nd0 3:..2220 C n[¶]kgvngl n[¶]v
²xdgp c o kpu|vt o^at nd0 3;..222 vcp[¶]»xcn u^a o qn0 C x²i u u|Ám
 u²i rvgv nd0 42.222/dgp^a mcr[¶]¶qwc o gi0 Mrgdgndgti p²r kunqrc rqrk/
 vkn[¶]lc n[¶]kgvngl²v dgp n[¶]v²i vgrp[¶]Án gr[¶]tv[¶]Ám jqi { c| cpc[¶]rdgvk[¶] o wu
 c euqpn^e qtu^ai dcp o^at pgo xqnv c| c n[¶]¶|»²u u²i {gprvgu r[¶]tdr[¶]o c.
 co gm[¶]gn c v[¶]kcpqpk nqtu|cncm pgnk[¶]pf w[¶]wpn0 f ncr[¶]dcp c| qtu^ai
 r[¶]nqu^ai^a pcm u| gng[¶]o k u|[¶]pxqpcrc ô o kpv o^at t^a o w[¶]w[¶]pm ô o k[¶]/
 f gp t²vgi dgp gt ugp o gi p³kgngf gw0

C|²r[¶]¶uk r[¶]tqi tco o ngtgu|v[¶]Ákkg[¶]r[¶]p²n nk[¶]gt[¶]Ám jqi { c vcp{c/
 xk[¶]i o gngw c rgi pci {qdd u|Ám²i rvgm j^atqo rqpqp lrgpvngl vgnk
 U cdqru x^a to gi {²dgp. cj qn c| 3;420[~] p²r u^a o n[¶]¶u cf[¶]cck u|gtkpv
 555.8:5 r[¶]nqud[¶]n pgo ngxugdd. o kpv 348.436 xqnv c| cpc[¶]rd²w=
 \cix x^a to gi {²dgp= Dwfcr guv n[¶]4p{²n[¶]p0 Oci c Rguv^o gi {g^a ncr[¶]/
 dcp gr[¶]i tqu^ai^a mcr[¶]qv dcp xqnv u Mrgdgndgti o^at 3;48/k[¶] pgo n[¶]xg/
 ugdd. o kpv 672 vcpvto gv²r[¶]¶vgvw gddgp c| gi {gv[¶]gp x^a to gi {²dgp0
 Gmqt c h x^a tqv n[¶]4 xgv[¶]gp n[¶]4p{²n[¶]p o²i vx^a ddk 469 vcpvto u[¶]Á/
 i u hgr[¶]r[¶]u²v vctqwc u|Ám²i gupgn0 Gi {gf Án Rguvt|u²dgvgp pgo
 ngxugdd. o kpv nd0 82 Á vcpvto tg u^a o[¶]¶qwc c u|Ám²i rvgv0 J cuqpn[¶]
^a mcr[¶]qv qnev vcr[¶]nv Mkr guv[¶] ku. co gn[¶]pgm r[¶]nqu^ai^c 3;22/dcp ;:26
 hq xqnv 3;42/dcp 73.286 h. kunq[¶]k xku|qpv n[¶]4 gn ugo hgn fvgm kn[¶]gp
 ct^a p{qndcp0 C Dwfcr guv n[¶]4p{²nk kunqrc/ ²u »xqf^{c2}r[¶]¶uk r[¶]tqi tco/
 o qv²rrgp gl²tv gi { nk[¶]gvk 38 vcpvto gu p²r kunqrc²r Ágv hgrxc/
 v[¶]u² xcnxgl gw[¶] dg0

C| 3;48< XK0 vg0 gru u|cncu|c Áppgr²n{gu fgmct^aek[¶]xcn ng|/
 f f[¶]k[¶]«[¶] ëC o ci {ct pgo|gv l³k l²dg xgvw v[¶]pvt[¶]¶j cvc[¶]v[¶] jk²t n²u
²rgvtgl²t n c|cn ku vcp[¶]Á[¶]i qv vgw jqi { o xgn f²uk u|[¶]pxqpc[¶]pcm
 go gr[¶]ug e²n[¶]d[¶]n gru uqtdcp c o gl ic|fcu[¶]ik p²r gu²i. m[¶]Á[¶]p³Ágp c|
 Cn[¶]4f vcp{ck r[¶]nqu^ai^a pcm i {gto gngk t²u²tg p²r kunq[¶]n[¶]ev r[¶]vu[¶]v²u
 vcpvto gngv²u vcp[¶]¶k r[¶]n[¶]uqnev²r[¶]¶0 Mgx²u v[¶]4x²p{d n r[¶]gw cpp{ktc
 xc[¶]u[¶]i. o kpv gdd n0 Mrgdgndgti xc[¶]dcp g v[¶]4x²p{ cncr[¶]l[¶]p[¶]¶vc dgrg
 c o ci {ct v[¶]4v[¶]pggo n[¶]4p{x²dg c V[¶]kcpqpdcp r[¶]vr[¶]qtv o ci {ctu[¶]i
 j un[¶]4ngo p²p[¶]gm rgi u|gdd gr[¶]k[¶]»f[¶]l[¶]v. c p²r kunqrc cne[¶]v. ^al w[¶]f qm
 o clf jc xku|ci qpf qpcm g o w[¶]n[¶]tc. eum dÁu|ng²i i gn²u o gi jcvq[¶]w
 u²i i c n go r[¶]ngl jgv[¶]gm o gi c pgo|gv^a r[¶]f q|cvck[¶]»n0 C| ki c|. jqi { c
 r[¶]»v[¶]r[¶]tqi tco o^at pgo xc[¶]»w[¶]v[¶]cvq[¶]w o gi0 O²i o ctfv c| w[¶]f qm[¶]
 pcm ku vppk[¶]xc[¶]» Á²r Árgvm go gr[¶]ug. n[¶]x²udd² cm[¶]o cu. u[¶]4²v xci {
 pgf xgu²r Árgvm nk[¶]cx[¶]¶uc. gugv[¶]gi n[¶]leugt²r[¶]ug und0 C| w[¶]f qm o k[¶]gn[¶]v
 c n[¶]4 Á²p{gm r[¶]gv x² v[¶]w[¶]m u|qti cm[¶] cu[¶] ²u pci {xqpc[¶]Áp hq[¶]n/
 w[¶] mku c o w[¶]n[¶]vc Mrgdgndgti v n[¶]rgm[¶]gvw[¶]cncr[¶] qn[¶]p0

C| kunqr²r²u o gmgw iqpf^lc xqrv Mrgdgnudgti p^gm c p²r kunqr² d^gnu vx^a ddh^lngul v²u²tg ku0 C| À jgn|gdgp hgn gt^Àv r^gfc i »i k^lk ul ^Àni² r^gv^gm d^lk v^lu²u²tc 3;47/dgp n^lcf^v c| Àl p²r kunqr² k^l v^lpv^gtx^gv. co gn^l o^at e²mkv|²u²dgp c xcn^luqu. gtn^l4²u²u. ²t²v^go gu ²u ³/p^lwf^c/ v^lqep j^c|ch^lcu r^qn^at^qm p^gx^gr²u^g o gmgw c n^l4²x^gv^lg^lw^l ku^o g^tg^vgn^lp^gm i i{cn^lqr²vk ²rg^lv^gp xcn^l ²t²v^lng^lu²v^l ku go r^gi^gku0 C| Àl v^lpv^gtx c| ^am^o r^qn^atk p^gx^gr²u^g o gmgw c n^l7^lko^l v^lpn^ltc. c v^lg^lv^lp^gx^gr²u^g. c| gi²u^l/ u²i^À {k^l ku^o g^tg^vm n^l4²x^gv^lu²tg pci { i^lq^lpf^lqv h^lq^lt^lf^lku0 C t²i^lk r^gfc i »i k^lk gu^lo²m ²u e²mkv|²u²gm o gmgw m^Àni²p^gi^l g^lg^lp j^cpi u^Àq^l|c c p^go^lg^v/ p^gx^gr²u^g u g^lpp^gm n^gt^gv²p d^gn^Àn c i^lc^lf^lu^li^lk h^grg^o g^lmg^lf²u^lg^l ku u^lÀ^l u²i^lgu e²n^lw^lf^lcv^lqu go d^gth^lq^o ^an^lu l^gng^lpv u²v^l0 O²i gn^l r^gi. 3;45/dcp. À^ltc^lg^lpf^lg^lv^g c v^lcp^l»n^lr|²uv^l c| {h^gn^l o^lgi^lu^lÀ^lv^lg^lw^l c t²i^lk n^lr|²u^l/ d^gp q^ln^l pci { p^gg^l2^lu²i^lng^lv q^ln^ll} v^Àng^lt^lg^lr²uv. o^au^lh^gn^l o^l m^Àni²p^gi^lg^lp c| 3;47/dgp n^lcf^lq^lw w^lcu^lu^lq^lmmen o^a n^lcf^ld^gp n^l4²g^lng^ldd j^lq^lv c v^lcp^l»n^lr|²uv^l c| Àl p²r kunqr²kv^lpv^gtx k^l2^lp^l{g^lg^l0

Pci { i^lq^lpf^lqv h^lq^lt^lf^lq^lw c n^lku^lf^lg^l»x^lnt^lc ku0 G^lg^lp c v²t^gp p^go x²i^lg^l/ j^lg^lv^lw w^l{c^lp q^ln^l{c^lp c^lr^lx^lg^lv o^lv^lpn^lv. o^lkp^lv c p²r kunqr²p^an f^g c^l2^lv c h^gln^lf²u^gp kw ku pci {qv r^gpf^lg^lw0 C e²mkv|²u²tg x^lq^lpc^lv^lq^ll} »n^li n^ll^lc^lr^ln^lw^l g^lx^lg^lk x^lq^lnc^ln^l c n^lku^lf^lg^l»x^l pg r^gi {g^lp h^l»n^lku^lqr²= c^l q^lw^lcp^l r^gfc i »i k^lk v^l4²g^ln^lx²u^gm v^lt^lu^lw^ll^lcp^lcm c u^lq^le^lk^lij^lk^ll²p² n^l4²d^g x^ai» h^grc^lfv^lqm o^lgi^lq^lr^au^lx^lcn^l C n^lw^lw^lu^lo^lkp^lku^lv²kw^ldc d^gt^gpf^lg^lv gi { i {g^lto g^ln^lq^ltx^lquv u^a n^lcf^ld^gp k^l{g^lng^lg^lw c^l »x^lq^lf^a n^lev p^lcr^ln^l4²k q^lw^lq^lpp^lcn ²u v^lgn^lq^lp^l{^ax^lcn n^ler^leu^lqr^lvd^lc j^lq^l|p^l0 C j^lcu^lp^lqu d^gt^lw^l ^a|^au^lq^lnt^lc u^l^apv ³4u^lg^lid^ln c n^lku^lf^lg^l»x^l»m ²r^lu²v^lp^gm gn o^lq^lf^lu²tc c p²r kunqr² ²r^lu²ug^lm^lgn n^ler^leu^lqr^lvd^lc gn u^l3^l 3082.222 R/v n^ler^lq^lw0 G^lv c^l ³4u^lg^liv c^l 3;4: 14;0k n^l4²u²i^lx^g2^u 3022.222 R/xgn c n^l4²x^gv^lg^l ²xk r^gfk^l 672.222 R/xgn gi²u^lg^lv^lw^l n^lku0 U^ao^lu^luc u^lg^ltk^lpv c^l q^ltu^l^aid^gp 6;; Àl n^lku^lf^lg^l»x^l»tc r^gpp^g u^lÀ^lni²i^lgu0 O^lk^lgn c^ltc p^go x^lq^lv t^go²p^l{g^l j^lq^l{ g^lv o^lkp^lf h^gr^lr^lq^lg^l u^lq^ln^luc u^lg^ltk^lpv h^gr^ln^lq^lw^lc c u^lÀ^li u²i^lk u^lq^ltt^gpf^lg^lv. co gn^l{g^lv g^l c^lm^ler^lq^o o^lcn h^lr^gi u^lq^le^lk^lr^lku u^lg^lo^lr^lq^lpv^lm j^cv^lt^lq^l|c^lm o^lgi0 C| Àl n^lku^lf^lg^l»x^l»m pci { t²u^lg D^lw^lf^lcr^lg^luv n^l4²p²n^ltg. c h^lr^gi k^lctk o^lv^lpn^lu^lq^lnd^l»n^am» n^lcu^lu^li u^l^ao^atc l^lw^lq^lw^l< E^lu^lg^lrt^g. M^lku^lg^lnt^g. R^lgu^lÀ^lj^lgn^l{t^g. T^an^lq^lur^lcm^lv^ltc u^lvd0 co k o^at ³po^lc^li^ld^gp o^lw^llc c^l gi²u^lu²i^lÀ {k ²u u^lq^le^lk^lr^lku u^lg^lo^lr^lq^lpv pci {q^lddo²tx ²tx²p^l{g^lu^lÀ^lu²v^l0 G^l{²dn^lpv ku k^l{g^lng^lg^lw c d^gnu o^lv^lpn^lv j^cv^lu^lq^lced^a v^lg^lpp^lk c^l »x^l»p / n^lr|²u vx^a ddh^lngul v²u²x^gn^l c n^l4²v^lx^gu n^lr|²uv gi { i {cn^lqr²vk ²x d^gl^lcm^lv^lu^lx^lcn ²u gi { À^lcedd g^lo²rg^lk ²x j^lq^l|^acf^au^lx^lcn p²i { ²x^lh^lq^ln^l{c/ o^lq^ltc v^lg^lx^lg^l|v^l0 C| Àl v^lr^lu^lÀ »x^l»p c o^lkp^lku^lv^lt g^ln^lq^lpf^lq^ln^luc u^lg^ltk^lpv o^lkp^lvi { ^avo g^lg^lv^lg^lv l^gng^lpv^lw x^lq^lpc c t²i^lk v^lr^lu^lÀ »x^l»p ²u c^l c^lpi^lq^ln p³4u n^l4²3^lu0H^lq^li n^lcu^l|p^lk n^lng^lw^lr^lo^lc i {g^lto g^lml^lk k^lnk^ar^lq^ln^lu^lx^lcn^lku0

Kv go nŋj gvgo o gi. jqi { Mrgdngdgti pci {qp uqnev i qpf qrv c|
 kunqrctxquk kp²|o²p{ o gi u| gtxg|²u²tg0 C o ci {ct i {gto gm o kpkul/
 vgt²pgm vctvqc o ciªv u vto²u| gw|gt rgi uqnev hqi ncmq| vevªm
 i {gto gm²fgro k nŋtf²ugn0 C|ªmco r²p| Æ {gk c| qpdc p g i qpf qrvª/
 pcmo gi xcn»uŋª uª vcmnqt o²i pgo vgw²mrgj gv x²0

Hqi ncmq| vev v c p²r kunqr vqxª ddnŋr| vephr{co c. c| Æ0 p0
 kuo²vn kunqr ku0 Co knqt o kpkul vgt rgw. c| ¾au| gu kuo²vn kunqrck vep/
 nŋªgrgugnpgm eum 5:0' /c xqrv dgkunqr| xc0 P²i {²x crwv 3; 4849/tg
 oªt 830ª /t»n dgu|²nj vgw0 K gxªi» i qpf qrvck nŋª ¾v cnef vcm
 pci {qp hki {grgo tgo²n»n0 i { r r0 c dcrvqpo gpvk kuo²vn kunqr ndcp
 c vqxª ddnŋr|²uv o gi hrgn hªf Æ {k dgª nŋª ucn nŋª pvc o gi rcmnq/
 vcpk co gn{ ô gmŋr|grug u| gtlpv ô êlcxªtc xªtkm o clf c p{ctcn»
 nŋª ¾pu²i pgm ku0 fncf dcp c| qpdc p c| qtuªi lgnj²pgm o gi hrgn gp
 c o g| i c| fcuªi k kªp{ Æ kuo²vn kunqr m gn| cr qtª uª v vctvqc hqp/
 vqpcn0 Vqxª ddk tgpfnŋª n pci {xqpcnª vgtxg xqrv jqi { c| kuo²vn/
 kunqr m dk qp{qu t²u²v ¾ªm» u| cmcpª»m nŋª tgo nŋª²u²xgn o g| /
 i c| fcuªi k p²r kunqr mŋ hglrgul v0 G| v c| kunqrª vuv oªt c jª dqt Æ
 x²i g hrgª Æ { go rgi gwg lgi { | gvkdgp. o kpv pci {qp ukgtª v cmqª u0
 C| v i qpf qnc. jqi { gppgm c p²r kgu kunqrchlvª pcm Æª p c vªo gi gmdg
 o qf gtp hªf oª kgrª uk ngtª u| gk u| rª u| gk²u dqtª u| cvk kuo gtvgnv
 rgj gv dgxkppk0 Mlcrcmwv c| c vgtxg. jqi { gi {gn tg qn{cp jgn{gn g
 o gi { g| gn c| kunqr xcn cj qn rgi crf dd 722 kuo²vn kunqrck vcpnŋª grgD
 xcp< // c vpwª rª uªª o grxg dk vtuªxc rppg0 3; 4: dcp 69 kŋ gp
 kunqr lc xqrv c| qtuªªi dcp0 Eum g| gnpgm o gi hrgn nkª rª u²tg
 40872.222 R nrgnw xqpc0 C hgvk gri qpf qrv u²vgn²dgp o²i vqxª ddk
 48 kŋ gp Æ kunqr v nrgnw xqpc hrg nŋª cpk co k kuo²v 40842.222 R/v
 lgrgpv0 G| gngv c| ¾au| gi gngv oªt pgo nerc o gi. fg c|²tv u| gt²/
 p{gdd ngtvgm nŋª ¾v o²i ku ukgtª v hfg| gv v nerc p. co gn{ d n
 vqxª ddhglrgul vj gw c| ¾ªm» i c| fcuªi k p²r kunqr v. c| v c| kunqrchlvª
 co gn{tg. x²rgo²p{g u| gtlpv. o kpv p²ro xgrª uk kp²|o²p{tg. ki gp
 pci { u| Æªªi Æpmxqn0

Rtqi tco oª dc dgrgkrgw c| kunqr pnŋª kªk p²ro xgrª u hglrgul vªug
 ku0 G| gp c rqpvp kuo²v nkª nŋª km c hnw kª pvk pci { tqnqpu| gpxg.
 co gn{ pª n qn{cp u|²rgp o gi lªtv c wfcvqu xª tqhglrgul vªuk rqrkknŋ/
 xc0 Oªt o kpkul vtu²i g grgl²p jcp i q| vev. jqi { pª n p m c u| cdcf/
 qmcª u ctª p{ vcpwn vª d dg hqi ncmq| qw c xª tqnqmen krgv rgi
 gj cp{ci qnc c hnw u jqi { g| v c| ctª p{ vcpª i qv oªt eum c|²tv ku
 jgn{tg nrm Æpk ogtv c hnwuk renquª iª ncnf dcp jªª u cdd vcl u c|
 o gi gi {gpugp pgo| gv c| fcuªi k rtdiª o c. jqi { c jqu| Æ hnwuk vªrk
 guª ngv u| cdcf qmcª ucn ku jcu| pquª uvn0 Uqnev hqi ncmq| qw c p²r/

nřp{xv tcm Āi {²xgr0 G| gm o kplu vgtu²i g grgl²p c rgi ul qo qt Ādd
 a ncr qv dcp xqncm o gtv cp{ci wnev 3; 35 »w c a ncr f dcp pgo htkuřlgw²m
 hgr0 Mř4 dgp c nřp{xgm pgo eucm grcxwncm jcpgo gn ku tqpi {qnřvcn0
 G|²tv ³4Āv cpp{ktc. o kf p 3; 48/dcp Dgvj rgp Křxª p v³ o qi cvª uª xcn
 c| kunqřpnřk Ārk p²ro xgru e²ndckc 30222.222 R/v ncrqw c r²p| Āi {/
 o kplu vgtv n0 Gdd n gnu uqtdcp c p²rnřp{xv tcnv jql v tgpfdg0 Gi {
 ²x o Ārkc ô 3; 49 nř4 grg v¹ª p ô oªt dglgrgpvk jqi { p²jª p{ pcr
 o Ārkc 3722 p²rnřp{xv t jci {lc gn c o kplu v²tkwo ²r Ārgv²v. ³4u| gupg
 442.222 nř4gvdgp0 G| gngv c| kunqřpnřk Ārk p²ro xgru uk dk qwª i qm
 o clf ul² vqu vª m c xªtquqm hrcmcm ²u vcp{ª m nř4 ³4w0 C| cnelk
 o²tgvgv kuo²v eucm c| ³4u| gj cuqřpnřu cfj cvlc o gi < g| c| gi {gv
 rgp ulª nřhoª p{ 44' /ª v vgw nk c nřgi {g|²uk nqtul cm gi² ul p²r/
 nřp{xv tkcp{ciª pcnř#

J c o quv i qpf qřv dcp o²i gi {ul gt x²i ki ul cřf wpm c p²l smcvª u
 ²u p²ro xgru vgt²p x²i | gw o wpnřp. Mřgdgndgti tgpřf řj gvgvřp
 qr vko k o wuc o gi qnřncpm vgw křc gpp{k i qpf. ř tcf qª u.ª ř f q| cv
 o²i ugo rj gvgw jk² dxcnř# C| cmqř» o kplu vgt hcpř| kªª dcp oªt
 nrcrnwv c| Āl O ci {ctqtulª i nřrg < ě J c g| c| gi² ul p²ro xgru uk
 cnelk» ³4 ²x cřw nřr Ān ô ř v o²i 3; 48/dcp. vjª v c x²i tgj clvª u
 nř f gv²p ô ²u g| gm c| kunqřm gi {/nřv ²xwł gf gp dgr Ān qpvª m o clf
 c| gř f ki k²n uqmnen o xgnřdd p³křpf² nřngv. gi² ul gp oª u rgu| c o c/
 i {ct o wpnř uřo gi pgm c o ci {ct nř4 i c| fclª i pcmk c nřrg. o křvo cì 0

Rřf ki o²i pgo xci {wpm nř ul gp# Mřgdgndgti jcvřo cu ci k² elov
 hřlgw nk jqi { c o ci {ct nř4 x²rgo² p{v o gi i { || g c p²r kunqř
 vxª dđ hřlgul v² u² pgm c p{qř ²x hřn{co qu p²r kunqř pcm ul Ām² i guř²/
 i²t n0 C o Āv j k² p{ckpcm r» vřª v xcrj qi {cp ukřt Āv cpp{ktc xkřpk
 jqi { c jcvqu vř n{qu p²r kunqřk vř4 x² p{ x²i tgj clvª uc dk vquřkvwpcm
 xqřv vgnřpvj gv 0 Fg o giª mpk pgo rj gvgw0 O kg pci { pgj² | u² i gm
 nř4 ³4w c jcvqu vř n{qu p²r kunqř v² u c jª tqo² xgu vxª dđ nřr | v p/
 hřn{co qv xcrj qi {cp o gi xcnřuř qvwm c xkř i o xgrvª mco ck gn tg/
 ul cřf wcm u o k cñkřpgm Mřgdgndgti gn qpf qř u ul gtkřv c nřwª rku
 ul řxqpcřp o ctfª u gi { Āvcn ř v nřtf² u xqřv nř4 grgl xg xqřwpm c
 vxª dđ j cřfª utc0 C o kplu vgt ²txnřpv c| v ku hřj q| c. jqi { gi² ul
 kunqřctgp ul g Āpnřdg pª ncr f dcp c p²i {gu xci q| cv vtcmqř křc c l³k
 p²r kunqř lª v ku ř i { nřkª ppª dgtgpř g| pk co kf p c p{qřqu vř n{qu
 vphřn{co tc gi { p²i {² xgu kuo² v n kunqřk vci q| cv tª² r ř v² u² v vctlc
 ul Ām² i gupgn0 Pgo j ku k jqi { c nř4 x²rgo² p{ c 3: ²xgu nřtki nřgt/
 lgu vgw vcpnř4 grl gwu² i gv pg hqi cf pª gr0 Wcn ctte. jqi { c 43 ²xgu
 nřtki vctw vřvpgxgru uk nř4 grl gwu² i ku o křf gp pgj² | u² i p²m Ān
 o gi xcnřu wj cvw0

Ngi h dd 2txg o2i ku c o^a u^a mco qm tgpful gt2xgn xcn> 3/4u| g/ j cuqprif^ u0 P2o gvtu| a| dcp. co gn| u| gtlpv ku c p2rqmcv^ u mruu| knwu h^af lg. o^t c ZKZ0 u|^| cf gnu hg^dgp o clf pgo o kpf gp^a mco dcp o gi vci^ nwm c p{qre2xgu o kpf gppcr k kunqrn^4grg| gwu^i gv0 C| 3; 3; 0^ y glo ctk cmqvo^a p{ u| gtlpv ec vcpn^4grg| gwu^i vgr| gu|^2 u^2tg grkrgi c p2r kunqr ngr c^i dd p{qre 2xhqn| co o cn 2u c j q| |^a eucvrcnq| » vx^a dd/ n^r| kunqr u| qn^a n gi 2u| gp c dghgl| gw 3: 0| km 2xki i 0 Cwu| vlc c| 3/4u| gqo n^u w^p u| kp^2 p^a w^2 tv gttg c tgpful gttg0 C| gnu| cmf| qw o qu> p/. uqr tqp/ 2u xcuo gi {gk t^2 u| gnpp o^a tku o n^4 3/4w c p{qre/ qu| v^ n^ qu p2r kunqr # C n^4 p{g| p2r gnpp^2 n o gi hki {gij gv lgrm cttc kpvpgm dgpp^p ngv j qi { o k ugo^a nj c wpm o gi o pgo r kj gpj gv^p m dcd^2 tckpnpp0 Tqo^a plc o^t egkrdgpi^a w^2 tv c j^2 v^2 xgu p2r kunqr^i te u o gi r t> d^a rlc c x^2 i tgi clv^ u0 Eugj qu|^a i ku hji rcmq| km c p{qre qu|^v / n^ qu p2r kunqr dgxgl gv^2 pgm rtqdif o^a l^a xcn u Mrgdgnudgti c| v j ku k j qi { c nk v p qu|^a m r^2 r^a nqp p xgm gfw eugj m w^a r d^a t qm^a ek^/ pcm ukngt^a n c tghqto qv o^2 i c Hgnklf^2 npp ku ngtgu|^a n k p p l g0 C vx^a ddk cf cvqnev gi { km 3; 4; / dgp n^4 |^2 vgw j kxcvrcu nlc f x^a p{^a dcp^a n f| qw i 3/4u| g. co gn| c p2r kunqr ck vcpn^4grg| gwu^i tg 2u u| gtxgl gwg xqpcvnu| » 3/4u| gu hqpqucdd gwt> rck 2u co gtlmek cf cvqnev vctvrc| v0 Gt ugp j cpi uAn| q| | c. j qi { kw pgo eucm m w^a r^a rku. j cpgo n^4 i c| f cu^i k n^4 t^2 ut n ku u| » xpc< c o ci {ct f qn| q| » v^o gi gm xgtugp{ n^r guu^2 i^2 t n0 L> n w^f lc. o kn| gp o^2 tj gv gvp^a r f q| cvqnev j q| qw c pgo | gv o^a t g f f ki ku eucm c|^2 tv j qi { c o^a v f g h e k l^2 v xci r j qi { cp gn^a v guu^a n0 F g c i { km qu m w^a r^a rku xgtugp{ dgp plpeu o gi^a n^i u0

O gi^a n p k wi {cp pgo ngr gv fg v^a n^i qucp ukv p k ugo # Mrgdgnudgti qn| cp rtqi tco o qv f qn| q| nk co gn| u| gtlpv c p{qre qu|^v n^ qu p2r kunq/ n^ te xcn>^a vo gpgv 34 2xki v^2 v pc0 Gpp{ k kf gr^i nqu| u| gtlpv c n^4 x^2/ rgo 2p{ vgr| gu o gi^2 t^2 u^2 pgm dk vqu|^v u^2 te 2u c x^2 i tgi clv^ uv krgv crc/ rqucdd hgm^u| A^2 utg0 t^a v c p p c m j qi { c rkdgt^a rku gnpp|^2 m dgr^2 tvxg c u| qe k^ r f go qntc v^ nev ku. t^3/4 v^p o gn^2 lg^a m0 Cpp^a n lqddcp h^ lv pgnk dk qp{ qu nqp| gtxc^v k n^4 3/4 m ci i qf cm cunq|^a u0 C| gi { km pci { / dltvqnqu dct^a vlc r n0 c w^a n vctvqw. j qi { c p2r hqnq| qw nko xgr^2 ug o clf o gi f^a i^a mc c pcr u^a o qv u c h^af l^3/4 xg gm go u^2 ig o^2 i vx^a dd eu^a m gp0 Mrgdgnudgti gt^2 n^ gup e^a hqn uqnu| qt go ngr gv gw cti wo gpw/ o^a v ku o^2 v r x g < ec vgo gr^2 udgp > t k^ uk^a vrc m w^a uqm gn w^a m w p n^ o kpf gp vgv rgi n^4 p{ gdd^2. fg u| gnro krgi c p p^a n pgj g| gdd^2 x^a r km qn| cp ct^a p{ dcp. co kp v c|^2 u| o kpf k p n^i dd h^4? dg ngtgnf km c vgo 2/ u| gvp gn0 C hqn| co cv o quv o^a t hgnctw| vj cv vrc p(0) J c o k vj^a v p2ro xgn f^2 u^a p ngv A^i { xg| g v A^m j qi { o v p n c g t g l^a n g v q r e u > p q f c / cf > 2 tv g r g v p v^o gi g m m g n^a m w p m o clf q w. co knqt 2 tv g r g u o w p /

nīuqntc rēppg u| Ām²i. cmqt c ic|fcu²ik xgtugp{dgp c ngtgngm crf ngtĀm²ī 0

Mhqi {j cxcvcp c| ²txgndgp. co knqt c p{qreql v²n{qu p²r kunqr c i qpf qrv² pcm u| ²rugdd nī⁴āndgp xcn» p²ru| gt u²u² xgn rt>d^a mql kn0 C ic|fcu²ik ²tx o gn² qf cuqtcm| vclc c r qrkknck0 J kxcvq| km cttc ˘D. j qi { dgnĀi {o kplu| vt nqt^a dcp xqiv nī p{vgrp o gi u| nī fgpk c Hlkgf tlej /f²ng x^arcu| w|qi k tgpfgvgv0 G²tv w»rci ku x^ancrlc w| cp i hrgn u²i gv fg dgxcnlc. j qi { eucm kf p{gt²utg fqni q| qv0 M²v²i / vgrp. j qi { c o ci {ct v²o gi gm o xgn f²uk u| kv²pgm ²u c x^arcu| w/ lqi pcm gi {o^a ucn ³au| j cpi dcp ngm rppp³m fg c nī²tf²uv pgo rgi gv v²g kf m x²i gl g²ki c x^arcu| w² k lqi quw^ai o gi p{kt^a n^a xcn grkp²| p²0 J q|^a ngm hqi pk c pgi gl gddpgm nī u| ». fg cpp^an u| Ām²i guggd hgrcfv j q| < o gi hrgn o » f qp go gpk ngm c o ci {ct v²o gi gm o xgn² i k u| p²xqpcif²0 Gm Āncm c| qm c| kf m co knqt j clw^ap^an hqi xc gn^a pi c / vq w nī⁴ lqi k nī²tf² ugnmgn hgn rgi gv w u| f²cpk c r qrkknck u| gp²gf² n{ gngv c ng rgi gv w nī⁴pk c v²o gi gm r qrkknck ²tf gm f²u²v0 C o ck v²o gi gngv u| qe²ku. ic|fcu²ik nī²tf² ugm k i cv^an0 G i gnp²gm ^av²tv² u| cpdcp pgo u| gp²gf² n{ v j c pgo hlgwgd² ²tvgr gv crcr qucdd kunqr² v² v nī² p²0 J c eucm hqto w^a mncn qr²g^a n²pm co knqt vgwntg rēppg u| Ām²i. hgnĀmgtgnf km c f go ci » i kc0 O xgnv qtu^a i qndcp c| qpdc c r qrkknck r cr tknlcpeuknevrguu² ngrkmc j qtf » t » n0

Fg pci { j cv²uv x^at c p{qreql v²n{qu p²r kunqr^a w^an c o ci {ct ktqf cmqo lcx^atc ku0 N^a wwm o kn{gp o ci cu x²ngo ²p{g xqiv Mrgdn/ dgti pgm c o ci {ct ktqf cmqo t » n mĀnī⁴p³u²gp j c| chku nī²ck nī⁴u² gvĀm² t n0 f nci² dcp o gi xqiv ctt » n i { | fxg. j qi { o k² u² itg ^an²wm c xgtugp{v0 C o gpp{ku² i i gn c| qpdc u| gtp²g dcl xcp. o gtv pci {qp k hkm² c| qrcu » nī⁴ p²u² i 0 J c o clf c p{qreql v²n{qu p²r kunqr c pgo | gv pci {qdd v²o gi gv ěc ukrdk^a » go dgtgnl n qrcu » nī⁴ p²u² i i ² p²gxrk cmqt c| gt vrdgugp hlgv² v² p²r nī⁴ p{ x² t j^a n } cv t² x² p » t² ukr kceqv p{gt c o ci {ct u² r ktqf cm knī⁴ p{ xi 0

C rgi gt ugdd ²txg o² i ku c nī⁴ p{gl ^amco qm v⁴gnx² ugtg xcn» o v^aru o ctf0 Qw pci {qdd cp{ci k gt mgn tgpfgm| pgm² pgmĀm Vku| qpv c pci {qdd v²txu| gt u²i gv ngm gl | gn u| go dghu| fgpĀm0 O²i f² { ku u| kv² o gi ugo o k² v c hrgn u²i ²t²ug. co gn{gv c rcuuAdd wdd o w²nc cl^a p²n^a xcn o ci^a tc x^ancn0 Crcr^a dcp x² xg kw ku i {qt/ ucdcp ngngpg eugngf pk eucm ô uclpqu ô pgo rgi gv0 O kpf gl mtg xcn» vgnk² vgn xcn^a u² i cn nī⁴ p{³ā³ c o ci {ct nī⁴ x² ngo ²p{ j gl < l n h²pwrlc o gi c nī²tf²uv o lgn w^a nī²uv hqi rcp0 ěFg o^a t o quv nī²txg nī²tg m o k² p²gp l » o ci {ct go dgtv pg j co ctn²flc gn^a nī²uh² rī² v o gtv c xk² i u| gngo c t^a f k² uwi ctm i {qtuc^a i^a xcn p{cti cr0 C I qpf/

xkugřu pgo jci { kf v u^ao wptc0 Tgwpgvgu xqpc ngřufk ctt>n c
i {qtuxqpc>n co gn{gp Gwt>r c pgo |gvk tqdq pcm gn tg gi { o²i
dgrř vj cxcvcp hgn f²uj kj gvgvř v³xqr^a i ckhgrř i 0

C pgj²|u²i gngv rqpvcup kuo gtv0 wfj cwc ngi lqddcp. o gmnyc
^ařf q|cvqnev lgrpgvw o^at c jcvqu^vn{qu p²r kunqr c o gi xcn>u^řuc0
O²i ku ctte v⁴gngř gw jqi { c i qpf qrcv xcn>u^řite x^an^řu^v ngi cř dd
gi { ngtgw⁴x²pp{gn o kpvgi { ul ko dqrknu o »fqp n^ř4gngř x² vgi {g c
pgo |gv u^ao^atc0 C lxcurev dgp{Å^vu^řpcm gn |o²p{glv c n^ř4gngř /
n^řr r gp hji rnc 3/4u|g< ě3: 8: 0²xk fgego dgt 70pgm jcvxpcfk m²xht/
f w^řl^ap o²n{gp o gi jvcw rřvgo^a v c nřto^ap|» Ā f qri q|»u|qd^al^a/
pcm m^řu| 3/4²v jqi { hgrj cvrc|^auv nřtlgm cjjq|. jqi { c p{qr²xgu
vcpn^ř4gngř gw²i t n²u c p²r kunqr t>n ul »n» v⁴x²p{lxcurevq v cmq^v/
o^ap{qu v^řti {cřf u x²i gw c| qtu^ai i { řu grř vgtlgul vj gugo 00
D^ř|x^auv tgo²řj g^řĀm ô h|k j q|^a ô jqi { v^řgp nřv vqx^addk²x cřw
vřlgugp o gi wf lwmxcn>u^řcpkc p{qr²xgu p²r kunqr^a i 0

Gri qpf qř uc xcn>dc pci {qp o²tu²ngrx x^ai {c jgx²j|g| nřrguv
ul kvy »xcvqu xqn0 3; 52/v>n ng|fxg 3; 57/ki c n^ř4u²ik nřrxkgn /
vřu^řvřvgm xci { hppvct>m cřwt>n ng|fgo²p{gljgkm c p{qr²xgu
vcpn^ř4gngř gw²i nko qf^au^v hgnĀt n c|qpdcp c o kpkul vřtpgm pkpeu
lqi c kř{gp²tvřm tgpř gřvggn kpv|ngřpk0 3; 57/v n 3; 62/ki o^at o kř/
f g^řĀw gřxdgp n^ř4gngř c p{qr²x. c o kpkul vřt c|qpdcp c i {gpi²dd
cp{ci k gtgl n^ř4u²i gnp gm hppvct>npcm hřo gp^vuv cfj cv0 3; 620
ul gr v0 r0 gw^řp o^at kř{gp hřo gp^vu ugo ngj gw²i gu0 C l>n^a v i qpf qřv
vřtx cmqt pgo xcn>uwj cvw o gi Mřgdgndgti gmřr|gř ug ul gtpv.
fg c|²tv o c i c c i qpf qrcv c| 3; 620k p²r qmc^vuk v⁴x²pp{gn o²i ku
gřlwqw c x²i^a nřo^a u j q| 0 M^ř4 dgp c Mřgdgndgti v n gři qpf qřv fg c
v⁴x²p{v^řt ki gn pgo lwqw vřtxg|i g^vu cřr l^ap c| qtu^ai v^ř4d r qpv^ap.
h ngi c h x^atqu n^ř4p{²nřp. wrcf qp nř r r gp²řvdg ku nřrgw c p{qr²xg
nkgtlgul vřw o kř gppcr k p²r qmc^vu. i { ngm c vrcul vrcvqm co g/
nř gnp gm c nřu ddk Ā v⁴x²p{ o gi ul 3/4gi gl²u²p²n²u x²i t g i cl^vuc uqt^ap
c vřĀ {k nřto^ap{| cv l» jcul p^av xg gwg0 Mřgdgndgti 3/4m²řf go g
o c tcf. jqi { c p²r kunqr vřĀg^vp x²i | gw nřtu|cnqu o w nřlc w^řp
pgo xqv jclřpf> r kř gppk jcpgo Ā gul o²p{v^a nř qw c pgo |gv gř0
C p{qr²xgu v^řn{qu p²r kunqr xcn nř euqr vqu ci k^řek o wvc ngi lqd/
dcp m^řv^řtr qřk^řek f kpc k o w^řv co gn{ o gi^a nř uv pgo kuo gtxg.
gi {km hřrcf c>n c o^a ukntc ngř Ā0 G c h^ř tcf jcvrcp^ři lw nř hř g/
|²utg jcuqřvckdcp. co gn{gm i {cmtcp ul gtr gngvkm c i {qtuxqpcvq
c| cw>v u v c t^af k uwi c t v0

M^řĀ^řp 3/4³o gv qnq|qw pgnk jqi { c| Ā cřr qntc hřmgv p²r/
qmc^vuk j^an>|cvd>n c ngi v^ř4d c| C n^ř4f pgm lwqw0 Co knqt c ul gi gř/
t>nuk ul ko dqrknu 3/4g|tgř km p²r kunqrck ěqdlgmwo q^ř 3; 520 qm0 470²p

hgrxcwc. dgu²f²dgp glv c oq|cpcqv gt upg nko gmg< Pci {
 v4²vpgk ki c|uⁱ vcrpuⁱ qv vgl Åpm l>x^a c| Crtf² p²r²p. c ngrgk
 o ci {ctuⁱ qp. gl gmg n c p²r kumqrck 2r Åmg² ugmgr⁰ J ku gp v² twn² u
 v4³4v n gl c h²f² 2u gl c p²r ul gpxgf gw rgi v²4dgv 2u o knqt nk|v^m
 kpp²v c v4³4v u c ngrgv ul w^m plc j gn gw c p{wⁱ cv 3/4u| dktf cm^a pcm
 kf gi gp wcm c pgi gl gf gw t^a pm cmmqt o²i vx^a dd ku ul gpxgf plg ngn/
 rgw c| Crtf² pgm o ci {ctuⁱ a² t⁰ O^a t c| gi {vgv hglgl v² ugn ner/
 euqrvc p nⁱ wwm j qi { Mrgdgdgti. cmmqt x^a tqur qrkck xpciqp. c
 nⁱ v crt² f k gi {vgv ugi Åu² i² xgn nⁱ v gwt>rck pci {x^a tqv nkhglgl v² u² v
 cnetv c| Crtf² pgm dk v⁰ Åcpk⁰ C p²r kumqrck Åi { tgp f gl² u² xgn gm /
 uqtdcp kuo² v c| Crtf² p²r² pgm o xgm² i dgk hrgo gmgf² u² v tgo² mg⁰
 C| Crtf² ul gtgr gug xqnv c| Crtf² j cqvlc rgw⁰

èU lpgv cwqo cvkwucp nⁱ Ågvgl gw dg c| ô Ålc ô. j qi { gl c
 o k p²r kumqrck cne⁰ pm crt² f k cne⁰ x^a u² rgu Åm⁰ Pci {qp lgrgi |vgv
 2u gi {dgp j o gi^a mcr Å⁰ u⁰ V³4du³4 j cpi u Ån|q| wwm j qi { rtqdr⁰ c/
 nⁱ v² u² dcp pgo w⁰ f qw ugo o kv eucm gnu ki gvngp e² ndc xgpp⁰ P^a n
 o kpf ki c pci { 3/4u| gh Åi² ugm f qo k^a ncn⁰ U rgi gv g c mwm Å^a p^a n
 a² vqi >dd ul go r qpv gm² r | gpk Å Cnk m v nⁱ 4 ggd² n kuo gt² m gn tg
 o gi l>uqj cw^m j qi { c| crt² f k nⁱ t² ugm j c gi {ul gt hqi rcmq| pk ngl f
 xgn Åm² rr Åi { tedwn glkm o kv cpcm kf gl² p c Lwk² p/ gi {gu Ågvk
 o wpm nⁱ 4. c pgo | gw Å² i knⁱ t² u xci { c j cf ki qpf q|^a u o gi ul gtxgl² u⁰

| t| grv kgi dk qp { qucp j cvq w t^a. U² ej gp { k Kux^a p rgi j u² /
 i gugdd vlc p qpk vcp Å² p^a t^c 2u nⁱ Ågv l² tg c| c nⁱ 4 Åm² p| ku j qi {
 gn ul 3/4 U² ej gp { k nⁱ v c o gi rgi o² nⁱ gddgp c o ci {ctuⁱ 2u c| Crtf²
 2rgv j cfn nⁱ r euqrvc k⁰ J kcvnq| km ku U² ej gp { k rtqi tco o l^a t^c. c|
 Crtf² hglgl v² u² tg. o kv gl gi { km rgi pci { qdd o ci {ct hgr f c t c⁰
 J ku gp qw rnk m c rgi v² d. c rgi gtgf gwdd o ci {ct# Mrgdgdgti ku.
 o kv U² ej gp { k uqnev hqi rcmq| qw g pci { fcted h² f tgwgpv ul gi² p /
 u² i² xgn co gn| nk² n> gngp² v dgp xqnv c nkj cu| p^a r vcpwn o ctf v uqm
 rgi gv u² i i gr⁰ Mrgdgdgti kf² | vg hgn gn ul 3/4 U² ej gp { k >v c rgi rrcu| v
 mwddcp c pci { tgh² to^a vt^a m ckv c| Crtf² mwm^a rku 2u gl gn
 nⁱ r euqrvc p i c| f cu^a i k Åi^a 2rgu v² u² t r⁰ K g x q c v n q | > vgx² ngp { u² i g
 o^a t pgo ku ci k² ek² xqnv j c pgo xcn² u^a i qu crquqk o wpm⁰ U gi gf.
 U gp v u. D² nⁱ ueucd. U qrpqm P { Å gi { j^a | c. F g dt gegp. c vcp { cxk fi.
 c mkgdd/pci { qdd x^a tqum² u hmxcm i { cntep nⁱ w^m v nⁱ 4 Åndgp
 v² ti { c p k c vgp k xcn> v c j gn ul Å p gp o gi tci cf pk vcp^a eunq| pk c ul kv
 nlo gt Å j gv vgp. o kpf ki d x Å n rtqi tco o t> n co gn { pgm x² i u e² n/
 nk v |² ug c| Crtf² ul gdd l³ Å lg xqn⁰ Mgtgl v Å n uwn dgwv c gl v
 c xk² ngv. j qi { c ucl^a v vrcu| vrcvck ugi Åu² m c o ci {ctuⁱ pci { go dgt/
 tgl gtxq^a t^a pcmc lqdd l³ Å ud³ Å u l² pgm mwm^a rku 2u i c| f cu^a i k o gi /
 j > f Å⁰ u² dcp⁰ Gru uqtdcp mwm^a rku o wpmⁱ v x² i | gw. fg gddgp dgppg/

tglngw o kpf gp hqpvqudd uqtun²tf²u²pn⁰ P go u| pv o gi fqi q| pk
j qi { c wf^au² u c u| » gtgl²xgn rwdreku| v²nek ²Àqp ku dk v²u²uc o w²pn¹lc
u¹o^atc c n³4 x²ngo² p² {²tf gm f²u²o

C n²tf²u hqpvqu^aic U²ej gp{k »c o²i o gi p³kgngf gw< c|
Cn²4f lgrgpv u²i g c v²lcpqpk qtu^ai dcp o²i u²Àn²qucdd^a ngw⁰ C| qtu^ai
h²4f tcl| k ³4u| gv²grg. H² kn²ru u| gtn²l gv. c| qtu^ai t²u| gnp²gm gi {o^au/
j q| xcn» ct^ap {c pci { o²t²v²ndgp gnq²nf qw⁰ C euq²pn² qtu^ai ;5.222
p²i { | gn²ko² v²gt²d n 64.222= : (8: 6.222 r²nqu^ad »n 50 82.222 gugw c|
Cn²4f tg⁰ Mko qpf j c v²cpwn pci { pgo | gw²tf gngm h | fvgm j q|^a.
j qi { c| cn²4f k r²nqu^ai h²rt^a | u²c² u c| gi²u| qtu^ai n³4 x²ngo² p² {²pgm
o gi h²rgn k^a p {²u² uc ukngt^a 3p⁰ P go n²n²ru² t²fgngm n j c pgo c
o ci {ct²i uqt² t »nxqnu² »#

| tf gngu c| c| Cn²4f /n²r. co gn² Mg²dgn²dgti dgp. v²rf p nku² c
o ci {ct k²qf c²qo w²n hgu²gw o gr²pej q²r²kuw Cn²4f /n²r gm gn²g²pf dcuc/
n²pv. v²pw^a p {ck wc|^auck uqt^ap n²cr²n²w²n⁰ P go xgu²k v²icf^audc
r²n⁰ c Rgv h²k n³4n²u| gv²v n p²r u| gt u²lgw Cn²4f /n²r u²r u²i gw. fg
dgx²mc. j qi { c| u| go g u¹o^atc g u²r u²i gm o ³4 ²Àn o k²pf v²pc²rp
n²kn²pf kn²n c pci { o ci {ct u| qo qt^au^ai. c| Cn²4f ²Àgu²i g. gn²ci {c/
v²qu^ai c⁰ Mg²dgn²dgti c Fw^ap v²Àn p w hgn qn²cp x²l²ngp. co gn²gp
59.222 p²i { | gn²ko² v²gt²p {k v²t²Àgv² ngt²gm² | a⁰ dcp n²v² u² l²m kn²p {k
r²nqu^ai n²l⁰ 4262 n²kgdd/pci {qdd n³4 u²i dgp u^anv o gi 0 G| gn u| go/
dgp c| Cn²4f p²gm o cl²pgo p²i {o kn²p {k p²r gu²i g xc²ro kxgn pci {qdd
v²t²Àgv² eucm 8; 9 n³4 u²i gv u| gt x²g| gw⁰ C v²4³Àn j »f²u² n³4 g²v²l² v²dgp
g²x^a n²q| qw c| c v²l. co gn²gp c o q^aeuk x²u| gn w c o ci {ct²i c
ngi u t d²gp² u x²u| qp {m²i qucp c ngi pci {qdd l »f²v²dgp² n⁰ D² n²fdgp
xc²ro kn²qt 382 x²l^ai » n³4 u²i x²qn⁰ C pci { r²vu² f²u² w²p. co gn² gl v
c M²pc^apv²tv². j gn² ²Àndg eucm 49 v²o cf v hgn ²Àd »r⁰ G| gn u| go dgp
c n²l⁰ w² {cpc²m²qtc Xcu o gi {²dgp c n³4 u²i gm u¹o c 4; 4# C| Cn²4f ³4p
D² n²u. D²l²ct. Eucp^af. Euqi t^af. J cl²À²u L²u| pci {n²vu² q²ppm
x^ato gi {²m v²t²Àgv²p. co gn² n²l⁰ j²u| gtgug Xcu o gi {²pgm o k²pf ³4u| g
426 n³4 u²i gv² u 3: x^atquv v²rf n²pn⁰ C p²i { pci { cn²4f k x^atqu *Fgd/
tgegp. J »fo gl x^at²tj gn². U gi gf. Mgeungo²v+ j c v²tc pci {qdd.
o kv² gi²u Xcu o gi {g⁰ C u| gtgpet² vgp²Àn ukngt^a v² x²l²tg²gl²uk o w²pn¹/
r²vu² n²kg²l²u² v²g²m c u| kn²gngv u n²u²i v²rgp²Àn j q|^a1^atw²mc
u¹tc| u²i nt »pkn²u^a v²gr²j gl⁰ C v²gr² ²Àf²uk x²u| qp {qm c o w²pn¹ v
gi {^anc²rf p pgo n²pp {²km o gi 0 C| w²cm pkpeug²gm o gi h²rgn gp nk/
²r² f²xg⁰ O gpp²n h²i {gm gugddgp p²| k xc²rnk c v²l c²tw²v²v cpp^an v²ld
ugd. o w²pn²c²m²qo. v²pp²l²cn » v²tw² hgn gn w⁰ U i { »i {²cpk n²ngw
c n²g²ngv ku. co gn²gn²dgp h²nd²l^ap| qw c u| qe²k²ru gr²i gf v²g²pu²i. c|
Ài { n³4gv² u uqm j gn²gp c o gi h²rgn xc²n²uk i q²pf q^a u j²k²p {c n³4gv/
n²l² v²dgp c u| gn²m c²rn² f²u²tc xcn » j cl²ro ku⁰ O k²pf gl d²ppg xcp

cddcp c pci { Āgu²i dgp. co kv Mrgdgnudgti go rgi gv0 Rgf ki rpppg
grfi o wpcgt # G²tv rñuk c rgi²dgtgdd ul go gmn gn o q|f w/g gl c
pci { fctcd o ci {ct h²f0 U x²i vgrp ³/₄ o gn^a mcr ¶mc o gi c dk w»
lgrngv0 Gi {km p {krcwul cvc ²if pngp hñuk rñmk^a mcr q^a v< ëC| w»ddk
²xw²gf gndgp ²rvgo rgi ci i qfcm cucdd »t^ak c|qm co knqt c j^adqtĀ
²u hqtctfcm cm p {qo qctcd»n eum rcuucp nigo gmgf Gw»r^adcp c|
²dtgf ²rv v²pgvkv hki {grgo. o kf p c|v rñgo. jqi { pgo tkn²ddcm/g
c| Ātc p {¶». c| Ād»n hgun ²rv ³/₄xgpf gvgu lgrk p^an²pm o kv o^au
qtul^ai qndcp. m²ā²p³/₄gpp c dgpp²pnv n²ā²p {gl^a mco qndcp0 Go dgtgm
xi {wpm ²u gl²tv jcp i wrcwpm uqul qt j w²o|km fg c t^apm pgj gl gf
u t n²ā²dgp o kv f ki o gi xli cu|cn jc c| Crt²ā²f ²dtgf²u²tg i qpf qm0
C ul gmg g|gp c pci { fctcd h²f³/₄ o gi o q|i cvqw nqt^addcp rjo j^ap
o ctf v²o gi gngv0

Crt²ā²f /rtqr ci cpf^al^apcm gi {km rgi^ancpf >dd. uqul qt go rgi gvw
o qv²kw c c| Crt²ā²f fgn v²ā²v²pv pci { ki c|u^ai vrcp^ai. co gn pgm
l>x^av²gr²tg rñm²v hngv0 Vci knw fctcd h²f pgm vgn²pk co gn pgm
²rv²d n c| gw>rck m²ā²tc ul go ul ³/₄²d n p²|xg. c v²ā²m o gi ul^an²u
n²ā²gn n²ul^a | ²xgv grtcdqn0 C vx^addk vci knw qnc c p²r gu²i tgp²¶/
jgvv² o ci {ct^ai c xqñ. co gn pgo w²q w gng^ampk 3:6: xct^a|u^a/
pcm u rñm²gi pgo w²q w nkd²n²ā²pk 3:89 tg^ar qrk²nek ul Ām²i gu²i²xg²
C n²gi {gl²unqtk n²to^ap {qm pgo v²o cu|n²qj cvcm Mquuwj Nclqu
p²r²tg. jcpgo n²p {vgrpgm xqñcm c pgo |gv²i k n²ā²rv²ndg o gppk
o cpf^awo qn²tv. co knpgm c|w²p^atc xqñ v²ā²dgm n²ā²v²wcndcp.
j kf cndcp. xcuw²ndcp. kun²q²ndcp. n²ā²kp²|o²p {gndgp k# M²ā²dgp
h²l²gu² vpk nngw Dw²cr guv< co k gt o²i o ctf v c| qf cu|k^ati qv0
U co knqt dgn²ā²gvng² gw c| ³/₄u|gqo r²u. kv o ctf v wi {cp c| ct^ap {/
vrcpwn pci { h x^atu. fg c pgo |gv²ut n rj^ao r²wcm c| kp²|o²p {gm
ngn vng²ul^ah²qñ rgt²k²t²n0 C rgi tqu²eddwn l^atv c o ci {ct^ai g²ij cp {ci qñ
uk h²u|ng. co gn pgm c n²gi {gl²unqtk d u²i u|ctw^a r^au^auck>n l>h²to^ap
ugo o kugo l²wq²o quv²kf g n²mc| gt vn²qepv^aipl#

C h²rcf cv qn²cp lgn²i ²u o²tg xqñ. jqi { ul kv² n²ij ¶xv gi {
Mrgdgnudgti /v² w^a ^amco h²tk^a v²wgtgl²v0 Cppcm kf gl²p c t²cp i r²vtc
x²i gh²r² g²ij gn²gf gw h²cn Mrgdgnudgti v²ā²gu rñmg pgo j^av^an o gi
c Lw²k²p/gi {gu²rv e²m²v |²u²dg h²q²ñ h²rcf cv pci {u^ai w²o C x²i u
e²n c| xqñ. jqi { c jqt^av r²n²q²u^ai v²o gi gk n²ā² u|qt²w o ci {ct
u|>x^ap {qñv c o ci {ct^ai. c o ci {ct^a r²gh²to c. c o ci {ct^a ³/₄pw²cv
u^ao^atc o gi o gpw²0 Oquv l>x²cn pci {qdd h²rcf cv x^an²cn< c rgi/
g²ij cp {ci qñcdd o ci {ct^a v²ld>n nngw n²cn²¶cpk c o ci {ct^ai pcm
qn²cp gt h²tt^au^av co gn^a v²o gpg²ri r>v²q² Gt²n² ²u c H²rk²m
j²k²p {> g²pti² kv k²0 Pci { h²rcf cv xqñ. co gn pgm pg²|u²i g. u²r²i g
gu h²pv²u^ai c rñm²v²cn²u^ai i cno gi tci cf w0

C| gn| ndgp o^at cmcm wpm xqrv o gi hki {gpk o gpp{k o kpf gpv
 vgw c mwwtr qrkkmwu c| Cñf²t⁰ O gi hki {grj gw^am gi {gvgok r qrk^a
 n¹a pcm kuo gtvg²ug uqt^ap c n²v cñf²/f k gi {gvgok pgm u^apv m²ñ²pñi gu
 ul gtrgr⁰ C fgegp²ctk¹a^eo u^añi gv²u²dgp l²t²u¹v ul k²v²p c| Cñf²/f
²tfgn²kg xg| gw²n^c èO²n¹ o gi i{| f²ugo c|. ô ñlc ô jqi { c| Cñ/
 h²/f ic|fcu¹ik dclcl²pcm pgo eugn²n¹ t²u¹dgp cddep xcp c oci {ct^a/
 |cv. jqi { pgo eucm p²r gugf²u^añgv fg ic|fcu¹ik ²rgv^añgv ku v^an¹
 u¹i qucp n²4 r qp²u¹q¹w²m ²u gppgm n²4 gv²ñ²v²dgp p²r gugf²uk ²u
 ic|fcu¹ik v²tpg x²t/²u r²p|u¹gi²p{u²igv k²|v^apm gn c xk²ngp ²u
 o quv t^acf^auwn euqf^am¹u¹ wpm ku c|qp. jqi { n²o qñ{ dclqm o wcn²u¹/
 pcn⁰ C p²r kun²rk ²r ñ²uk cne²pcm n²4 ²r qp²v^adcp. o kpv ñ²w²m
 c| cñf²/f k vcp{cxk¹i ^am⁰ G|gp v^ano gp ñi ^ancpf^acp v²4k tclv c
 h²l²v j qx^a. o kn¹gp kun²ñ²nev ngn²pg o²i c| Cñf²/f³p ²r ñ²g²l⁰ C jcp¹/
 u^an¹ c p²r kun²ñ²p xcp⁰ N^aw²m jqi { c vcp{ctgp¹u¹gtv v²4²v²pgk
 cfq²u¹ipcm xgu¹l⁰ O gff ^adt^apfq¹^aupcm vctlc c|qp gm²mgf²pk
 e²u¹gt v²gr²ñ²uk o »f/g gl. xci { ugo⁰ Cfxc xcp. vj^av u¹a⁰o qpk
 n²gm xgn²# C o gi x^an¹q¹vc²uc uq²u¹qtq^adc ngt²ñ²pg c²ppcm c| ³4u¹gi/
 pgm co kxgn c j^av^ap{qm n²ñ²u¹ ³4²3¹gv n⁰ J kfgk jqi { c| Cñf²/f pgm
 gu uqtdcp pgo jwo cpk¹v²mw¹ i ko p^a|kwo qm ngn²pgm jcpgo o gpv n
 v²4d rqn^atk ²u h²ñi o gpv n v²4d o gl ic|fcu¹ik p²r kun²ñ². kgtq¹/
²u ngtgungf gm k vcpqekun²ñ² X^atqu ²u vcp{c² o kpf ngw gi {h²to^ap
 hpv²u⁰ C ñ²p{gi gu c|. jqi { o kpf gp²ñ² c| ²r r gp qfxc² o xgn²u²igv
 cfci q¹rw²m o gtv cmqt dl²qv¹ñ²xc xcp c i{³ñ²txg²u⁰ èJ qi {jc r²g¹ki
 gi {u¹gt c o xgn f²u v²xcu¹c t^añ¹ {gl km ²u o kn²pv c l²dcp. gt v²gdugp
 o gi kpf wpcm c o xgn f²uk ²rgv²gf xgm cmqt c|v²p c o xgn f²u
 gi {u¹gtg tqj co qu^a x^añ² G| c mww^arku h²ln f²u dgm v²4x²p{g⁰
 l³k v h²to^an² hpv²|k¹a²dcp c o gi pci {qddq¹qw ²u o gi u¹t²u²ñ²3¹v
 cñf²/f k x^atquqm o kpf o gi c²pp{k xk¹i ñ² v²tp{qm¹ c²rnw²pcm ^av
 co gn{gm ul g²gu¹a¹tq¹|^am c| ^añ^auv h²ncu¹ w² o xgn f²u²c èO kpf gp
 gi {gu cñf²/f k x^atqupcm o xgn f²uk xk¹i ñ² v²tp{pcm n²gm n²pp²g.
 co gn{ dl²qp{qu u¹a¹tn²4dgp. c o ci c xk²n²p. c| Cñf²/f pgm c pgo |gvk
 i²p²k²u¹ ^amcn tg^ad¹qw t²u²tg c nww^atc xk¹i qu^ai^av u¹a¹tq¹|c n⁰
 J c gl gm c xk¹i ñ² v²tp{qm gñi ut p xc²ppcm ²u l²p{ñ²m gñi gt u.
 cmqt o gi ul pkm c| c u²4²u²i. co gn{ u¹a¹cfqm »v dqt²w² c²tc c
 pci {fcted h²/f tg. co gn{ c| g²f²ñ²kj gi {gm nc F w^aki v²tlg⁰

Cñf²vcm cnkm Mrgdgn²dgti cñf²/f k cne²^av o^at grxg n¹t²dc/
 xgu¹gw h²tfq¹^aupcm p²|v²m cddep c o gi i{| f²udgp. jqi { gl v c
 ul gmgo k ²t²vrgo dgp ku ul kn²u h²/f gv c mww^atc pgf xgk uqj cugo l^at¹a^m
^av⁰ Mrgdgn²dgti pgo gpi gf² o kpf gpv o gi n²gm n²ñ²tg²pk c ñ²gv²gv²p
 ku. o gtv c v²v ki gp pci {0 Gnu uqtdcp c| Cñf²/f tg xcn² v²ñ²kv²gn²
²rgv²g ngn²vgw c O ci {ct Mww^arku Gi {gu²gv²m U¹3¹kv²i²v *MGU +.

co gn{pgm hgrfcvc xqrv c| kunrfm o gn² n²r²tcnev. o À gwo qnev.
|gp²gk² r²gvv xct^a|uq²pk qfc r²g²ki. cj²qn o²i gi{ lqdd xgp²i n. xci{
n²x²j^a| ugo cnefv gu o geugt²tg. n²ci²rd² ku m²w²À²j^a|cnev^a n²f²cpk⁰
O²i ctte ku i qpf²qrv j²qi{ c| c²h²f²k² ¶²»nev ô i gpwu ktkcdkrg xcwo # ô
v²o² 3/4 u²g⁰ | r²gv wqn» j²gv²gdg² k²gp i qpf²qrvq²m²n hq²ttv ci{<
2 xgp²nk²p²v n²l⁰ 3/4 c²h²f²k² ¶²» xci{ n²4²rv² gu o x²p²gm n²cf^au²tc n²gm²pg²
h²f²g²|g²gv d²k²v²u²f²cpk[#] J²k²g²vg²gp. j²qi{ o g²m²q²tc gt x²gn w²f²qw k²gp
À²{g²nd²g²ëd²gr²h²gm²f²pk⁰

C Dgv r²gp/nqto^a p{pcm xqrv C²h²f²/r²tqi tco o lc⁰ C| gi{km lgr²gu
gn²p²|n²k r²w²rd²ek²uc. cnk c ën²q²p²|q²rf^aek²o² n²4²2²u²t n pci{q²p n²x²u
l²v o qpf²qw 3; 4:/dcp o gi^a m²r²¶²q²vc. j²qi{ c| c²h²f²k²n²tf²u k²q²cm²c
gi{tg p²k⁰ ìU²q²el²q²n²i w²qm m²w²tr²q²rk²m²w²qm i c|f²cu²ik² 2^u v²ej²pk²ek
u²cn²go d²gt²gm x²k²ui^an²m c pci{ u²h²pm²| c²tw²cv²v. co gn{ gu r²km/
p²vc q²n² p{¶²pcm² 2^u gi{u²gt p²gm r²vu²km o²kp² o²cic c²v²ln²r. o gn{g²v
j²q²f²q². fg co gn{pgm o²kp²n n²4²g²rd² j²cl²q²m²pm j²q²|^a. cpp^an v²ld
ug²d² 2^u t²g²v²n²g d²q²p²vcn²|km nk gn w²pn⁰ M²v²i²vg²gp c|q²p²d²c. j²qi{ c
r²tqi tco o d²n c n²gi²pci{q²dd t²u²v gi{gn²tg c m²w²w²|nqto^a p{ x^am²nc
2^uv²rd²g²|g²w²< o²kp²gi{gn²tg gi{g²pi²g²w²c v²cl²vc v²x^add²kn²q²|o

C o^at kuo g²vg²gv o²q²|c²p²cv²q²np n²f²À²n M²rd²gn²d²gti c| C²h²f²
h²rgo g²r²ug² 2^{tf}gn²d²gp o²i n²v n²À²p² u²g²x²g²l²g²v r²v²u²f²g²w²< c| Q²u²|^ai²qu
C²h²f²k² D²k²q²w²|^ai²q²v 2^uc| C²h²f²n²w²c» D²k²q²w²|^ai²q²o C| gn²pgm v²i/
n²4² r²tqi tco o lc h²g²4²ng² c| 3/4 u²gu h²p²v²qu²dd r²td²q²r²o^anev²c n²4/
ki c|^acv²uk n²4²ng²f²uk x^at²q²h²g²l²gu²v²uk o²g²|c²f²cu²ik k²ctk² 2^u gi{2^d
n²tf²ug²ng²v h²ng² c i{cn²q²rc²vk o²gi²q²r^auv v²tx²c u²go gn²w⁰ C d²k²q²w²|^ai
ng²g. o²q²|c²w²lc M²rd²gn²d²gti x²q²rv nk n Dgv r²gp K²w^ap l²q²i²cn^anc/
r²¶²j²c²w²c o²gi. j²qi{ ìv²rc²u²v²rc²vk i c|f²ci kuo g²vg²g² h²tf²j²c²w²rp
gp²gti k²lc h²q²n²v²p r²tg²g²u²lp^anc x²q²rv ctte. j²qi{ c| C²h²f² o²gi²q²r²c²w²rp
n²tf²ug²kv gi{g²vo²gu u²go u²3/4 d n ku h²gm²tc²q²lc 2^u 2^{rf}tg^anl²q² gi{ q²n²cp
o²q²|c²mq²o²pcm o²gn² gi{g²vo²gu p²go|g²vk o²gi²À²j²q^au²wp²m gi{km 2^{rg}v
i{3/4ng²x² c o²ci{ct C²h²f² h²g²l²gu²v²u² 2^u o²q²f²g²pk^an²u²v n²f²x^ap²vc
v²pp²l⁰ M²rd²gn²d²gti n²À²p²4²gp 2^{rg}v w²qn» j²»p²er²lc²d²c² gi²u²gp t²gp²/
n²f²À²k o²2^{tg}v c i²kc²w²tk²nu² o²wp²n²v h²g²l²gv nk c| C²h²f²k² D²k²q²w²|^ai²pcm
v²rg n²g²f²go 2^p|g²l²gw i{ r²ug²l⁰ 3; 540 o^alw² 4; 0²p U²q²rp²q²np² d²gu²n
c d²k²q²w²|^ai x^apf²q²i{ r²u²p²< n²x²u c v²go r²mq². c h²cn² o²i c h²ku
n²x²u= c| C²h²f² pci{ À²gu²i²p u²gi²¶²gp² n²gm⁰ W²i{cp²g²gp 2^x l²À²kw²
6/2^p D²n²ueuc^ap v²cn²rl²w²l⁰ K²v c|v h²g²l²gi²g²vk g²rp²3²nk d²gu²f²d²gp. j²qi{
cpp²cm cnk c| C²h²f² r²td²q²r²o^akc²cn h²q²i²cn²q²|km c n²tf²ug²ng²v c j²gn²/
u²¶²gp n²gm v²cp²w²a²p{q²l²pk⁰ P²k²peu x²g²u²gf²gm²g²udd. o²kp²v c| q²n²cp
k²v²|ng²f²u. co kv p²go v²o²cu²v c²ri c u²go 2ⁿg²u 2^m2^p{. c n²4²x²vg²p
o²gi²kuo²gt²u⁰ C| cmc À²{ x²l²u²q²p{rk²m c| 2^{rg}k²g²|. o²kp²v c d²gh|3/4v
i{À²o²3/4eu c h²kuu i{À²o²3/4euj²3/4⁰ U²gr²vo²d²gt 70²p P{¶²gi{^a|^ap v²ld²gm

nɪ4 ʒw c| Cɪɪʒf k Dk qwʌi j gn{k u|gtxg|gvkpgm nɪtf²u²xgn hqi rɪ/ nɪ|qw U gr vgo dgt 3: 0^ap. o^at u|lpvg c j cɪɪ n^atp{²nɪdcp. c dk qwʌi u|gpvguk pci {i| rɪ²p dgu²n hkuugp. ʒwgvugp< èO lgn w kf gl³wgo c| ʒp³m nɪ4²dg. 2^{tf}gm f vgo Euqpi t^af o gi {g o Ànc k^ap(00) gl c xk²m c o ci {ct O gl qr q^v o k(00) o gi q^ra^utc x^at c xk gm j cu|pq/ u^ʒuc0 (0) nɪ v h r tqdɪ^oc< c dÀ c²u c x(00) U lpvg v^aɪ tcf dggpg c| gpgti k. r g f ki vɪ^ap o^at dgr^r»|vcm vgu²dg c j cɪɪ n eu^ʒa k0 Okv w^fqw xqpc o²i cmqpk gl c euq^arcvqu c nɪtcvt²u vj gu²i. j c kf gn wgnpgo x²gvkmv n^ap^aA

P qj c c| Cɪɪʒf k Dk qwʌi ku hqi rɪmɪ|qw cmɛ^o kci c| cɪɪʒf k²ngw n hɪxgvw w^fqo^ap{qu nɪtf²ugmgn Mrgdgnɪgti o²i ku e²nɪ|gt / pgm f^wc m^aɪ^p mwc» u|gtxg|gv rɪ²v g|q^au²x0 ʒi { cɪɪm^w o gi gm / uqtdcp c u|gi gfk²u f gdtgegpk gi {gvgo gm w^f»ucl«n c| Cɪɪʒf / mwc² Dk qwʌi 0 .. u|gh^ʒi ʒw p^arc gl c nɪtf²u c| gi {gvgo gm ur gk^ark hɪrcf c^vɪ^ʒglt n nɪcɪɪn^ʒqw ngf xgn i qpf q^rv xci0 Gn qpf q^ru^at»n gi {km ek^mɪ dgp *3; 530 hgd0 : 0t c nɪ^ʒgvng| ngv ʒi v< èC o Àv²x u²p cddec c dgu²f go dgp. co gm|gn c| Àlppcp 2^rÀv vgo²u|gww^fqo^ap{k k^pv / |gvngv^acf vco c u|gi gfk gi {gvgo pgm nɪgo gngo. j qi { c| gi {gvgo k u|go k^atkwo qm rcdtqv²tkwo qm²u mɪkⁿm o v^wncvt²Àn c fqmqt k²vng²ugm²u c o ci^apvp^atk f qⁱq|cvqm v^ʒti {^awn pg ngtgu^ʒp^m o k o k^pki c| gi {gvgo gu w^fqo^ap{qu^ʒi nɪ4²d n xgw qn{cp r tqdɪ^oa / nev. co gn{gnpgm o gi q^ra^utc c p^an^wpm lqddcp hɪn|gtgnv²u lqddcp f hɪgtpek^ʒv p{wⁱcvk gi {gvgo gm c ukngtg xcn» pci {qdd nɪ^ʒv ucn x^ancmɪ|j cvp^m²u o c tcf lwp^m o gi c ucl^av o ci {ct r tqdɪ^oa²knp^aɪ0 ©i { c u|gi gfk o k^vc f gdtgegpk gi {gvgo. gl c nɪ v v^ʒck gi {gvgo o gi ku cɪɪn^ʒqvc o^at Cɪɪʒf / mwc» dk qwʌi^av. co gn{j gl o quv o k^vc gi {gvgp v^ʒej p^kck h k^uq^rpm c o gi {gvgo ku eucv^ʒq^w²u ʒi { j cvm cu u|gtxg|gvv 2^rʒ^ʒp^m c| Cɪɪʒf w^fqo^ap{qu r tqdɪ^oa²kpc^m v^ʒxu|gt mwc^vu^ʒtc²u o gi xci {qm i { | f xg t»rc. j qi { gl c| c dgeu^ʒgvu o ci {ct o »f u|gt. co gm|gn v^ʒck gi {gvgo gk^m d^kqu^ʒv / j cv^am o ci v^wpc^m c Vku|cxk²m p²r²pgm u|gtgv²v²u^aif q|cv^ʒu^ʒ/ i²v0 M^aɪ^pʒw c u|gi gfk r tqh^ʒu|qtqm o v^wn^ʒl^axcn xq^rv o gi g^ri gf xg< gl gm u|gtk^vg o gi²tv^wm c| Àl kf m k^vc u|cx^av u gn²n{gf v^wm cz Cɪɪʒf v^ʒcl^apc^m m^ʒp^al^apc^m p³x²p{k²u^ancv^ki^apc^m v^wo^ap{q / |^au^ʒdc0 G|v gnu uqtdcp c l»n n^kr^ʒgv²u hɪn|gtgnv vgo²u|gww^fqo^ap{k k^pv |gv^m v^wm n^ʒgv x²0 C mwc^vuqm gtgf o²p{gk o clf g^rlwp^cm cc Cɪɪʒf nɪ^ʒp{v^ʒtkdc u c v^ʒʒ^ʒ»m t²x²p o gi kuo g^tk c|qnev c hɪxcm²h v^ʒ{^am p²rg ku0 èX²itg xcnj^atc c| Cɪɪʒf pgm ku o gi ngm kuo g^tplg ucl^av r tqdɪ^oa²k^ʒ

Ngj gvvgp hɪnqtqpk o k^pgp cɪɪʒf k n^ʒ|f go²p{gl²uv. co kdgp

dgppg xqiv Mrgdgnudgti vgx²ngp{ ul gngo g²u dwf f[¶]» gpgti k^lc< c
 ul qrpqnk icdqpcv[¶]tj^a|v»n c ul gi gfk jcrævæxc»n ngl f xg c vku|ck
 jcl>wcnki²u vto²p{²t^vngu[¶]u[¶]ki. cok rñ0 c ul qrpqnk Vku|c/nq/ /
 hgtgpek rtqi tco o l^ap ul ggr gm0 Gi {²tf gm f²uk egptwo qv o²i ku
 o gi ngm m[¶]z[¶]p go n[¶]vggo cppcm kmu|v^añ^atc. jqi {cp wfwq
 Mrgdgnudgti ñ^aul»rci nqñ^aku rtqdi²o^anev xkñ^ai³u|gh^ai²udgp ñ^avpk
²u ñ^awcpl0 C Fwpc0 Vku|c /eucvtp^atc e²ñ^aqm co gn^apgm gn o wñ^a/
 rcvkc c Dgvj rrp/nqto^ap{ wfwxrgx rgi lgrgpv u³u|gi gngv^arf q|qw
 u co gn^apgm ñ^av^ag|q^auc t²i v n hqixc uqnev kⁱcwc Mrgdgnudgti ñ^ar/
 |grv²v ku0 G| c eucvtpc ul^ao^atc pgo eum o ul cnk cmq^vu. pgo eum
 ic|fcu^aik²t^vm rgw xqpc. jcpgo gi {gpugp pgo|gk Æi {0 Eum c
 pgo|gk ñ^a4x²ngo²p{v n^vo qi cvqw nqngm[¶]k x^amemu|^aun³pv i qp/
 fqnc o gi xcn»u[¶]j cw»pcñ0 J cmi cuwm eum o gi. o leuqc h³4f gngv ne/
 rpfq| dg ñ^ar|grgv. jqi { c eucvtpc lgrgpv u²i²v ngm³u|gh^ai²udgp
 xkñ^ai[¶]uc o gi 0 ÆC dwf cr guk0 ul gi gfk ñ^a4 Æv nqt^apwgo vku^vp o ci {ct
 Àxqpcn jcpgo n[¶]gi²u|[¶]v t²u|g c Nqpf qp0 Mqpuv[¶]kp^ar qñ0 C r/ /
 r q0 Mmwwc/ xci { hqn^atquk cw»Àpcñ0 Wi {cp[¶]{ c Fwpc0 Vku|c
 eucvtpc ugo rppg m[¶]z[¶]p x[¶]k[¶] Æv. jcpgo c ñ^a4 rmgf²uk xkñ^ai r qkñ^apcm
 gi { o^aukm pci { Ælc. co gn^a c| co gtn^ack M⁴2r/P {w cv pci { vxck»n
 c U gpv N tkpe/hqn^a»p. c| Cwv[¶]»eg^appq. c Telp^ap. Oclp^ap. Fw^ap
²u Vku^ap^av xlp[¶]g c Hngv[¶]/vpi gki 0 C vx^addk hglvi g^vugndgp t^a/
 o wcv jqi { c p²o gvm²r[¶]km c Oclpc/eucvtp^av. c| Wp[¶]»²u Mpcfc
 r gki c U gpv N tkpe/hqn^a» eucvtp^a|^au^axn rgi gv x² vku km o²n^la^{tc}À
 vpi gk jcl>npcm ku c ocpkqdek d^Àc jcl^adc xcn» ñ^a4xgv[¶] gn/
 lw³u0 G| c x[¶]k[¶] k^an[¶]cv c ocpkqdek d^Àc²t^vngu[¶]u[¶]v cpp{ktc o gi/
 ñ^a4p[¶]«k jqi { c| r[¶]xgtj gk c ok rgi ft^ai^add nkpeu[¶]ngv. c vku cxf²nk
 d^Àa[¶]0 C Fwpc0 Vku|c/eucvtpc o gi²r[¶]ug v[¶]i^av c o ci {ct d^Àc
 xgtugp{ñ^ar gu²i²v ku lgrgpv²# C h³4f vng v[¶]» h³4f ki ngm ñ^a4gv[¶]Apm
 Mrgdgnudgti gn qpf qñ^auck. jqi { ugo ok ñ^a4vñ[¶]Apm pg o ctf lq c
 eucvtpc²ngv^ai» hqvqu^ai^av kngv rgi 0 Fg c o guu|gu²id n ku xku|c/
 nep{ctqf km c| k^of qw Cñ³4f j³4< x²itg ku c eucvtpc gu uqtdcp c|
 Cñ³4f²r²² rppg< ÆO kpf gp²t^vngu p²r ul gpvpm vctvc c jcl c
 h³4f l²v²u ul gpv c| o wpc ku. co gn^a o ci^av c| qtu^ai hgn[¶]v²v. h³4f/
 tcl k ul gtn[¶]g^v i {³ngtugp^avcrcn[¶]lc0 C Fwpc0 Vku|c/eucvtpc nk^a/
^au^auc o²n[¶]g x^aipc dgr c jcl c h³4f l²dg²u r gki rgi o ci {ctedd
 t²u²dg. c| Cñ³4f dg0[¶] {²ngf vgm Ætc. hqto^añ^avc m^av rgn²dgp
 U²ej gp{k jci[¶]cvv[¶] x[¶]k[¶] c| Cñ³4f t n gu uqtdcp cppcm ñ^a4gvñ[¶]/
 o²p{gn²pv jqi { p^anc Æc vgxulgt^vi[¶]u[¶] grxg cr r l^ap c mww^aku
 rtqdi²o^ad»n qnxgv[¶]ñ nk ngn[¶]gdv[¶]plc c| Cñ³4f gi²u| rtqdr/
 o cvñ^la^{pcñ0}

XKKO

Mrgdgndgti o x²uj gw³4v²pgvk ²u gul v²wnck w²pwn^ap{ck0 ô C x^atqutgpf gl²uk
 rtqdif^oam k^apv xcn»^amcpf»²tfgm f²ug0 ô C o x²uj gv pgo |gk jkcv²uc0 ô
 C o ci {ct o x²uj gvgm gi {km hqp²qu hgrfcvc c o ci {ct kic|t^aipem c o ci c
 ucl^avu gul n³4gkxgn xcn» jkf g²ug0 ô Mrgdgndgti o x²uj gw^atvq^auk g²gk< c
 wnet²nqu^aitc xcn»³4gnx²u ²u c o x²uj k r^atv^af²gm gm h³4 go gmf²u
 n³4gng|gw²i g0 ô V^ao qi cpk ngm o kpf gp vj gw²i gv fg pgo ul cdcf dng/
 cxcvq|pk c o x²uj gk k^ap{qm jctekdc0 ô Hqpvcudd ²r²ngl²ugl0 ô C x^atqu
²u c hcnw ucl^avu gul v²wnl²lc0 ô C ul gi gfk Vgo r²no /v²t0 ô C ul qdt^aul cv ²u
 hgu²ul gv ul gtrg Mrgdgndgti ²r²ngl²ugkxgn nreucv²dc0 ô C ul gi gfk Pgo |gk
 Go r²neuctpqn0 ô C| —I Oci {ct M²r²v²t0 ô M²h²4fk n²ng²uqn0 ô Mrgdgndgti
²u c o ci {ct |gpgm²atc0 ô \gpgk lwcm cm ²u r^an²cf²cn0 ô C ul gi gfk qti qpc0
 ô U |pj^a/r²qk²nc< c Pgo |gk U |pj^a n²tf²ug0 ô C xk²nk ul |p²ul gv o gi/
 ugi²u²tg k^ap{w» v²txgn0 ô C ul gi gfk ul cdcf v²tkl^av²nqn0

C| kh²À Mrgdgndgti ngo ²p{v²dr²u h²g²v²gd²p u gi {²d lgi { |g²vk
 n³4³4v hgn p gp uqm o x²uj gw³4v²pgvk h ngi ²r²ng²ul gv v²4v²pgvk hgn/
 lgi { |²uv v²ri²n²pn0 Pgo jk²p²o. jqi { c| cfcv { l²v²ugn xcmo k n²h²4p/
 rgi gu e²rlc ngw xq²pc0 K²guo k n ugj qn²go ul »n0 C pci { ul qti cm²o.
 o clf pgo o qj »u^ai o ³4³4v eucm wf^aux^ai { ²u c ul ²r ul g²gv²g² tglv |kn0
 C| ²ngv rgi wqn» k²gl²d²p n²ngvng|gw hngi { |²ugnd²p kuo ²v ut d/
 d²p gn dw²ncppcm c o x²uj g²tg xq²pcvq| »n0 G| cm²no o cn ku f²qo k^an
 c| ²r²ng²ul gv h ngi c d²ctqm0 Fg ctc xq²pcvq| »ri o gi k²p² pgo v²ri/
 n²pn ugo o k v²o cu²l r²q²vq. xq²v²g c wf^aux^ai {qp ²u o ²rk²gl²ug²p n²h²4n
 o ²i o^au e²rlc ku c| cp{ci i { l²v²ugn Uq²nev wcl²qw u o^at n²q²p go ng/
 i gw. jqi { o gi w²pwn r²v²k0 I {²t Àk²gi { |g²vd n p{ k^apxcn». jqi {
 c o x²uj k go r²ngm w²pwn^ap{q^au^atc ngj gv rgi l>gn tg c²rc²q²cp hgn/
 n²ul² ãn0 | tf²ngng c ul qdt^aul cv c hgu²ul gv fg wcl^auck uq^ap kuo ²v
²u kuo ²v c| ²r²ng²ul gv cm²q²uck lgr²pv²w²m ul^ao^atc c rgi pci {qdd
²m²p{v0 K²qf cm k o v²ri²ul^adep c uqm o x²uj gk kuo g²gv²pc²i d>n
 ct^ap{ri n²gxg²v² ²t²v²ng²ngw0 M²v qn²cp d²ul²fg. kngv rgi gn cf^auc
 xq²v co gn²gnd²p d xgdd²p nk²tv o x²uj gw³4v²pgvk r²tdif^oantc0
 C| gi {km c V³4v²pgm k V^atuv²vp g²h²nk ul²n²d n 3;440 p²q²xgo dgt 520^ap
 gm q²q²qw g²h²nk o gi p{k²lc. co gn²d²p ³4ul gh²q²rcnc c h²q²co cv²dc
 r²x o x²uj gw³4v²pgvk n²wc²v²uqnev u h dd xq²uq²nd²cp x^a|qnc c

vqx^a ddk vggpf ngx⁰ C o^a ukm c t>o ck gi {gvo cwfl^l dcp 3; 490 o^a t/
ekwu 380^a p vctvw gn cf^a uc. co gn {dgp t² u| rvgugp u| »n c| qrcu| o x²/
u| gvnt n gu uqtdcp c| ²r[¶] u| gt n ²u c| g v² tgp o gi^a ncr[¶] ¶j cw
o ci {ct/qrcu| ncr euqrvcmt>n⁰ Gi {² dn² pv c| qpdc h rgi mww[¶] r rkk/
n^l pcm o x² u| gr^a tvqn[¶] t² u| g^a twnc gn rgi lqddcp hgrh[¶] i^a u^a v c o x²/
u| gvmpgm c pgo | gk² rvdgp xcn[¶] u| gtr² t n⁰ C n³ k[¶] gvng| ndgp Mrgdgn/
dgti o x² u| gr rkkⁿ l^a pcm eucm c rgi lgngo | dd xq^a uckv rt>d^a rgo
t³ k[¶] gp ³au| ghqj rrpko

C| gffki kgnl n p{kk^a pxcn[¶]. jqi { c| u| go² dgp o kpfki o kpf gp
v² tgp c rgi hqpucdd xqm² u o ctfv c vgw⁰ C v⁴ v² pgo k vpw^a p{.
c| gm² mgf² u eucm gt v² u kj rvgv cfqw c| cmq[¶] » o wprⁿ tc⁰ C mww[¶] u| /
o kplu| vtu² i gv o gi gn | j kxcv² r² r² dgp eucm ngx² u| gt p{ ¶jv cmc² c
t^a. jqi { o x² u| gk rtdi² o^a mcn o kpv i {cmqrvc² i o gi qrf cpf »
hgrfcvqmⁿ vcrⁿ m[¶] | ²n⁰ J c o² i ku gn hqtfv[¶] t³ v² p o gi hrgn v² x/
rcqv w[¶] qw cfpk c rkrpcv[¶] k hgrfcvpcn⁰ Gi² u| hcvr[¶] qp. o kpv o kplu| /
vgtgp³ au² i k v[¶] u| v[¶] kgn. j kxcvⁿ »n hqi rcm[¶] | qw c o krgp^a tku go rⁿ m[¶]
o xgm r² p| Ai {k hfgl g² v² pgm n² tf² u² xgn⁰ Ct^a p{ rci pci {qp u| gt² p{
u| gtr. o^a t c o k c o x² u| gk t² u| v krgv⁰ Mrgdgn dgti gn w c| qpdc
v² xrcvnev p{ k⁰ Uej wgm cmqt ²r[¶] r[¶] gw c J crⁿ u| d^a u[¶] v. J cw⁰ o cpp
c nk^a n[¶] k x^a tv= Ut>dn vi {cpcmt o kpv[¶] | v c x^a t dgrk U| gpv Kvx^a p/
u| qdtq⁰ eGi { Aw^a mwpm ô go rⁿ m[¶] | km xku| c ²x[¶] gf gm o Arkc ô Vct/
n[¶] xlej^a mco vknⁿ t u| qd^a l^a dcp cpp^a n c o^a uqf go grvk cdrcp^a n cj qp/
p² v o kpv jcv² cu n⁴ n² r² v² twn gr² pm c h x^a tqu⁰ Qw xqⁿ J c| ck Kvx^a p.
c nqt^a p gnh Ap[¶] v o x² u| rgm vknⁿ t. J cw⁰ o cpp. Uej wgm ²u Ut>dn-
ctt>n^a m² qf wpm jqi { c dw[¶] ck x^a tj gi {d n o ci {ct Cntqr qruv cmq/
wpr⁰ | O gpp{ kg lgngo | t^a gl c o ci {ct Cntqr qruv i qpf qrv#

O x² u| gv k^a pk² tf gm f² u² xgn h[¶] i³ v² ³au| g u| kvg tgp n[¶] k[¶] Ark/
pgm o qpf j cw. o clf pgo u| gp^x gf² n[¶] u[¶] a⁰ dc o gp jcl² c c c x^a tqu/
tgp² gl² uk rtdi² o^a m vpw^a p{ q[¶] u[¶] tc⁰ Cnk pgo n[¶] v c r^a tkuk x^a tqu/
tgp² gl² utg. xci { c O wuqr² k[¶] k ng| f go² p{ gl gw T>o c/ v² xⁿ t g
xqpcv[¶] | » jcv² cu cp{ ci i { lvo² p{² v² a[¶] mcp[¶] » cp u| cr qtqf » lgi {/
| gv[¶] c| gn ugo w[¶] lc n² r| grk o gm² tc o wprⁿ v w[¶] qw dgrh[¶] m² v² k
c| k[¶] g² clv vpw^a p{ qnd⁰ Rgtul g c Rctkuv ²u T>o^a v krgv ²tf gm[¶]
n f² u o ³ v² o ci {ct x^a tqu² m x^a tqt² p² gl² uk rtdi² o^a k j[¶] v² cm
o gi. n⁴ v² m² c rgi n² c m² cdd h² to^a dcp Dw[¶] cr guv ²u U| gi gf l³ k /
dgrk v² pf² tk x[¶] k⁰ O gpp{ kg w[¶] qw jctci w[¶] pk c Dw[¶] cr guv² ³au| g/
u[¶] o^a rⁿ u[¶] m[¶] qt c x^a tqu rgi u| gdd rqp² ckv gr² mgr² v[¶] euw[¶] cu| v| /
hcrntc# Fg c x^a tqu o gm² gw qw xqⁿ o² i c hcrw co kpgm ucl^a vqu gu[¶] v²/
v² nek rtdi² o^a kcn ²rr qn[¶] cp i qpf² cn v⁴ f³ v² | tf gng² c dw[¶] c/
rguk Qr² gte[¶] |. fg pgo jcp{ ci qnc gn c| v ugo. jqi { c hcrw² mww[¶] /

j^a | cnpcm o gi rgi {gp c itco o qhqlwm c jql |^a xcn» ngo gl gnmgn gi {Äw0
U co gpp{ktg ul [¶]k²p xkugng c ul gi gfk ëO^a tmwv²tì uqt^uv cpp{ktc v³4 /
f³4w c | | cn ku. jqi { o kpf gp vcp{ck kunqr c o ci c pgo²dgp. c o ci c
j kcv³u³j q | o²tvpg pg eucmj cul pqu. j cpgo ul²r ku rgi {gp0

Mgdgndgti o x²ul gwul go r²gv²dgp wcmqf qw c ul qel²ru qrf cnk
c o x²ul gv c | ul go²dgp gnu uqtdcp ul qel²ru lgrpu²i 0 G | c ul qel²ru
gul v²kn c | w³p c pgo | ghqto^an». c pgo | gw Äll^a ul Ärg²uv c nwmw^aru
xqpcmp k^ap{[¶] r qrkkmwup^an o gi hrgn xgvÄrgv ncr qw< c o x²ul gv
ul Äm²i ul gt gp gn ngn jgn{j gl lwqw o quv o^at c |^a nco l²thkÄ vgtxgk
u v gul n³4 gk n³4³w0 C o x²ul gvgm pgo | gw j kcv³uc xcp. c o x²/
ul gm c o ci wn o »fl^ap wi {cp|v c ul qri^arcqv vj gwkm c v³ptgvw
o ci {ct^ui pcm o l³v cnft c rgi pci {qdd wf »uqm xci {^a nco l²thkn0
Hgrhi^au^apcm gl v c t²u²v²tf go gu rgu p²j^ap{ p{krvul cvc crcl^ap
n³4 grgddt no gi xk³i [¶]cpwpn0

Mgdgndgti pgm ô gi {²dn²pv vrdgu lqi cn ô ki gp nrf xgl x²ng/
o²p{g xqrv pgo | gn³4 k³4ul gi cuqpr[¶]u crcl^ap ku c o ci {ct o x²/
ul gvgm ul [¶]xqpcn²t»n0 —i { n³dc. jqi { o x²ul gvÄpm gi²ul u²i gu< uqm
c |²tgw vj gw²i. o²i v³4d c nkdqpcnq|^audcp r²x. ul^atp{cpk n³/
ul Än [¶]t²gv0 ëJ c xcp pgo | gw²rgvÄmpgm gt v n fw|cf» t²ul g. Äi {
n²u²i vrgpÄn o x²ul gvÄpm c |. ²u kul qp{cvqu rppg c |²p hrgn u²i go.
j c o gi²t²ugo xci { g²n go jk²p{^ap o Äp²m jqi { c o ci {ct o x²/
ul gv ku o gi nrlc c | v c v³o qi cv³uv. co gn{tg ul Äm²i g xcp. jqi { kvj qp
ul gdd². pgo gugdd² ²u i c | fci cdd^a vj guug c o ci {ct²rgv. nkpp r gfk
j kfguug c vj gw²i gtgl²xgn c o ci {ct ki c | u²i qv0 Xkfi qu dgu²f# Pgo
vknqr c gn jqi { c o ci {ct o x²ul gv pci {ul gt vrdgu[¶]o²p{gk r qrk/
vnek xqpcmp ku nk cnctlc cmp^a|pk0 G | v c i qpf qrvqv ku²vngp u vni p
o²i ²tj gv ddp nkhgl²utg lwewc0 G | gn rt»d^anc c n³4 x²rgo²p | v
ku c o x²ul gv²tv jql c pf»^a r fql cvqm ul Äm²i gu²i²t n o gi i { |pk0 ëP go
ul cdef o gi gpi gfk jqi { jcvno cucp pgnkrgf Äv o x²ul gw²rgvÄpm
ul^atp{cn²uc c o qucpk pgj² | xkul qp{qm n³4³w o gi v³4l³p0 Euq^arcvq
gl c o k o x²ul k²rgvÄpn0 Kqf cno wpncm pci { o Änc xcp. fg o x²/
ul gw v²tp c pgi {xpgu²xgnki l>h²to^ap eucm o x²ul gnt n rj gv dg/
ul²rp k o ci {ct l²4f³4. fg o ci {ct o x²ul gnt n pgo ²u o²i ku c p{qre
wqn»²xw³gf gr²i xqrv c j jql. jqi { O vni eu². Rc^an N³ul n». U²ngn
Dgtvcp. Nqv M²tqn. Dgpe²wt. Nku v Hrgpe²u Gtngn Ut>dn Crclqg
²u \ cr. [dn Uglpn²u Uej wgm nkhgn fj guugpm 0 0 0 Xclj c hrguo gtp²
c pgo | gv. jqi { c | c ëP go. pgo. uqci. co kv c o ci {ct o x²ul gv c hqt/
o^am ul [¶]pgm²u j cpi qm pgo | gn³4 k p{gr²p nk²rv qfc c pci {xk³i pcm
c | pci {qp j cpi qu²u o guul ktg j cmvul kn0

C pgj² | xkul qp{qm p{qo cul » j cv³u³v ul gtlpvg eucm^a nco k v³o q/

i c^v ucn rj gvgw o gi hrgn o² t^v ndgp gp { j^v gpl0 Mrgdgn dgti vku^v /
 dcp xqiv c| |cn jqi { c o x² u| gv m² r² p² g² c euqprc qtu^a i u| ntg
 o² t^v gvg gw² rvgv gv u² i gk n² 4³ w. pgo rgu| o clf xcrcok o ci^a wⁿ
 vgp {² u| xcf xk^a i. jcpgo m² r² p² rgi gu i qpf q|^a utc u| qt w0 Gndqtqi
 c i qpf qrcvqo. jqi { F² Atgt cppcm kfgl² p xcn^u u|^p rgi c o gi hrgn n² 4/
 p { gl gv jk² p { c o kcw rgw o ci { ctdⁿ c p² o gv o x² u| gv xk² i pci lu^a /
 i^a x^a 0 eC| kfgi gp pgo | gvgm p² i { | gvtg go grkm nkx^a nu^a i ckn^v. ok o ci { c/
 tqm i {³ n² 4 ki { gmu| Apm dgn n² Am xqppk0 C o x² u| gvp² n c i {³ n² qp^a u
 c o k n² 4 Aro² p { gkpm n² 4³ w pci { qp gi { u| gt o xgng^v gr² i rgu| c
 v^o o qi cv^v uv o gi xqppk0 Rgf ki c vnc² t² nu^a i tc xcn^u jkxcv^u |^a ucn pgo
 rj gv o kpf gpv grk^v | pl# Mrgdgn dgti pgm^a ncr² dcp c| c i { cpAlc.
 jqi { c vnc² t² nu^a i jkfgv kd n pci { qp uqm gugvdgp pgo ku c j| c k² k
 ci i qf cmqo xci { c nkpeu^v t² tfngkpgm^a v² t² ug dgu² n jcpgo c|³ p/
 wf cvcp m² n² k² | qp { 0

M² u² i vrgp. jqi { c r| c t² u^a x^a fl^a v gnu uqtdcp c o x² u| gv
 r^a t² q² ucn ner euqrcvqu ncf^a uqm | Af² q² w² m Mrgdgn dgti hgl² t² g0 G| gp
 c rqpvp qn{cp n² p { dk qp { qu u| go r² rgo » f fcn o gi^a mer² | c pk c
 hrgn rgi gu² i gv0 Mrgdgn dgti v n² rrgp gl c u| go r² rgo » f^a m² rgi^v xq/
 rdd0 Gi { km o² n² w² lc v² n² cp lgrgo | k c o x² u| gv qrkknw Mrgdgn/
 dgti gv x² t² dgrk tgpckucpeg go dgtpgm cnkpgm gn qp q² u^a dcp c|
^a mco. o kv c tgpckucpeg/helgf gm² u h rcrqm w² fc o x² u| gngv
 hji r² m² | v² o cmq^v uqnev tgpfgn gu² o² ngv^a f u c o x² u| k cmq^v u/
 dcp u| kv² o ci c ku rgnk² i t² u| v xgu| 0 C| v ku go rgi gw² m jqi { c
 Ogf k² gm nq^a dcp ngrgw xqpc u| Argv² k². co knqt u| cdcf cdcp gr² i^v /
 jvgv xqpc nk o x² u| gv^a tvqⁿ u| gp xgf² n² 0 G| o kpf ki c|. fg c|
 ki c| u^a i j| o² i j| |^a v² t² | km cppcm o gi^a mer² |^v uc ku. jqi { Mrgdgn/
 dgti c² r² l² dcp x² xg pci { qp vnc² t² nu^a o ge² p^a u xqⁿ o kpf gp hkn² tv.
 co kv gttg c e² n² c fqw. i qpf qucp o gi h² ti cvqw u x² i gtgf o² p { dgp
 c| gugvgm v² p { qo » t² u|² dgp ki gp u| gt² p { gu² n² 4³ mgn r t² q² v² n² v
 hgn p gp u|² r gtgf o² p { gngv0 C dg pgo cxcvqw c| v jkv². jqi { kn² gp
 u|² r gv eucm pci { r² p | hgu² t² r² ugn rj gv r² v² gi q| pl0 M² p { vrgp xci { qm
 gi { nqtqpcvcp Av k² | pk I n² w² h² gf gt r² Ar² 3² n² 4. cnkxgn gi { Av n² 4³ w
² r² | v² gw² Mrgdgn dgti c u| gi gf k Vgo r mo / vtg² v0 C|² r² | v² gw² /^v tupcm
 cnk o ci c ku qn² uqm cmq^v uv j q| qv r² v² g² 2² r² v² dgp. o » fl^a dcp xqiv
 o kpf gpv r² v² k o kpf gpv gngp tk² pk= 3² u| gi cuqpr² | j cwc c| gu² n² 4³ w
 c| gr² tv gtgf o² p p { gn² v² ti { kci qucp o gi h² to² n² j cwc x² rgo² p {² v c
 o k² u| v² t o » fu² gt² t n0 eU| gt² p { gu² n² 4³ m dkt² v² n² dcp pci { qv cmq^v pk
 ô | lc ô k² rvgw o x² u| gv nkx^a nu^a i qu u| gtrg0 U kn² hrcf cvq xcn^u /
 u² | qw o gi Mrgdgn dgti c| wf qo^a p { qu² u m² n² k² r qrkkn² l^a pcm u| qn² /
 i^a r² v² dcp0 P go c| kn² q² m u^a o c. pgo c tgpfg² r² ugm v² o gi g. pgo c

ul gngo k 2rgv qtu^ai Ìl^atc vtgrv vj gw²i gm lgrgpkm c| o kplu vt/
 nfg²u²pgm 2t²v n²v 2u vctw²av jcpgo jqi { o kpf gj jgl nji gv u²i gv
 qn² kf dgp vñ²nv co knqt c o ci {ct o gi 2²ij gv²u nji gngo kdd hgn²vgrg²tv
 xqrv n²p/vgrp pcr/per w²p m²f gpl⁰ U jqi { gtgf o 2²p {gkdp uqnu qt
 v²íd xqrv c vñ²i n²q²u²i. o kpv c r²p|. c|v pgo gi {u gt grgrgf v²m
 xci { r²vi cf v²m fg gl xqrv Mrgdgnudgti Mwp» g²ij kxcv²u²i^a pcm nji/
 gt ugdd dk qp {v²nc⁰ Mgi²u² v²jk gl v c vcp²u²i v²gv² c u² gi gfk gi {gvgo k
 2²r²v dk qw²i gi {km qn²cp vci² pcm p {k²cv²u² c². cnk dgppg 2²nv c
 ic|fcu²ik 2²rgvdgp u cnk jkxcv²u²p²n hqi xc c nji rqpvcddcp wf j c².
 jqn ngl f fkm rí⁰ gi { 2²r²v²ng² 2²up²n c r²c|ctí²u⁰ Vcp²u²i v² j²klc hgn c|
 gi² 2²u² qtu^ai n²4 x²2²rgo 2²p {g gn w c| 2²r²v² dk qw²i xc²o gpp {k vci/
 l²v c²ppcm dk qp {v²u²tc. jqi { Oci {ctqtu^ai qp o 2²i u²ij c pgo 2²r²v²
 v²gwm qn²cp hñ²tgntg o gp vñ²et²nqu²i i c n² 2²u u²ij cugo j q| v²m í²tg
 xku qp {nci eugn²n² gul n²4 3²amgn qn²cp o x²u² k 2²u nwnw² rku 2²t²v n²ngv.
 o kpv c uqnevgo nji gv²wu² gi gfk O^a tñ²v²t v² l² n²p⁰

C vñ²et²nqu²i itc xc» v²4 gm²u o gm²w. co gn² tkñ²p u² qn²q w c
 o x²u² gr^a tvqí²u xgrg² l²tc rppk o 2²i gi { hgn² p lgrgp²i^a n²er²v²/
 j c²» o gi Mrgdgnudgti o x²u² gw r²ikñ² l² dcp < c r^a tv² v²pu²i. rqp/
 vquddcp c o x²u² gk r^a tv² m² f gm gm h²4² xc» go gm²g²u⁰ G| ku pci {qp
 tkñ² i gul wu c o x²u² gr^a tvqí²u v²4 v²pgv² dgp⁰ C o kplu vt. cnk²pgm
 o kpf gp o x²u² gk^a itc 2²u k^a p {tc xqpcv²u² »nci vcpw^a p {ck 2²u v² í²ug
 cr²r² l²p pci {qp j c²v² tq| qw gul v² v²nc² k j kxc²ñ² uc xqrv. c o x²u² gv
 r²ikñ² dcp pci { o 2²tu² m²gvgn tkñ² d²4 eug² i i gn rgo qpf qw c o ci c
 v² í²u² pgm 2²tx² p {gu² v² u² t n u gn²ñ²pv^a n²ñ²qwc o ci c gí² c| 3²u² gu v²ij gv
 u²i gm r^a tvqí²u² v² d² to kñ² gp o x²u² gk k^a p {j q| v² v²q| | cpem ku⁰ C nji/
 pci {qdd 2²t²v n²gm n²4² u^a o v²qwc c o x²u² k u² cdcf² u² i q² Xqrv gddgp
 c^a n² í²uh²ji n²ñ² u² dcp xc²o k c wf qo^a p { 2²u o x²u² gv nji d²gn² dd. nji/
 v²ñ²qu² d d 2²rgv²4² v²grkv rqpvcup kuo gt u² gngo k go dgt u² cmu² gt /
 u²i² d n fg xqrv c hgn² u^a n² u² dcp í²x r²ikñ²ku r²gn²kuo gtgv²u²i²/
 d n ku⁰ C u² cngo dgt. c v²4 v²pgv² hñ² {co cvqm kuo gt lg pci {qp l²n wf² v.
 jqi { n²ñ²4² p²4²gp c o x²u² gv²m dk² qf cm^a dcp c lgrp h²ttcf cm^a tck
 pci {qp i {cntep ct^a p {nci t²4² kf crw m²cu² k²nu² qm² n²ji gv²pgm
 c r²ikñ²ku o gi u² l²pv² g²n²4² euk r²tdí²o^a v eul^a n² cdd² n jqi { c|^a n²o
 r²p² p ugo o kñ² r²rp gt cxcv²u² |² m dgrg c| gi {gu k^a p {cvqm j²ct^a dc.
 co gn² gv x²i gtgf o 2²p {dgp pgo c|^a n²o pcm jcpgo c| kf pgm n²gm gn/
 f²3²pv²gl⁰ Pci {qp l²n wf² v gi {2² dn² pv vcpw^a p {ckd² n c|v ku. jqi {
 c| kñ² gp dgcxcv²u² ^a u²cn cr²qucp o gn² nji gv hqi pl⁰ Pgnk o ci^a pcm ô
 o kpv go í²gvgo ô ki gp j c²v² tq| qw gul v² v²nc² k gr²gk xqncn⁰ C hñ²v²/
 u² l²gdgp r⁰ n²v²gi qt²kmwcp pgo u² l²gtgw c hww² k⁰ o wuv 2²u mvd² k⁰ o wu⁰
 O^a t c|v ku i {cp²u² pcm vñ²nc. jqi { c o qf gtp hñ²v² u² gv gn j²cte²quck

qn{cp i{cmtcp p{Àpcm c vqñj q|. jqi{ ktqfcm kci dlk qp{¶u^am k^ap{/ |cwm jgn{gu²i²v0 èC| kic|k o x²u|gvp²gm p²peugp u|Àm²i g c| kn{gp gu|v²vk²/ktqfcm k vqm^aeuqf^autc. c| n²4xgv²gp hqtfwn c u|gojg|²u c u|²r²u²i gtgl²xgn ngm jqi{ n²ercek²rdqp0 C| ugo v²u|gw pgnk jqi{ g| c| k^ap{ Àhclvc v²tucfcm k oqt^an²u Àhclvc o xgn²i²gv cnet jk/ fgv²pk l²u²i² u c u|²r²u²i 3/43/4n gu|o²p{gk p²m²À0 |rr ¶|{ pgo u|gtgwg r²0 c| cvq^arku |gp²v0 Ogi gpi gfvg. jqi{ c |gpggm²rgv wf²uc c nqo/ rqi|¶ek²dcp. c t²u|rgvndgp. c hqtfw²vqndcp. c| k²u²wo gp²ek²dcp c u|cn²go dgt u|go²xgn m²Àr²p²gi gu²t²v²ngngv v²ñ²n c o w|uk² jk²c²v²uc c|qp²dcp u|gtk²vg o²i ugo c|. jqi{ g²go|²uk c²nr qv cflqp c |gpgwf²u/ uqnp²cm o²i c| ugo. jqi{ èc f²gm²f²g²pu go dgt r²c|k f²gi u^amkv o g²vgt/ u²i g²gp h²g² À|c ì< c |gp²p²gm u|gtk²vg c| gi²u|u²i gu go dgt²gm u|^a|gtk² ngm i{3p{3/4n²4 v²pl²g0 Fg c|²tv pgo lw²q²w xq²pc gu²d²g o x²u|g²v r²qr²kn²l²dcp c o c²ic ¶|r²u²p²gm² 2²x²p{gu²¶²ug0 G|gp c r²q²v²q² g²np²mv o k²f²gp g²vg²gi gu²t^ad²gu² 2²r²up²gn0 ìM²q²|gt²x²c¶|x det^av²ck² n²4 Àn v²d²d²gp n²tf²g|v²m 0 0 0 o k²tv pgo r²r²vg²o h²gn j²c²v²cm k gu|n²4 3/4m²gn c| ktqfcm k² u o x²u|g²vk o qf²gt²pk² o wu g²np²A C|²tv pgo. o g²tv j²k²d²x²cn² r²gw xq²pc. o g²tv c u|g²m²go v²4²v²pg²vg x²k²i qu²cp o w²v²lc. jqi{ x²cn²j^ap{u|qt c|^am²o j²c²v²cm k gu|n²4 3/4m²gn cnet d²gr²c²x²cn²¶|pk ktqfcm k xci{ o x²/ u|g²vk x²k²ndc. c n²¶²r²tr²gv²np²gm uqtuc m²w²cte r²gw² u p²gx²u²i dg h²w²cf²v0 C u|g²m²go k x²k²i dcp c|^am²o u|Àm²i n²r²rg² dtw²rku n²g|²v n² 2²tk²vg²v r²p²Àn c| gt ugdd i²q²f²q²rc²v²cm ngm u|cd²cf²q² i{ |pk²g0 C l²qi qu^ai n²tf/ f²2²u²v pci{q² gi{u|gt gp k²v²|k g²r0 O^au c|. j²c x²cn²k c ucl^av r²p|²d n o ge²p^au^aq²f²km² u kuo²v o^au. j²c c|^am²o r²p|²p m²w²Àr²qr²kn²v k²ng/ v r²gi o x²u|g²v r²qr²kn²v euk^ar²0 C o c²i^apo ge²p^au c o c²ic r²p|²xgn Ài{ t²g²p²f²g²m²g|km c²qi{cp pgnk v²u|km qn{cp n²r²g²ngv t²g²p²f²gn co k²ngv u|¶k²g²gp c²ne²u|v h²gn u|qd^ak²dcp0 J c² r²rg²gp gu²d²g lw² c| c²d²rc²np² ku nku|>t²j²v²lc c r²p|²v0 C m²w²Àr²qr²kn²wu c|qp²dcp n²4 r²p|²gm²gn u²h²t/ n²q²f²kn0 V²w²f²pk ngm pgnk jqi{ c| ¶|r²ugm o gi qu|rc²pcm c|v x²u|q²v pgo w²f²j²v²lc. jqi{ c l²3k² gu|v²vk²ck o²tr²gi²p c l²gr²p c²m²q²v²uck o k²f²gp u²Àn{v l²gr²pv²gp²gn0 V²g²i^a vo^at eucm²g|²tvku x²k²i {^a|pk ngm0

C o q²pf²q²v²cn²l>n o^at pci{q² n²4p²{ r²gu| g²rk²q²ppk M²rg²d²ng²d²gti i{c²n²q²tr²vk o x²u|r²qr²kn²l^av< v²o q²i cv²pk ngm o k²f²gp v²g²gu²i gv. fg pgo u|cd²cf² d²gr²c²x²cn²¶|pk c o x²u|g²vk k^ap{qm j²cte²kd²c0 O g²pp{kt²g l²ng²o| g| kuo²v c| twi²cm cu. j²cl²r²n²q²¶|. o gi²tv gi{²pk²i²tg²# T^ao w²c²w²pm o^at o^au x²u|q²p{rc²dcp ku. o g²pp{kt²g o gi²tg²vg. jqi{ c x²k²i pgo^amv o gi. h²gn f²km u c r²qr²kn²w²pcm gi{km gn n²4gr²gu²i g c h²gn f²u u|Àm²i r²vg²lj g| x²cn² c²m²cm c|n²q²f^au0 Co k²n c|cn u^ao q²ppk ngm c²w²n g²ru|gt gp g²r^atm²|pk v²g²i^av c o x²u|g²vd²gp ugo r²g²v0 C h²teuc u|gt²v²rg²pu²i g²nv n k²w²|q²w. fg g|g²nd²gp ku o gi u²g²vk c o gi x^an²q²q²w x²k²i/

u| gngo gv. co gn| u| gtlpvg ëř j cvcwpwn 2tg| vvk c o ci c hgnctv| xcv/ j cvcwp j cvř uř v 2r ƒ u| gvdgp. hgu2 u| gvdgp. u| qdt u| cvdcp. u| 2r/ kqf crqo dep. u| gngo kwf qo a p { qndcp 2 u vto 2 u| gvgupp c | gp2 dgp ku

O a t wcnwpm t a. j qi { Mrgdgnudgti gn | gvu vpw a p { ck uqt a p c nri vř ddgv c | 2r ƒ u| gwgn hji nrmu| qw0 C i { cmuř vdep ku c | 3 u| gu o x 2 u| gvgm nř 4 Ān c | 2r ƒ u| gvj g| h | v g c nri dgp dd nř euqř v0 P go eucm c | 2 tv. o gtv uqm 2 r Ārgvgv go gmvgw0 Xcpcem 2 r ƒ vgv m cnkm c | gi 2 u| d n eucm c | cp { ci k t 2 u| v ř v a n0 Mrgdgnudgti gi { Āw 2 r ƒ vgv c r c nř tqmnen c u| cnk r ctquqmmen c | gn o w p nř uqmmen u v c p c r u a o q / uqmmen0 — p0 r c u u| k p a w u 2 r ƒ vgv x q n0 Co kp v wf qo a p { r q r k nř l a / dcp o w p nř v t u p c m v n k p v g w o k p f g p wf » u v u q m u | q t o 2 i c | gi 2 u| g p h l e v n wf » u r c i p v n e v k u. c o x 2 u| g v r q r k nř v 2 u o x 2 u| g v a t q ř u v k o d a t o k n { g p p c i { p g j 2 | u 2 i g m g m p 2 t g o g r k u | g t g p g i { Āw e u k p a n c c | 2 t f g n g n g m r i 0 G | v 2 r g v x 2 i 2 p g i { k m e k m ř d g p. o k p v o j g n { v k n u v. c p { k x a p q u a i g n w k u n h l v g w < ë J q i { c w f q o a p / 2 u o x 2 u| g v k r q r k n e o g f f u 2 i t g p g n i { g p n ř t j q | v e c. c p p c m g i { c v k n e 0 C o k / p k u | v t x c i { o a u o x 2 u| g v k r q r k n w u p g c n e t l q p v ř d d n g p p k o k p v r t k o w u k p v t r e t g u. c n k g i { Āw f q i q | 2 m c o x 2 u| g m g n ƒ » m m e n w f » u q m m e n k r c t n u f l 2 m n g v o g i 2 t v g p k k r c t n u f l 2 m j q | | a l w m g o d g t k / n i 2 u d e t a v k c i n ř 4 g r e f p k j q i { n h e l n f l 2 m n ř 4 v Ā m c | c n e r e u q ř v. c o g n { p 2 m Ā n c o c i c u o x g m 2 i x k ř i a d c p p k p e u v t o 2 n g p { o n ř 4 f 2 u 0 G | v c | 3 u | g o n ř 4 2 u v M r g d g n u d g t i q n { c p r u | k e j q v e j p k n x c n e u k / p a n c. j q i { c m Ā ř p d 3 4 h j i n e m u | a u Ā e m o k p f g i { k n g o c i a v v e t j c w c c o k p k u | v t 2 t f g m f 2 u j g | n i n ř 4 g r e d d a m p c n 0 G i { k m 2 r ƒ u | / o w p n e / v ř t u c r n 0 o g i x q n v c t t » n i { | f x g. j q i { M r g d g n u d g t i p g m c n i p e i { q d d n g m k h g n Ā ř Ā ř u v c | 2 r ƒ u | g m g n x e n n ř 4 3 u o w p n e l g r e p v g w 0 G d d g p n e j g v x e r o k k i c | u a i 0 C n k n ř w e v u | k p v g m u | v k n w u n ř g m g n 2 d t g p a m q f q | x e v t x g | p k c v t x g n v x 2 i k i x k u i a r p k c n k p g m c m e m c x q n v c | 2 r ƒ v d k q w a i q n d c p o k p f g p t g n k e t l g f h i { g m 2 v o g i d a o w p k c n k 2 r ƒ m g | 2 u n ř 4 d e p c | a m x a p { q n u p h Ā i 2 p o q | i » l ř t e f j c w e p o k p k u | v t o o k p v j c x c u d » n r g w x q r c o n ř 4 g v j g w c. c n k x g e g i { Āw l a t v c | Ā l 2 r Ā r g v m v t o g k d e p. h q n { q u » k p. c | a t n i f q m c r w c o k n u t c o a t d g h e l g 2 u g n w a m c m u v u o k p f g p t 2 u | n v 2 p g m m Ā ř p 3 4 Ā n u u | k p v g 3 p h e r e f v g p w l q p i q w. j c x e r o k m Ā ř p r i g u p u | 2 r g p u k n g t Ā n. c | g | v c n ř w a p { v u j c g n p g o h e n l v 0 K u { g p n u t x e n d e p c o k p f g p u | 2 r. e 2 n u | g t . j c u | p q u c m u v u 2 t v t e l q p i » t g p c k u c p e g / g o d g t p g m u | k p v n q t u | g t v g p d g p { q o a u v n g n g w 0

Uqnev pci { q p uqnev 2 r ƒ v g w 0 C p c i { t q o d q n u. x g u | v u 2 i w p uqnev n g m g w r » v n p k t g u e v t a r p k 0 P g o j k a d e v t v q w c c | g i { 2 d n ř p v q n { c p u q m o g i r t » d a n e v u v t g a p m | Ā ř ƒ » v t k p q p k o c i { c t v ř 4 v p g v

u|cncu|v c| ëÀl^a2r[¶]uì nqt^apcn0 C u|gi gfk²u fgdtegp k gi {gygo k
 2r[¶]Árgvm c ux^adj gi {k eukci xkⁱu^an». c vkj cp{k 2rgwcpk mwc» kp^v|gv
 c i³f³m k²u c u^atqurcwnk i k^op^a|kwo qm c uqm Àl^arg^ap{kunqr. c o²i
 v³dd rqi^atk kunqr. c| ³agl gt p²r[¶]kunqrk qdigmwo. c hfggwu|qfc u
 o²i cpp{k o^au< hgnqtqpk ku uqm ngppg0 J cr^ap{ n²r[¶]gv cfqw pgo c
 o w^onⁱt>n eucm c| gtgf o²p{gnt n c jci^an w^op tgpfg|gw nk^an[¶]u^o
 |rgvg j[¶]xv c Zk0 pgo|gwi³k 2r[¶]v/nqpi tguu|wuv. co gn{gp c ucl^av
 2r[¶]mg²ugk n²u^anci^adcp c| 2r[¶]wgv o w^one hqpvqu^ai^at>n dgu²n0
 Pci { i qpf lc xqiv c tgucw^ai^auqntc0 J gn{tg^an[¶]wc c Pgo|gk
 O^agwo tgo gm rciq^av. tgucw^ancw c dctqmm 2r[¶]v|gv tgo gn^v.
 c| gi {gygo k vgo riqo qv ô gl v c o w^onⁱv Eugtpqej L²pqu c vgo riqo
 u|»u²nⁱt n nⁱ4|³pv o gi c o k^oku|vtpgm ô jgn{tg^an[¶]wc c dwfck
 U|gpv Fqo qnuu|vtp{qv u c tqo rcfq|» xk²nk go r^ongm gi²u| uq^av.
 c| »euck tgh^o wu vgo riqo »n c| gitk o k^otk³m h^oqo vgo riqo/
 2r[¶]Árg²ki0 U o²i o k o k^opf^ogv v^otxgl gw# Pci {qp d^apv^o. j c xc^ok
 2^tv^ongu go r^ongv grj cp{ci qiv^aner qv^oci n0 M^ah^o h^oi n^ou|qw
 r^o c f^ouⁱ{ tk²u c xk^oi t^afk tqo qm tgpfdg|q^au^axc^o U^ao qpvt^o.
 jqi { Xk^oi t^afq c U^oco qp/vtp{qp n[¶]k^o xcp o²i gi { o^aukm t²u|
 ku. h^opv c h^ongi x^atp^an c| gtf dgp grglw^o. gi { ner wqtq|. co k
 v^oci p o gi o gpj^ogv ngu (0)

C| gi {gu 2r[¶]mg²ugmgn ner euq^ov^oci o k^opf^oki gi²u| o gi q^or^auqntc
 v³4ngf gw. xci {ku c n³4p{gl gv u|go o gn^oct^vu^axcn x^atqu|u²r²u|gk
 u|go r^oqvd>n ku jcto qp^ow^av cncv cm^oq^op0 U|kpv u²tv^ogw c u|go²v.
 j c gi {/gi eugpf^ogu xk²nk x^atqu we^ai^apcm jcpⁱw^ov xc^ok ëfk/
 eugnⁱ 2r[¶]Árgv grt^opv^oci M^ah^o3⁴up tqu|wn²tg|v o ci^av j c gl c|
 2r[¶]Árgv o²i j q|^a xc^ok^a m ci {ctqu. u|gegu|k^ou. u|p^ogu eugo r^o/
 dgtc^ouqmmen u^oq^od^oq^oq^o ¶|r^ovgn^op^oi xq^o0 C| 2r[¶]Árgv k grku|gt gp
 Ài { n²u|Ángm jqi { ngf xgl gp h^ol^ogu²m vx^add c x^atqu gu²v^onk
 n²r²v0 f^onci^adcp hqpvupcm v^otv^o. jqi { ëh^ol^of x^atquck^om tgpfg/
 |²uk v^otxgldg c| gu²v^onk i qpf^oq^ov^o ku dgr^oxli {Án0 J c o^at c dwf c/
 r^ogk v|h^ocn^oq pgo ugi ¶j^ogvw²u eucm w^onci³pvj^ogw u|cx^ond
 h^ong^adqtq^au^av c|qp. jqi { c x^atdgk j qpx²f u|q^odt o³4 Án ngd^opv^om
 c Octe|k^ap{k^j^a|cv u jgn²dg ô c v²t jcto »pk^oi^av v^opn^ogv^oxg ô
 v³4dgo gr^ogv d²tn^ou^atp^av go gr^ongm ngi^oci^odd qw^anv t²ugp. c jn
 v^ogv^o< c xk²nk x^atqundcp0 C| 2r[¶]mg²ugnpgm c| gn^oq^oq^ouc
 u|gtkpv pgo|gk o xgm^o ng^ongw pgo g^ogf^opk^o0 f^onci^adcp c| xq^ov c|
 gr^og. jqi { c m^owu|v^otec 2r[¶]mg²ugk o k^opf^ogp^oÁw kng^ongf lgp^ogm dgr^o
 c x^atquqm n³4p{gl^ogv²dg²u u|gm^o2dg< Gi gtdgp r^o dctqmm²u t^oq^onm/
 u^o¶mudcp. Gu|v^oti qo dcp ô c dc|k^onci^o xc^o v^onk^opv^ogn ô pgq/
 m^ou|k^onu u^o¶mudcp c^oi^opv^ou|gtkpv²r[¶]mg²pk0

C x^atquqm o gmgw 2^rÀi { i qpf qw c hrcntc. o kp v c j q i { cp c pci /o x²u | gv o gmgw r^at^vhⁱa^udc xgw c p²ro x²u | gv⁰ G u | go / r q p v d n u q n e v o q p f c o²n { t g j c w i q p f q u n q f^a u . c o g m { g n c h c n w k k u n q i^a m 2^rÀi²u²tg h g n^À { g n⁰ D³4eugp w f v c . j q i { c | k u n q i^a p c m c n i v^Àd d g u g v d g p c v g o r m q o w^p c h c n w n i p c i { q d d 2^rÀi²u²g p g m g i / À v e n c o » f q u c d d i c l f^a m j^a | 2^rÀi²u²g t g k u t g p f u | g t k p v p c i { c j c v^Àu⁰ C n k r p e x g p g u 2^xg m d g p r i⁰ c p²r k u n q i^a c k u l c d x^a p { v g t x g m c j^a | u² | r g u q i f c i^v h q t f^À q w^a m c | w e c h g i² u c | q p p e n g l n g w c h c r c n t d c p c | è g n / n g n i 2^rÀi²u² . r g f k i p c i { q p o g i d q p v q w c . u q m | q t g n k u e u^À q w c c | w e^a m c f f k i k n^r2^v0 M i g d g n d g t i À { g n t^a . j q i { c | À k u n q i^a m g l À v e n l q d d o k p^v v c f l c p c m u o g i d^À w c c v g t x g | n g v . j q i { o x²u | k o » f q p j c u | p^a n^a m h g n c | g i { g u x l f² n g m j^a | 2^rÀi²u² g l p g m p g o g u g d d o q w / x w o c k⁰ M^À n^À p³4 u g p c p p c m 3⁴ À n . j q i { c | c p p { k t c w^a n v | h c r c n e v u k n g t À n g n^À p v g p l e⁰ K u n q i^a k p c m v g v l g n k u² h g m c i c u q f q w u c d g r^r2^u c | 2^rÀi²u² g d g o k p f k i n k u d q n j c l^v u q u v q t p^a e q p n g t g u l v^À n v³4 v² p⁰ C | k i c | . j q i { g l c o g i q i^a u x c r o k x g n v³4 d d g n g t À n . f g c | v t g o² n g . j q i { g p p g m t² x² p o c l f n q t t k i^a p k w f l c c | v c h c n w n^r g v . c o k v c n k r p e / x g p g u² x g m è r c n² t u^À p w u c i c r r q u c p g t q p v q w⁰

.. u u | g u 2^rÀi²u² g k n³4 À n p c i { c t^a p { c k o g m g w o x²u | k g i k u c | g i { k m n i u k n g t À n g d d x q n c u | g i g f k V g o r m q o / v² t⁰ K v c | 2^rÀi²u² / u | g n T g t l e j D² f² x c n g i { À w n g t g u g 2^u o g i v e f n e c c | C i h³4 f è o q p w⁰ o g p^v k u i 2^rÀi²u² c p { c i^a v o g n c | q w c p p { k t c j k p { | » v g t o² u n³4 g v r » q i j c w c < c M i k p n g t / v i f² v⁰ O c i c M i g d g n d g t i c | 2^rÀi²u² g w³4 o d³4 À i { g o n i g w g . o k p v è c o c i { c t v g t x u | g t u² i p g m 2^u j c t o q p k n w u g i { À w⁰ o n³4² u k n² u l u² i p g m g i { k m n i u | g d d o g i p { k r c w q |^a u² v⁰ C h g r c f v o g i q i^a u² t c u k n g t À n 3⁴ u l g i c p i q p k c |^a m e o q v U g i g f x^a t q u^a v 2^u c e u c p^a f k r À r 3⁴ n³4⁰ C | w w d d k v . o k p v n i j k g r e g u d d n q t q p c v c p À v o^a t o g i u | » r e n c w e o c M i g d g n d g t i v n g r i q p f q w 2^rÀi²u² g m n³4 u² i g k g x q p c w q | » r i⁰ C o k n q t c v² t g m² u l À n . c o k p k u | v g t h g m g p v c | c m q t o^a t o c i c u d c o g t g f h j i c f c m k v g o r m q o f² r k v q t p^a d c . c j q p p c p c | 3⁴ u l n² r g v n i l q d d c p^a w g n k p v j g w u q w g i { g f À n o^a u l² n » t^a v v³4 n³4 v . q p p c p u | g o i² r x g c e u q p n c q t u l^a i^a a r f q | c n² u l u² i² d n i² v t g l³4 v n i h p q / o c d d 2^rÀi²u² o x²u | g v k c m q v² v . ô c | c m q v² u² v⁰ C h g r c x c v² u t c t g r À n / i² r g p w c | q w U g i g f t g . j q i { u^a t p { c i^a u n³4 d g p o g i g n | g p x² i k i / v g n k p v j g u g c | C i h³4 f 3⁴ p u² v u | » t v À l p² r k u n q i^a m u^a | c k v 2^u u^a | c k⁰ C V g o r m q o / v² t h g r c x c v² u c 2^r g v² p g m p c i { p e r l c x q n c c d g v g i g u^À n² u À p p r g⁰ H g r k q p w n c m o k p f c | q m c n k p p g m t² u l À n x q n c o i² v t g j q l^a / u² d c p . c |^a m e o h v n 2^u c o k p k u | v g t v n c | g i { j^a | 2^u x^a t q u n^r x l u g n k / v n n g l f x g c | w q n » p e r u l^a o q u k i⁰ Q w x q n c m c o x²u | g m k u c 2^rÀi²u² m h e u v m u | q d t^a u | q m k r c t o x²u | g n⁰ Q w x q n c m c | g i { g v o k m^À r 3⁴ v

u²i gm c fl² nqm c rqi^a tu^a i⁰ O kpf gpnkpgm ²tg| plg nngmw. jqi { c| cmq^w i² plxul wⁿ o gi ul gtxgl gw pgo | gw 3⁴ul ghqi^a u² u² a² if qi cwi^a ul u² i² Ārlqi qu³ pwf cwnc o ci c pci { Āppgr² v⁰

C| ²r² f²mg|² u² c| qpdc² o² i² pgo o kpf gp< c| ²r² Āngv² m f² f² ul² / p² n ul > j q| lwj c² p² cm c v² ddk n² r| o x² ul gv² m ku. h n² i c ul qdt^a ul cv² u² hgu² ul gv⁰ Mfgdgn² dgti o x² ul n² gm² u² r^a tvc² p o x² ul gv² r² qnk² n² lc c n² j gv u² i j g| n² r² guv c f² f² ul² p² n o kpf gp r^a tvq² n² utc ²tf go gu v² j gv u² i gv ul > j q| lwvc² v⁰ Co k² v c M² r| o x² ul gw² H kum² n² p c n² i v² t/ i {kci qucdd n² i qpf q² ucn c n² q| gtxc² v² k^a p{ o n² gw ²tx² p{ gu² Āpk gpi gf v² ô o k² p gp r c² t² co gp² k² kv² tr² gn² ek² m² gp² t² g ô c o qf g² p k^a p{ | cv² m n² r² x² l² gn² kv ku. Āi { n² r² v² m v² r² o gi d² ul² v c n² i n² Ā² p d³ dd o x² ul k² k^a p{ qm j c² t² ck² o Eucm gi {tg r c² p² ul² n² f² qw o k² p² k² < n² gx² u x² qv c o x² ul gv e² r² l² c² h² t² h² q² f² v² cw² r² p| # C| 3; 4: 14; 0k n² Ā² i x² gv² / dgp c n² r| o x² ul gv² m v² o qi c² v² t² c r² i⁰ 362.222 R lwq² v⁰ Gdd n n² gm² w x² q² c h² f² g| pl² c x^a u² t² i² u² q² n² p² u² o gi t² gp² f² u² gn² p n² k² Ā² c n² Ā² h² f² k n² k² n² i² u² qm n² Ā² i² g² l² ku⁰ f² n² c² d² p n² gx² u² p² gm v² r² c c o x² ul k e² r² n² t² c ul^a p² v f² q² v² ek² v. co gn² p² gm n² i² pci { qdd t² u² v² h² n² go² ul² k c n² v^a n² eo k ul² p² j^a u² c p² i { o x² ul gw² kum² n² o J c g| gm² v c v² x^a dd pgo e² v² m² p² j gv c² r² v² v² gm² v c| gi² ul h² f² g| g² v² n² n² x² p² l² c. c| gi² ul q² tu^a i o x² ul gv² r² qnk² n² l^a t² c p² p{ k ugo o c² t² c. o k² v co g² p{ k² gn r² i⁰ g v² v² p² n c h^a x^a t² u² t² gp² f² gm² | k² n⁰ C| ²tv² 3⁴ Ā² c| gu² v² i n² Ā² p n² r² qw 3⁴ ul gi gn² p² n⁰ X² to gu² gdd t² go² p{ g² k² gm v² r² i² gu² Ā² u² v c| qpdc² c r² p| / Āi { k² j gn| gv² pgo v² gw n² j gv x² 0

C hgu² ul gv v² t² p c v² Ā² v² p² r² go ul g² t² r² o g² c n² i ul² k² g² u² gdd² p² a² f² q/ | qw v² Ā² v² p² g² k v² t² i { Ā² h² gum² n² t² c⁰ Pci { j² k² p{ p² cm v² t² c. jqi { c o Ā² n/ d² c² p. c n² Ā² gm Ā² d² c² p ku. c h² p² v² qucdd gu² go² p² { gm o x² ul k o gi 3⁴ Ā² n/ v² u² t² n pgo i q² p² f² qum² v² n⁰ f² { c| w² p pgo c² r² n² w² j cv² w nk p^a n² p² m gi² ul u² i gu v² Ā² v² p² g² k hgu² ul gv⁰ Gi { km o x² ul gv² r² qnk² n² ek² ek² m² d² gp nk/ h² l² k² ě² j qi { Ā² ² r² v² g n² gm n² gn² p² Ā² m v² Ā² v² p² g² k hgu² ul gv² Ā² n² gv. o g² t² v c v² t² i { p² m² Ā² i² gv ul k² v² ul g² p² x² gn² . o gu² v² t² i² gu² p n² t² gu² u² gt n² gv² g h² q² i v² w² m² co q² f² g² p o x² ul gv g t² u² d² p ugo o kv ugo w² p { Ā² v² p² k² o P² cux g² p² t² i² k² x² n h n² i v² t² u² c² m² k Ā² q² v² t² go v² gw gn ô ě² Ā² ul g/ x² eu² q² t^a | v² i ô c| Ā² Q² ul^a i qu N² x² n² t² cv f² f² ul² v² h² gum² m n² Ā² i² g² k⁰ Gi { km ek² m² d² gp o gi j² c² r² q² p² v² i² c² n² u² h² i { g² r² o gn ku² g² v² g² g h² gum² v² t² i { c² k² r² i² ul km o g² p² p{ kv h² j² m² q² w x² gn² Ā² o C| Ā² gi { g/ v² o k² ² r² Ā² ngv² m ku o gi n² r² v² m c o ci w² n h² gum² k² < R² eu. U² gi gf² u² F² gd/ t² geg² p⁰ C| w² d² k x^a t² qud² c² o v² k² w² qm F² gd² geg² o Ā² m^a d² n c v² Ā² i² x² k² i² d² n Euc² n² p² c² k² ² r² v² d² n c J² q² t² q² d^a i { x² k² i² d² n x² v² v² n⁰ H² gum/ n² v n² r² qw c i² 3⁴ 3⁴ m k i k² o p^a | k² w. c ul gi gf² k n² t² gu² v² n² r² q² p² c. c d² euk v² v² t² r² c² n² c⁰ C| w² d² k j² gn² gp o gi h² u² w² v² c v² v² t² f² n² v² u² M² ku/

hcnw{ U pfqtv c wuv trcnyc ngtv²dgp0 O²i c wj cp{k ²ngwcpk kp² | gv
ku ncrqw o gi hgnn v²ti {Å n²r gw0 Ctte ku i qpf lc xqnx jqi { c m²n²4f k
n²4gw²i gm u^ao^atc c | ^amco tgpul gtgugp x^au^aqrhc c oci {ct o /
x²u | gmn²r gk0

Fg c u | qdt^au | qm ugo r epcu | nuf j cwcn0 U | qdtqm²en f | u | f | gwg c
wj cp{k kp² | gwv c ux^a dj gi {k eukni xk² ui^a n²v. c u | gi gfk gi { gwgo k
²r Ångvm n²4 Ån gi {p²j^a p {cv. c f gdt gegpk gi { gwgo gv. cj qn c h ²r Ångv
gn wk uswctg/dg ²u c u^a | jcto kpej qrf cu n²pk²nc k vng²r Åxqpcrc²pcm
ngtgu | w²u²dg ku u | qdtqnev u^a p²0 C | n²mgug²ug vgtgo wgv o gi
M²m^a p n²k^a n²k j gtegi pgm c rtgo qptgk²m l²wx l²pgm i²4²3²m k u | qd/
t^a0 W | cpeucm n²g²fgo ²p | g | w | c | r | I {²4i { pgo gu gi { u | gt u²i
f qo d²to x²v. co gn² c u | gi gfk gi { gwgo c²rc r²u²v ²4²3²m | gwg o gi
u | gi { kmu | gi gfk gi { gwgo k²r Ångv hcn² vf | u | f | k0

Gi {kn n²i hgn p dd cmq²uc c u | gi gfk Vgo r m²o / v²t ²r Ångv k²pgm
^atn²flck c²w grj gn² | g | gw Pgo | gw Go r² n²euctp²qm c oci {ct pgo | gw
ërcpj gq²0 C u | qdtqm ²u go r²n²o xgm c oci {ct wf qo^a p {qu^a i. c
o x²u | k ²u u | gngo k ²ngv n²k^a n²u^a i c²pcm c v²4²v²pgk pci {qnp²cm go r²/
n²7 v j k f g²kn0 C | gn² i qpf qn² u ²u c n²k²xgn ku² v cpp {k²c l²gng² | M²g/
dgndgti tg0 Ut»dn Crclqu c²pcm k²gl²p ctte i qpf qnx jqi { c dw²c/
r gw²k Grtgun²gdgp hgn n²ng²pg² ^an²fc²pk c l²rgu oci {ct o x²u | gm
u | qdtck0 V²4²d u | qdtqv gn ku n²u | f | gw² < g | gngv M²gdndgti o gi u | g/
tg | w²0 C vx^a ddk o^at n²4pp {gp o gpv < ukng² Åv c | g²gf gw² c²rc qv Åcdd
o gi tgp²gf²ugmgn ²u x^au^a t²if uqmen c²pp {k²c n²gi ²u | f | gw²g. jqi { o gi/
xc»uwj cvw c pgo | gw² r c²pvj gq². co gn² pgm vx^a d²h²l²ng² u²v² o^at
tgp²g²ngvgn u | cd^a n² | q | w²0 M²gdndgti c dq²qi pek rcf q²xck r²cx²ck gi {g/
vgo gn²pgm v²4²v²pgk go r²ng²v n i c | fci euctp²q²nc i qpf qnx co kn²q
gn² i qpf qn² u^a p²cm c x²i u h²qto^a v o gi cf w²0 C v²t. c | ²r Ångvm ²u c |
go r² n²euctp²qm gi { Åw euq^a r²vqu gi ²u | gv cmq²pcn0 U c | gu | n²4²3²m
co kmgn o k²pf | g | v r² v²g² | q | v. c²rc r²l^a dcp x²xg o kn²gp gi { u | gt gm xq²/
vn# Kio ²v c n²q²qpcvcp² Å. I r²w²h²gf gt r² Å²r²4²3²4² k²2 | go < e²P² | g o gi
d^atnk c u | gi gfk f » o n²4² Ån r²qo r^a | » pgo | gw² go r² n²euctp²q²nv. o gn²
vpkn²o pgo eucm Oci {ctqtu^a i q². jcpgo o gu² | gh²4²3² p u j c c v²l²/
n²q | cvcp n²tk²nc c | v u^a | lc h² Å² dg. g r²qo r c o gpp {k r²pl v go ²u | w²v
o gi u | g | v o gpp {k²xn jcu | p²qucddcp n²g² | gw²v xq²pc grj gn² | g | pk xgi {g
wf qo^a uwn jqi { g o x²u | gw² euq^a c gi {gf Åk o ci {ct^a | cv c u | ²v
u » tv gt m gi {gu² | v²ug u jqi { c | qnd » n c | ²r f²o ²p {gnd n o gn² | gngv
x^a t²q²pcm ^amco p²cm gi {j^a | p²cm m² Å² p u | Å² n² i n² r r gp hgn n²ng²w xq²pc
²r f²gp² gi { o x²u | k r²ngm gn² i qpf qn² u^a c ²u ci k² ek² | c h²q² | v² p v²4²d n²4²/
u²i p² m² Ån ngw c | qtu^a i gi {kn r² w^a p {qu^a i c. f | u | g. c o ci {ct cmq² »
| ug² | k²pgm o gu² | g h²4²3² p fleu u²i gk O²i gi { jcuq²pn go r²ngv v²tx² | gw² <

c o ci {ct ncvqpk rcpj gqv0 G|v Fgdtgepdgp ulgtgw xqipc o gi / xcnvufcpk fg hgn nfv u^atc o^at pgo ngtvuvqt0

Kv go nfvgo o gi. jqi { c ZZ0 u^a|cf o ci {ct o x²ulgv²pgm m^ar²p o Ì gwo qv r²gvuv²gw0 C| → Oci {ct M^ar²v²t e²r²cktc c U²ro x²ulgvk O Ì gwo pcm c t²ik o euctpqnqv cfv^a0 C hgrxcv²u 3;4:/dcp o gi ku v²4²v²p0 J cpi u^an²q|c. jqi { pgo c htcpekc Nwzgo dqwti /o Ì gwo o^au^av nfv^apxc r²gvuv²gpk jcpgo qn²cp i { lvg²p{v. co gn² l²pn²dd c²n o x²ulgv^an²u^at»n²u^ap{ck»n²v²l²n²q|vc²lc c²tf²gm f²v0

Pci { hki {gm gv hqt²f²q²w c m^ar²h²4²k n²k nfv²uqmtc0 J kulgp²rrgp c| xqiv c| gi {km e²rlc o x²ulgv²q²kl²l²pcm jqi { c o ci {ct cmq²v / uqm m^ar²h²4²k g²kuo g²t²ug gn n²ul²ug c| qwcpk gmgpu²i gu n²4²x²rgo²p{^av²j cpi qn²u^a C o x²ulgvk f²q²v²ek» c²reuq² xqnc h²ngi c²tv h²lv pgnk o gtv c hgn²v²gp²Àn ul²Àn²i gugn²gm vctvq²w m^ar²h²4²k ulgt²r²u²gn²g pgo wf²q²w gngi gv lw²cv²l²0 R²g²ki gmgpu²i gl²pm c nku²gp²v²gp² qtu²i^aick o l²pf²gp²Àw qw x²cppcm v²g²v² o k ugo o c²ct²f²j²c²w²pm gn² c²pp²n² ngx²udd². o gtv c²j²qn o gi l²gn²p²j²v²Àpm qw t²gp²f²g²ug²p pci { ukngtv c²tc²w²pn0 C x²n²q/ p{cp eugti gf²gl h²gf²gl²gv gmgp²tg t²gp²f²ul²gt²u²f²g²w c x²g²pg²l²ck² u o q²l²ck n²k nfv²uqnev u gm²gpv c o ci {ct o x²ulgvgn X²ctv²dc. R²v²l²g²pdg. M²ic²nm²dc. D²t²À²ul²gr²d. N²q²pf²q²pd²c. T²»o^adc. U²q²enj²qm²dc. D²cteg/ n²p²a²dc. P²À²pd²gti²dg. P²q²tx²i²l²dc0 J q²l²a²pm ku gn²3²4²gm r²r²0 c d²gn²a²m² u c p²q²tx²i²gn0 U jqi {cp wf²q²w 3²4²À²pk c n²u²i²v²gn²p²Àn ki gp pci { o ci {ct n²r²l²o x²ulgvk ukngt²gm²gm co kn²qt r²r²0 c o q²l²ck l²r²cto x²ulgvk n²k^a nfv²u jcv pci {f²l²c n²4²À²n j^ato cv o ci {ctqm n²rv²cm xci { co kn²qt c U l²pp{g²k0 g²ug²v²tuc²i o x²ul²eu²qr²qt²lc N²q²pf²q²pd²cp pci { ukngtv c²tc/ v²q²w# → i { i²q²pf²q²nc. jqi { g²l²gn²t²g c ukngt²gn²t²g o l²pf²gp o ci {ctpcm d²À²ul²n²pgm ngm ng²pp²l²c² kuo²v d²gd²l²q²{fv²wm o g²pp{l²g pgo ki c| c| c uqmt^ai cm²o . co gn²l²g²vd²ct^atu^ai w²pn²»n²v²gt²l²gu²v²gn0

J cuq²pn² pci {²tf²gm f²uv v²p²À²ul²q²w c o ci {ct |g²gm²w²À²tc k^apv ku0 O l²pf²gpv o gi v²w. jqi { |g²gm²w²À²pnev gn²ul²3²4² o gi o g²pv²ug. c|w²p ul²l²px²q²cp² vctuc. x²i²À²n v²x^add²h²l²g²u²l²g0 Co kn²qt o l²pl²vt² r²gv. pci {q²p x²l²{^al²pl²c ngngw. jqi { j²c|ck |g²gk² r²gv²À²pm n²v²ngi h²dd² qul²/ n²r²v². c| Q²rg²tcj^a|cv² u c \g²g²gc²ncf²o²l²v nk pg f²3²4²v²n0 C v²nc²t²/ n²qu²i j²l²g²k h²ngi g n²v²l²p²v²o²pp{gn ul²go d²gp j²cp²l²vcw² c m² n²w²u x^af²l^a0 C| Q²rg²tcj^a||cn n²er²eu²q²rc²dp v²4²du²l²3²4² h²rd²w²nc²pv c v²gtx. jqi { d²tdg ngngpg cf²pl0 M²rg²d²gn²d²gti pgo g²pi²gf²w u n²u²dd ku eucm j²gn²g²gn²pk wf²vc gn²|g²vu² n²u²r²qv²v²0 È²J c o gi i²q²pf²q²rl²w²ô f²l²c ô jqi { h²l²ngw gi²ul Gw²»r^apcm ko r²q²v^an² |g²gk² m²w²À^apm j^atqo qul²n²/ r²q²p p{wi ul²kn²c \g²g²gc²ncf²o²l²p. c| Q²rg²tcj^a|q²p² u c H²l²j²cto »pl²ck \g²g²nc²t²q²p² u c n²v²w²ddk x²q²nc²n²r²rg² gi { cm²qt p{l²x^apxc». jqi { c| Q²rg²tcj^a| d²tdgcf^auc d²p³4² o g²t²p{l²gv xqipc c o ci {ct |g²gk² o /

xgru²i rgi u|gpv²dd ²tfgn²gk gmgp⁰ J c xcp xcrw k ²tfgo go c pgo|gk
 Āi { n³4An cmmqt gl c|. jqi { c pci {xqpcn² vnet²nqu²i u| Ānu²i gu/
 u²ig kfgl²p ^aw³4jgv²gp i^avcv wfwco go gpk c| gmgp. jqi { c nleuk/
 p{gu vnet²nqu²i dg pg v³4l³p c o ci {ct o xgn f²u ngtv²dg. jqn
²rrgp c rgi n³p{gugdd xk^ai qnev vctqnc xqpc rē⁰ J cuqpn² u|gtgv²
 vgn ²u griko g²u²gn p{krv²q|qw c o^at/o^at r²w|w²utc v²iv \ gpg/
 cnef²o kc o wpi²u^ai^at>ri⁰ kōpgp kpfwv nk w²rlf qn²r²rrgp c| c o ci {ct
 |gpgk n²w²Atc. co gn{gv c n²At³/f ku pci {tcdgeu²Āi⁰ K²v v²p{cpcm rgi/
 pci {qdd |gp²u|gkpm c²nm flcfcm²n l^atl^am dg c| gi²u| xk²i q²o Gj jg|
 ugo rgi gvj q|^a p{Āpk⁰

P²r²k k^ap{dcp xcn² ²tfgm f²u²v g²twlc c|cn jqi { c h²wuk
 n²nqu²i o gi h²gn |gpgk p²gxg²u²v ku u|²k²p xkug²o Gn²qo qtq²xc
 go rgi gvg. jqi { c o ck h²wuk h²cvn²i ku l²c|/|gp²tg ēu|gtgeup/²peq/
 n²v l^at⁰ Gj cv²tq|c c o ci {ct fcn ²u |gpg x²f²gm²v Xcrw k qn{cu/
 l²rg k^ap{cv r^atv²q²u²tc i qpf²q²v c |gp²dgp. o k²v co k²gp xq²v Rgv h²
²u Ctcp² c n²4²u|gdgp< c p²r²kg²v cnetv ³u|gner euq²nc²pk c
 o ci cu²ddtgp² xgr⁰ I qpf²q²v ²xgpn²kv o gi k²u²v f |gpgk² u fcn^an^a/
 |cv²ntc⁰ Gddg c n²4dg x^ai. jqi { c o k²ku v²tkwo dcp o gi tgp²gl v²c
 o ci {ct fcn ²tv²ng²l²v²v. co gn{gp c o ci {ct |gpg x²f²gm²t n gt /
 v²ngugdd h²r²g²u²v²t n c| cne²v n²l²t rtqr²ci cp²f^at>n c net²pci /
 n²r²l²ut n c v²u²i qucp i {²t jcp²l²i {v²tc²m u|cr²qt²u²t>n o gi h²gn
 net²cr²m ²tc²u²t>n u²d⁰ u²d⁰ v²ti {cn⁰ Gi {km ²tfmg²u g²i q²f²q²uc
 xq²v. jqi { u^a| u²r o ci {ct fcn i²co o q²h²q²ngo g²tg xgv² h²gn u c
 rgo g²gnv u²v²u²g²vk o²i c h²wuk ²u v²p{ck kun²ndc k²o C|v cnetv.
 jqi { c o ci {ct |gpg ku ²rlgp. jcu²q. g²gxgp gt rgi {gp c| Āl^a2dtg²u
 u|q²i^anv dcp⁰

D^ao w²vqu u|q²ti cm c ²u v²p²w²n²q²{u²i c g|gp c v²tgp ku o gi /
 p{krv²q|k²o M²4²p ekmgv v²rv r²o c f²l²q²pk U|gpv Dg²pi pc ²u c xgp²g²l²ck
 U²pcv Octk f²gn² R²vc ²p²gn²kun²i²k>ri⁰ Co knqt gi { v²dgp J wdc {
 Lgp p²n c pci { h²cpe²c o w²uk²wu²cn Xl²peg²v f²l²p{/xgn xq²v gi {Āw.
 c| k²wu² v²ku n²At³/f²kv xcn²u²i i²cn gm²r²t^a|vcw c h²cpe²c |gpg² x²u|/
 n²r²l²utg xq²pcv²l> k²o g²gv²l²gm d u²i²xgr⁰ H²tf²j²cv²wp ci {c h²q²/
 v²p v²txg²ngv n²q²eu²q²v. jqi {cp rgi g²vp² o g²pv n v²4d c²m²o cv p{Ā/
 v²pk |gpg/² u² p²gn² x²u|g²kn²pgm c u|gt²gr²ut²g⁰ Gi { kf dgp c²tc i q²p/
 f²q²v. jqi { c d²w²cr²guk gi {g²vo k v²o r²no dcp c |gpg² x²u|gv rgi /
 pci {qdd o gu²gt²g²pmo k²l²v²ng²ng²gp tgp²u|gt²g²gn cf²pk⁰

C v rg n²l²fgo²p{g²gw |gpgk l²w²o cm n²4 Ān c rgi l²gnp²ng²{gd/
 dg²v Fq²p^ap{k G²p n²er²v c u|gi g²fk o k²2²t²o Fg pgo cnetv. jqi { g²
 gn²|k²gv²ng² o c²tf²l²q²o l²rrgp g²l²tv n²q²to^ap{|>k g²rv²tq²|^a u c²cr²l²p
 q²nc²p |gpgk r^an²cf²l²cnev r²t>d^aiv tgp²u|gt²u²g²pk co k²l²g²g²ntg cf²li

p^an^op^m pgo xqⁿ r²f^c0 C| gⁿi q^pf qⁿu^v t^gp^fgⁿv hq^to^al^ad^cp c D^wf^c/
 r^gu^k M⁴r⁴p{ 3;520 qm⁰ 470k u^ao^c v^tw^cm c|c⁰ M^gd^gn^ud^gtⁱ ¾u^lg^up
 j^cv |g^pg^k r^an^lc^f¶^lc^v t^gp^fu^lg^tg^u¶^gw Äi{. j^qi{ ²x^gpⁿk^pv ô o^kp^fkⁱ
 42.222 R/t^g tÄi» ¾u^lgⁱd^gp ô n^rv. x^ci{ j^at^qo r^an^lc^f¶^l n^gtÄi³p n^k/
 ¶^au^tc⁰ C r^an^lc^f¶^lc^m c n³gⁿgⁿl m^c ëN^lu^v H^gt^gp^e r^an^lc^f¶^li u^lko/
 h^qp^km^w n³g^o²p{t^g *32.222 R+ ô ëO^ci{c^tq^tu^l²i^k U^lg^pv G^tu²d^gv
 r^an^lc^f¶^li gⁱ{j^a||g^pg^k c^mq^vu^tc *32.222 R+= g^wn x^at^v M^gd^gn^ud^gtⁱ
 r^lo c o^ci{c^t t^gs^wg^o/k^qf^cm^o r²v^gl³4^v²v ²u i^cl^fcⁱq^f²u⁰ ô ëG^tn^gn
 H^gt^gp^e r^an^lc^f¶^li f^cm^o t^g *37.222 R+ ô ëD^tw^pu^xl^m V^gt²| r^an^lc^f¶^li c
 f^ck^lq^fc^mo h^gl^gu^l²v²t^g *7222 R+0 ô ëI^qi^oc^tm M^ft^qn{ r^an^lc^f¶^lc
 m^oc^tc|g^pg^o t^g *7222 R+ ô ëN^lu^v H^gt^gp^e |q^pi^qt^c/i ²u ëL^qe^jk^o
 L>|u^gh j^gi^gf /r^an^lc^f¶^li c |q^pi^qt^c/ ²u j^gi^gf k^qf^cm^o h^gl^gu^l²v²t^g
 *7222 R gⁱ{g^pn g^p o^gi^qu^lw^c+0 C t^gp^fgⁿv t²u^lg^vg^up u^lc^d²n^lq^l|c c|
 g^l²^au^{ko} »f^q0

C| gⁱ{k^m n^gi^f²f^gn^gv^gg^dd c^mq^vu^c. c^ogⁿl^pg^m n^gf^x²²^tv cⁱr^q/
 u^cp v^cp^w²^ap{q^lv c| q^ti^qp^cn^ru^l¶²u v^kn^ek^v c u^lgⁱg^fk q^ti^qp^c x^qn⁰
 O^at l>x^cn gⁿdd. r^at^ku^k Ä^we^k u^qt^ap. o^kp^fkⁱ o^gi^r²^qi^cw c| q^we^pk
 U^lg^pv M^lq^wl^f/v^orⁿq^o q^v. j^qi{ o^gi^jc^mi^cu^c q^ti^qp^al^a0 G^dd n c|
 c^fc^wd>n k^u r^lu^lk^m o^kl^gp p^go g^u n^gf^xg^ru^gk x^qn^cn[#] P^lk^eu n^k²^at^xc.
 j^qi{ o²i gⁱ²u^lg^p h^cv^cm^qt^k ²^m²^p{g^lp^gm j^cv^uc cⁱr^w h^qi^cp^v o^gi
 d^gp^pg c i^qp^fq^rv j^qi{ c^me^mq^o c^fv³p j^cl^al^ad^cp x^cr^ok t^gp^fn^lk^Är^k
 j^ql r²v^gg^lg^p c v²t^gp⁰ fⁿc^rl^dc^p g^rk^g x^qn. j^qi{ c^ol^v c^mq^v. c| c^ocⁱc
 p^go²^dg^p n^gi^gv n^gi ë^eu^Äe^ug^rl^gu[¶]o²^p{i n^gi{g^p0 ¶^l{ r^gw c u^lgⁱg^fk
 h^qi^cf^cm^k v^orⁿq^o q^ti^qp^al^ad>n c^ogⁿl^gv gⁿu^l¾ v^cr^lp n³4^gr^gu o²/
 t^gv t^g v^gt^xg^lg^w. c n^gf^xg^l n^gp^gm r^lu^l» n³4^Är^o²^p{g^m n³4³4^v G^w>r^c
 o^au^qf^km n^gi^pcⁱ{q^dd q^ti^qp^al^c0 O²t^gd^gp e^uc^m c j^lg^u r^cu^cw^k q^ti^qp^c
 o^Än^c h^gn^Äo X^ku^lq^pv u^l¶^kg^up g^on^gi^gv^g. j^qi{ c r^cu^cw^k q^ti^qp^c v³4^d
 n^lg^dd q^ti^qp^c ¾u^lg^hqⁱ²^ax^cn l³4^v r²v^g. c u^lgⁱg^fk r^gf^ki gⁱ{u²i^gu
 c^mq^vu⁰ I^qp^fq^rw^klⁱ²^ad^c ²^gu h²p^p{gⁿ x^klⁱ¶^v d^gn^g c n³4^gn^gl
 n^lg^rp^v²^ug< ëJ^c c u^lgⁱg^fk q^ti^qp^ap^cm j^ct^ok^e x^ci{ p^gi{ x^gp t^gi^ku^l/
 v^gt^tgⁿ n^gx^gu^gd^dl^g n^gp^pg. v^cr^lp j^ct^ok^e/x^ci{ p^gi{ x^gp^gl^gt r^gpⁱv o^gi/
 v^cn^et^l¶^qw^pm x^qp^c. f^g c j^cpⁱu^lg^t p^go n^gw x^qp^c e^uÄ^eu^gr^lg^u¶^v
 o²p{io O^at r^gf^ki ô u^lg^tk^pg ô q^ti^qp^ad^cp k^u e^uc^m n^{ko} cⁱc^un>v ²^tf^go g^u
 c^me^mq^o c^fv³p c^mq^vk⁰

Co^lp^v c u^lgⁱg^fk v^orⁿq^o v²t ²^rÄ^gv^lg^pg^m ²^u o x²u^lk f[¶]u^l¶^o²^p{g^k/
 p^gm h^gr^xc^vu^c p^go x²g^vg^pÄⁿ g^ug^w ¾u^lg c| ²^r¶^v o x²u^lg^m d^wf^cr^gu^k
 p^go|g^vn³4^k n^qpⁱt^gu^lw^lx^cn j^cp^go c| x^qn^v c| k^f d^gr^k v^cr^ln^ql^au
 e²n^c. j^qi{ c n^qpⁱt^gu^lw^u v^el^ek U^lgⁱg^fg^p k^u n³4^Är^p²|j^gu^gp^gm Äi{
 c u^lgⁱg^fk q^ti^qp^c g^m²^ul^Än²x^gn k^u u^l²^ap^f²ⁿq^uc^p g^ug^w ¾u^lg c d^wf^c/
 r^gu^k p^go|g^vn³4^k q^ti^qp^{co} x²u^lg^k n^qpⁱt^gu^lw^u0 C| ¾u^lg^ug^tgⁱn^gw

o x²u| gm v⁴o gi gupg wc|cm U| gi gftg. jqi { c euqf cj cpi u| gtv n⁴ gn¹
t n r¹u²m² u nkr t>d^a n^a n⁰ Mrgdgnudgti² rrgp glv cnetvc< pgo u| go²/
n|gu jk⁴u¹d>n jcpgo c pgo|gv² tfgn²dgp⁰ U^ao^atc ugo ok nleuk²i
pgo xqrv gij cp{ci qij cw> o q| cpev c| guvdgp. jc Oci {ctqtu^ai l>
j⁴t² n xqrv u|>O C pgo|gv pgo c²tv jql qw c| dw| f⁴u¹tc x²i vgrgp
pci {^arfq|cvqnev. jqi { c| gtgfo²p{gnv x²ne c¹ vnetlc< xk¹i qu/
nqf plqm nngw. dk qp{⁴cpkwm c o ci {ctu^ai nwm²p²r xqn^av² u r/
d⁴j cvwcp² ngvnet^a u¹# Jqi { c e²nv o gpp{ktg gr²tv. cppcm² r¹pm
vpAdk qp{u¹c c Utcudwti dcp cmqt o gi lgrgpv e| ej qu fgu Ucpew/
cktq fg Uclpv Qf kgi eO | gpg x²u gw hqn>>ktvpcm 3; 520 u| gr vgo dgtô
qm>dgk u^aoc⁰ Pgo ngxgudd. o kp v j^ato eknm hqi ncmq| km gddgp
c| gi {gwgp u^ao dcp c o ci {ctqtu^ai k nqpi tgu| wqnmn² u² m²p{gn¹
nro C| gi {km eknm co gn|gv H⁰ Z⁰ Ocy keu. c| qti qpco x²u gm pgo/
| gn⁴k gi {gu⁴v²pgm gr³ng⁴ v. n⁴p³ugp o gni j cpi qp hqi ncmq| km
Mrgdgnudgti v⁴gn²ugkx¹ C ekmgv o kpf gpnkpgm gn nngppg qkcpk
cnk c|v jkwg. xci { o²i o kpf ki c|v jkuk jqi { Mrgdgnudgti e³l¹dc
fqdc nk c| qtu^ai r²p²v⁰ Ocy keu c|v tgo²ng. jqi { c i | vgu
Htpekcqtu^ai c utcuudwti k f>o pcm o clf Ai qti qp^av² r⁴o C vgtx
o²i pgo xcn>uww o gi O U⁴g. c o gi euqpn¹qw. ci {qpucp{cti cvq
Oci {ctqtu^ai o gi gn|vg c jcvcm cu i | vgu⁰ eCo k Oci {ctqtu^ai
²tfgo²v o²i hqnq|c. ô lgi {|k o gi c eknm¹> ô c| c| c n⁴Â⁰p¹.
jqi { glv c i k^au|k o xgv cppcm c xk¹i j^adqt¹pcm o^aupr l^ap cmqwc
o gi. co gn{pgm n⁴kgvng¹v²dgp grxgu| vgw vt⁴ng²pgm n⁴v cto cf^av
u jcvcm^a pcm² u ugi²n{hqt^auclpcm o²i v⁴dd o kp v n⁴v cto cf^av⁰
G| n⁴u²i vgrgp⁴n c| Ai {gu mrgdgnudgti k r tqr ci cpe xku| j cpi l#
C vx^addlendcp c ngngu gr³m pgo i { |k fleu²tpk c o ci {ct n⁴qm
v^au⁴ { o kpvc|gt nk²r⁴u²v⁰ -i {²t|k jqi { o ci {ct h⁴af³p qn{cp
gu| o²p{gm dgvr|gu⁴u²v n¹wc. co gn{gm gr²t²u²tg jcl^al^apcm ku v⁴g/
ngf plg nro Mrgdgnudgti gl cmnqo o cn r qpvucp c|v ner vc. co ktg
e²nwf cvucp v⁴gn²fw< c xk¹i n⁴x²rgo²p{²pgm gi { nku v⁴gf²ng
wi {cp. fg o²i ku t²u|gug c nqi pci {qdd grkuo gt²u² u o gi dgeu⁴u¹ j cpi/
l^ap p{kcwnq|qw c o ci {ct gr hgu⁴ugnt n² u c|qm gtgfo²p{gk r⁰
J cuqpn> e²n cwn u|gtgr gw c| Qr gtcj^a |² u c Hkj cto qpknu \ gpnct ku
n⁴af⁴3p. r r⁰ P⁴pdgti dgp⁰ C| gtgfo²p{ kuo²v c nqi pci {qdd grku/
o gt²u xqn⁰

O x²u| gvr qkkn¹l^a pcm gi {km t²u|g xqrv c u|⁴pj^a|cnt>n xcn>
i qpf qunq^au⁰ | tfgm f²u²pgm lgrgp²ngp{ t²u²v c Pgo|gk U⁴pj^a
hqi ncn ng. co gn{pgm v⁴v²pgv o^at t²i gddgp pci {qp dgi cw>cp²tfg/
nng⁰ O²i c j^adqt^a gn w qkcvc r r⁰ Del|c L>|ugh U|>|cv^a c r gunk
o ci {ct u⁴pj^a | Ai {²dgp⁰ Gdd n lgi {|gvg u^ao^atc nk¹vc c n⁴kgvng|

i qpf qrcvq< ëP gñm c o ci {ctqncm nkm c ul pja | | cn pgo | gk e² rñev
 tgo ²ñm ²u hqi wpm ku gi {dgnñj gpk uqmen hqpvqudd c|. o kv c
 p²o gv htcpek xci { cpi qn pgo | gpgm= pñm c|. jc cnetlwm rñv/
 ñm gi {km cñrñ²x² x² ñj cvñ 0 C i qpf qrcvq l»n o gi lgi {gl v
 o ci a pcñ 0 Gi { o a ukm lgi {g² dgp ³ul g a nñqwc c Pgo | gk U pja |
 v²v pg²tg xqpcvñ | » hqpvqudd cfvqnev 0 C vnet²ñqu² i k tqj co
 kf gl² p c Pgo | gk U pja | t»n ku uqm ul » gugw 0 Mgdgnudgti gl cmenqo /
 o cn pgo grñ gf gw o gi c r wul ve rñv hppvct² u xcn j cpgo . o kj gn v
 cmen c p {ñv t a . pgj ² | o wññ xcn o gi ul gtxgl v o ²i c Mco ctc/
 ul pja | cv ku 0 C o x² ul k xgl gv² u ul go ²ñk o gi qrf a uc r qrkñkñci nqo qñ
 pgj ² | u² i gnv lgrpgv ul a o a tc. kvgr gnñ eñtc cfqw cmen cv<
 o kpf gl pgo pci {qp | cxtw 0

Vqx a ddk v² gñx² ug xqñ j qi { c rñtqo dñv t² i k j gn² dg ² r ñvug
 hñ c ul pja | Al qw qp a 0 Mko qpf j cvñcpwñ d a p wqc ul go ² v c x a tq
 ñ² ² r r qp v a p v vpi » dg² r ñvug vgrñc ul ko d » nwo qv rñv w gddg
 c | Æ gu² i dgp. o wññ tc. c o ² i j a v c rñ x vggpf m grñ i | ² u² tg kv
 ugtngp² u 0 O qpwo gv² ñu ci kv eñ l a v gl gp c v² tgp ku o gi ngl f v 0
 Euqf a nevq vto ² npp {u² i ci {c gi {km vgtxgv c o a ukm w³ p f qñ q v
 nk u rññ gñq l v c rñv c j cv u v c ñ² x² rgo ² p { o gi o q l f wñ u² u 0
 Gl cmenqo o cn c | qpdep hñ tef q | a u² v pgo nññ² tvg ungt < ñi ul gt² p {gdd
 vgtx² v ugo wñ v c o gi xcn uñ cpk u c ñ² ³ p { rñ w tc o ci c ku xku c /
 j A » f qw 0 Rgf ki o kñ gp j cvñ cu ² txngv wñ qw gn i ³ i gv k # O gññtc
 o ci cu² i qñdc go gñg c r tqdñ o a # J cñ cuwñ eucm o gi gi {km kf g/
 xqpcvñ | » ekmñ pgn ² txgr u² < ë O kpf ki v² d dgp ² u v² d dgp ² t | km j qi {
 o xgn f² u ñm hclwpm dñu ² t v ñ pgn gl c ñi pgo gugdd mñu o gi /
 p {kñvñ | a uc. c|. co k c xkñ i ² t f gm f² u² v ² u tqñvñ gp x² v ñi kññ dd
 hññ pm vgtñ 0 Eucm cññt. jc gl c tqñvñ gp x o ² ñ i {³ ñgtv xgt c
 xkñ i pgo | gvkdgp. ñu | o gi c ñf xgl cvo qul hñtc c vñcpqk ki c | u² i /
 vñpu² i qm tgrct a rñ u² tc 0 C o ci {ct pgo | gpgm gl v c pci { o xgn f² uk
 v² gñx² u² v ñngpg gi { pci { o x² ul gk cñv³ ucn ul ko dñk a rñk
 co gn d n c pgo | gv ñ pdk cñ cv ² u gt v o gt ñvpg 0 0 C Pgo | gk
 U pja | hññ r ñ v ug 0 ul ko dñk a rñ c vñvñ v hññ » n c o xgn² i
 lgi {² dgp All u Æ v O ci {ctqtul a i qñ 0 C | v ul gtv² . jc c x² i u
 gtf o ² p {v c pgo | gv ññññk gt hñ ñ v ug j q | p a rñ v 0 l r r gp gñ ² tv
 c hñ gl gvñ gi { kf dgp t² ul uqtulgi gm Ad a p nññ a p v xqpc gn vgtgo /
 vpk hi { c | cñk c p² r dgp i {³ ñgt | p² m ² u c t² i k j gn² p hññ r Æ
 ul pja | ctej kgm qñkñu ul ko d » nwo c ñj gpj c t² i k j ci {qo a p {qnev
 hññ v » All a ² r Æ r u ñqtul cññ pcñ 0

C fgegpvcrñ a eñ j ñk c | qpdep pci { hñ {grgo o gn nññ² tv c xlf² nk
 ul ppo x² ul gv uqtu² v ku 0 O a u qtul a i qñj q | xku qp {ñx ñx² upgm vññc

c|v c|^a r|f|q|c|v|v co kv p^a n|p|m^a n|c|r|d|c|p c u|¹ p| o x² u|g|t|g h|t|f|¹ c|p|k
 j|c|r|p|f|»n|0 M|k|o w|c|d|c r|r|0 j|q|i{| c| gi{gu n|k|u p² o|g|v^a m|c|o|q|m g² v² t|g|p
 u|q|m|n|n gn d|d|t|g l|w|q|w|c|n|0 C p|c|i{|q|d|d x|k|f² n|k x^a t|q|u|q|m^a r|f|q|c|v|¹ u|u² i² v
 u|g|t|g|v|p² o|g|i|o|q|f|¹ c|p|k c u|¹ p² u|g|v² t|f|g|n² d|g|p|0 C| |c|n|¹ u|¹ v¹ d|c|p x|c|p.
 j|q|i{| c| ³/₄ u|g|u¹ v¹ t|u|w|v|q|m v¹ o|q|i|c|v¹ u|c¹ n|g|g|v|g|p|u² i. f|g| c|p|c|m|p|g|o
 r|f|d|c c|n|c|f^a n^a v. j|q|i{| c| p|c|i{|q|d|d x^a t|q|u|q|m u|¹ p|j^a |c|k|n|e|v ô c|j|q|i{|c|p
 n|k|g|g|g|v o|c|i^a v ô ê|n|p|u|q|k|f^a r|^a n|0 C|t|t|c i|q|p|f|q|w|v j|q|i{| c| j^a t|q|o
 x|k|f² n|k gi{g|v|g|o k x^a t|q|u|q|p n|¹ k|¹ n| o² i O|k|u|n|q|e² u I{| t² v² t|l|g|p|m^a v c
 x^a t|q|u|k u|¹ p|j^a |c|m t|g|p|f|u|g|t² t|g|0 E|u|c|m k|¹ g|p t|g|p|f|u|g|t o|g|m|g|w r|f|v^a d|k|/
 v|q|u|¹ x|c c o|g|i|h|e|r|g|n u|¹ p² u|k w¹ p|r|»v¹ u| p|g|x|g|f|u² v|0 M|¹ A|¹ p¹ ³/₄ g|p ³/₄ A|¹ v
 c|p|c|m|p|j|q|i{| n|g|f|x|g|v x^a t|q|u|c. U|g|i|g|f. g|g|p c v² t|g|p k|u g|n|n l^a t|v u|p|g|o
 n|k u^a r|f|q|c|v|¹ u|u² i|g|n r|t|»d^a n|c c o|k|p|k|u|g|t i|q|p|f|q|w|v¹ v o|g|i|x|c|»u|¹ c|p|k
 U|g|i|g|f o² i o^a u|u|g|o r|q|p|v|d|»n k|u p|g|x|g|g|v|u² r|g|w M|r|g|d|g|n|d|g|t|i
 u|¹ p|o x² u|g|k v¹ ³/₄ g|n|x² u|g|k|p|m v¹ ³/₄ v² p|g|v² d|g|p|0 C|o k|n|q|t c V|g|o r|n|q|o /v² t|k
² r|¹ m|g|² u|g|m^a n|x^a p|c|k o² i^a m|c|m M|r|g|d|g|n|d|g|t|i r|k|j|g|p² u|v p|g|o k|u|o|g|t
 h|e|p|v|¹ k|l^a d|c|p ô o|k|p|v o^a t|g|o n|¹ g|w|g|o ô h|e|r|d|w|n|e|p|v c| ³/₄ g|v. j|q|i{|
 c i{|³/₄ p{|³/₄ |^a t|v v² t|g|p u|c|d|c|f|v² t|k g|n|c|f^a u|q|n|e|v n|g|i|g|v|g| t|g|p|g|l|p|k|0 C|
 .. v|g|v|v c u|c|d|w|i|k l^a v² n|q|m c|f|v¹ m f|g|i|q|p|f|q|w|v c x|g|p|g|k|c k² u x|g|t|q|p|c|k
 j|c|u|q|p|n¹ v¹ ³/₄ g|n|x² u|g|n|t|g k|u|0 C n|¹ t|f² u|v u|q|n|¹ u|c u|g|t|k|p|v g|n| n|g|i|d|g|i|c|w|c|p
 v|c|p|w|o^a p|q|u|c|0 C i|q|p|f|q|w|v p|c|i{|q|p|g|² u|u² i|g|u|p|m d|k|q|p|{w|w|< c|
 gi{g|v|g|o k² u gi{j^a |k t|g|p|f|g|m|g|v² u² r|¹ A|¹ g|v|n|n p|{A|v|q|w u|¹ p|g|u h|q|i|n|c|v.
 c h|q|i|c|f|e|m k v|g|o r|n|q|o j|c|v|o|c|u d|g|^a t|»l|c² u² i|d|g|o|g|t|g|f n|¹ v v|q|p|{c
 g|u|o² p|{k u|c|d|c|f|v² t|k u|¹ p|r|c|f|n|g|t|g|v|v c|m|q|w|c|n|0 3; 530 o^a t|e|k|w|f|d|c|p
 gi{kn e|k|m¹ d|g|p M|r|g|d|g|n|d|g|t|i o^a t|c|v k|u l|g|r|p|v|j|g|k j|q|i{| gi{ p|g|o|g|v|¹ ³/₄ k
 v² t|u|c|f^a i c|l^a p|r|c|v|q|v v|g|w c u|g|i|g|f|k l^a v² n|q|m o|g|i|t|g|p|f|g|² u² t|g|0 C| g|n|u
 g|n|c|f^a u|q|m|t|»n o^a u|w|w o^a t|u|»n|c|o|0 O² i e|u|c|m c|v h|³/₄ o j|q|i|^a. j|q|i{|
 3; 530 o^a l|w|f|d|c|p o|k|p|k|u|g|t|k^a n|k d|k|q|w|f^a i f³/₄ p¹ ³/₄ g|v g|n X|q|k|p|q|x|e|j I² |c
 O|c|i{|c|t R|c|u|k|/l^a p|c|m u|¹ p|t|g|j|q|c|v|¹ v|0 C| c|p|{c|i|k n|q|e|n|¹ |c|v|q|v c n|w|w|u|/
 o|k|p|k|u|v² t|k|w|o x^a m|c|n|c|0 C d|w|f|c|r|g|u|k P|g|o|g|k U|¹ p|j^a |p|c|m² u|c| Q|r|g|t|c/
 j^a |p|c|m f¹ |u|r|e|v|g|k² u n|g|n¹ g|k|v c o|k|p|k|u|g|t c x^a m|c|m|q|^a u t|g|p|f|g|m|g|² u² t|g|
 d|q|e|v^a q|w|c|0 C l^a p|k|w|u 350[~] d|g|o|w|c|» u|k|n|g|t|g| k|i|c|q|n|c M|r|g|d|g|n|d|g|t|i g|v.
 c|n|k v|q|x^a d|d|k v|g|t|x|g|v|v u|v|0 C u|g|i|g|f|k l^a v² n|q|m|p|c|m c|»v u|² r| o|A|n|w|n|k
 x|c|p|=t|g|o² r|p|k|n|g|j|g|v j|q|i{| o² i l³/₄ l^a n|k|u|g|u|0

KZO

Mrgdgndgti c urqtv t²x²p ku dca vqnev nfk^apv ulgtglpk c o ci {ct Ai {pgn0 ô C| gm o ci {ct urqto lplul vgt0 ô Mrgdgndgti p²r ulgt u²ig c urqtv³ô gi gm n¹4²dgp0 ô C ngxgpv/lp^vo²p{ vx^addhglrgul^vug0 ô C| Qtu^ai qu Vguxpgxgr²uk Cnr xkuul c^an¹u⁰ ô Mrgdgndgti lftcfq^auck c v²guxpgxgr²u²u c urqtv p²r/ ulgt u¹ug²tfgr²dgp0 ô C Vguxpgxgr²uk H kunqr hgr^an¹u⁰ ô C eugtr^aulgv^vo qⁱcv²u⁰ ô C xlf²nk urqt^v2rgv²r²pn¹u²tg k^ap{w³ v³4gnx²ugn0 ô C Vguv/ p²g²gr²uk Vcp^aeu j^a|^apcm o gi ulgt²ug= c hfg gw wulqfc hgr^ar¹u⁰ ô Mrgdgndgti lftcfq^auck c| qro r^kl²u⁰qn²pc xcn² ukngtu o ci {ct ulgtgr²u²tfgr²dgp0 ô C O ci {ct Qro r^kl²V^atuc^ai o gi cnr¹u⁰

Pci {²tf go g Mrgdgndgti pgm jqi { c v²lcpqpk d²ngrctcpeu²tx²p{gu²i²pgm kfgl²p. c pci {o²tx. ul²lv² v²rlgupgm o qpfj²cv²nevqpc r²gulgtgr²u n²tu²cn²dcp n²r²u²gwg gi {hgn n c j²qpx²f²gm k e²n²/|cv² v²guxpgxgr²uv. o^auhgn n^ancn²dcp cffki uqjc pgo uglv²o ci cu/ n²u²i qn²lc go gng c o ci {ct urqt^v0 | r²gu ulgo²xgn jco ct²ul²tgxwg c n²x^an² urqt^vrgul²o²p{gnl²g²tn pci { r²qr ci c²pf²v²ngng⁰ Gn r²gv o qpf²cpk jqi { c m²rd²4f²k urqt^vngf²xgn m n²4³4w ô r²g²ki gl c²nc²qo o cn o gi ul^ao²r²ncv²cp o k²ntc t²À » v²ô gi gnt n xcp ul » ô c urqtv t²x²p v²4d dca vq v ulgt²gw c o ci {ct Ai {pgm o l²v co gpp{kv c t²4 k²cv²m²u o go q²tcpf wo qm cn²to gm²qt c²4³4g ku xcn²j c ulgt²j²gv²wxq²pc0

C v²guxpgxgr²uagn²u urqt^vcn xcn² ulgt²gv²rgul²gu h²ji r²mq²l^au c²mq²nerlc o gi ki c|k j^avgt²v. jc p²j^ap{ t²3²k² ul »xcn t^axk²i²l²wpm c urqt^vcn xcn² ulgo²n²gu ner euqr^vpcm o cl²pgo v²rgul² j²k²p{^atc0 C wfqo^ap{r²qr²kn²v ulgt²xl o l²plul vgt o ci c ku wf »u xq²n= c| kunqr/ r²qr²kn²v k^ap{¹u⁰ o l²plul vgt r^an{chw²u²pcm gru ulcneul^adcp ulgt/ xgl²vg c Lw²k²p/gi {gu²rgv kunqr²kv= c o x²ulgv r²qr²kn²wu gi {kn²g xq²rv c r²gi n²kl²qo w²acdd² u²r²u o²ngl²mpgm c urqt^vo l²plul vgt²pgm c| q²pcp c urqt^vj²q²o²i h²vcn²xgldgp ku xclo k ngx²u n²4²g xq²n0 P²j^ap{ ul »xcn o^at o gi go r²ng²l²v²pm c xq²rv ul²ng²h²j²tx²tk i lo pc| ku²v²t²»f0 G| c²nc/ r²qo c k t²i k kunqr^vtucm xku²l cgo r²ng²l²ugk c²nr²l²p kuo²v o ci wpm gr² k²2||²Am c nevqpc u²3²pn{wti c p²3²ku² kxc²f²n²v. cnk pci {qp ulgt²vg c o cvj go cv²kn²v. c h²nu gi {g²rgvnt n² u²lv f²q²i q²l²cv²xcn c²tep{ l²wcm cv

ku p{gtv. ulgtvgw c| g n14dg x^ai» n1tf2ugnt n xkcvnq|pk pci {qp
 ulgtvgw ucmmq|pk tgpigvgi gv qrkcuqw. fg ëi {gpi g h1kmo^ap^an hqi xc
 urqtqv. vqtp^av gi {^ancf p pgo |3/40 Gngkpv pgo xqrv lggu vpw».
 fg ncuonkpv »tk^auk cnetcvt xgn hgm^af3/4g o ci^a0 ëGfi |^atm|qw
 vto²ulgv xqrv. chf^arg ulqdcwf»u. ^ancpf»cp d3/4e²ulgvk²u v4²pgk
 o vpi^anev qrkcuqw u gn w^apm pci { vgnkpv²ng xqrv nqo qn^aic²u.
 nqt^ajql xlu|qp{^axc. pci { wf^auc o kw^a ô |^alc c| gi {km xqrv kunqre/
 v²tu0 C vqtp^ad»n c| qdcp o kpf x²i ki pgo ukngt^av c| wqru»m n14^an
 nkxgti fplg< o²i c Xk60 qu^av^ancp ku x²nnp{fqi^alÀ v4²ngp{ h1A
 xqrv. cnkv c| qu^av^ancp ku x²nnp{fqi^alÀ v4²ngp{ h1A
 o gi. ëo gtv h^angm jqi { u^axc hncf i0 J c g| gndgp c| gi {²dn²pv ulgt/
 vgw n h v4^av xlu|cgo r^angl²ugndgp kv^aqw r^agv ku v^an^au. cpp{kv
 dk qp{qutc xgi gv^apm jqi { c| h1A Mrgdngdgti pgo uqnev hqi rcmq|/
 jcvqw urqtvcn jceum c i {gto gmqtk n143/4²uv. xcf^aul^acv^auv
 pgo ul^ao |^awn0 M^au dd pci {o²tg v jkcvnqu g^aqi rcm^aic²u c|
 gjjg| ner euq»f» ul gpxgf²n^agu 3/4n^ar²u ugo jci {jcvqw c urqtv
 ul^ao^atc uqm kf v0 L» e²n14^a 2u x^ak» r^agw dgn rg. co kg c t²ik O ci {ct/
 qtul^aiqp. jc xcnk r^aqk^ank r^an^atc r^argw. c lrgm ulgtkpv hgn²vgn^an
 ul^an^ai xqrv= v4^ad |^adgp pci { ulgo²n^agu d^av^ait»n vgw dk qp{^aiqv0
 Fg A0 p0 cm^ak urqtvgodgt uqj cugo xqn0 & o²i ku dgn rg r^agw c o qf gtp
 o ci {ct urqt^arv gi {km r^agi pci {qdd v^o qi c»lc0 C pgo |gv²tf gng
 n14^aul vgw vgttg c| ^an^auhqi r^aitc0

U pgo²tf gmngp c| ugo. jqi { Mrgdngdgti ëp²rulgt u²igi.
 co gpp{kdgp c tgpigvgi v^ocf^au gngp²tg ulcdf glv c ul»v jcul^ap^an
 pwpm c pci {qdd v^ogi gm gn w l»t²ulv c urqtvd»n v^ar^amq|qw0
 C urqtvgf xgn m ki gp pci { ul^a|c^anc pgo cf»h^agv < gl gm gn w pgo
 r^agv gi { o kplu|gtv c|cn g^a|v^apk jqi { c| ^amco r²p²d n uqnev
 n14^a# J c c urqtw^ogi gm gi {^ancf p wf^aqo^auv ulgtl vgm ku c v^oc/
 f^auqnt»n x^afcnt»n c wf^aqo^auv^avgn pgo lwqw gn p^anvm c|²t|²ng/
 p{gdd rqpvnki0 C v^ogi ô jc glv dk qp{qu lrgnal n p²ok jkrgu²i/
 ign gi {^ancf p o gi^ancr |j cvwm ô xcn»ul^ap r^agi ngfxng v0 Gttg o w
 cv r10 c urqtwn143/4n n gkpf^avw²u c n14^add dk qp{qu nettktv dghw»
 ëMrgdk dgegp²x0 C ënko gpfj cvcvp p^aix it»h|gn c p²xgn xqrvw
 dg c urqtw^ogi gm r^agi {kdg. o kpv cjq|cp c |qtf Vlu c Kuv^ap ku
 Vlu c Rku^atc r^ai|vwx. co knqt^av o gpgv^agi c j^adqt^au v^ogi ô gl cmc/
 nqo on ku v^axgugp ô c j^adqt^a x²n gkpf^al^av cnetc dgppg p²rulgt
 go dgt² cxcvpl0 C| kpvgni gpu o kptk^au n14²dgp o kpf ki ngfxng o gi/
 dgeu^av xqrv kunq^ak m^avw^aru kpv|o²p{gk vgtxgk o x²ulgvk r^aqk/
 n14^alc. ul»xcn c ul gmgo vgt^ang²tg gu cmq^av^ack o kw0 C pci { v^ogi
 c| qdcp gjjg| c p²rulgt u²ijg| r^agi h14gdd ënklegn^a ô co kpv c|

gi { km urqtvAlu²i o ci^av u¹mwuqcp nktgl|v⁰ Gi {²dn²pv c|qpdc c
 ngi lqdd gugvdg l>lpf wcv²cp ugo ngi gu o ctfv cdccp c xkfc cndcp.
 co k Mrgdgndgti ²u rqrkknck gmphngk n³4³w hqn¹0 C ³4⁰ gi . c urqtv
 n³4²x²ng²p{ cmqt^anv u¹fxgn¹r¹ngmgn o gn¹lg. co knqt wfqo^auwn
 xgi gwg. jqi { Mrgdgndgti gi {¹Aw xeuq^a|qw c x¹kr>n>/eucrcwen
 r>n>/m^av c¹rcr¹q^w. urqtv^atqu go gn¹u²p ³4¹v c h¹2^v. wu|qf^anev.
 urqtvgtngv r²vu¹gw. u v cmem kci c xgtugp{ v¹kd¹p³4¹p c ³4¹ddkgn¹
 nngi {¹Aw¹ftwmq¹m¹ ku⁰

! ngvdx^ai>cp hqvqu xqnv Mrgdgndgti ulgtxgl vgx²ngp{u²i g c
 nevqpc¹ v¹u¹pxgx¹u¹gn c r¹xgpv¹Äi i {gn n¹er euqrcvdc⁰ C r¹xgpv/
³4²x²p{v. c| 3;43< NKKK ve⁰v. Mrgdgndgti o^at n¹u|gp n¹er v⁰ Fg gl v
 ku. o¹kv c o¹gpm¹Äv gi {gvo gm gn¹gl²u²t n u|>n> ³4²x²p{v. c o ci^a2/
 pcm u¹fx¹Äi {²pgm ²gl v⁰ C| k¹v²|o²p{v ¹ex²i v¹g¹p¹Än hqvqucm¹ v¹t/
 v¹qwc gi { qn¹cp qtu^ai dcp. o¹kv Oci {ctqtu^ai. ¹ecj qn pl¹eu^anc¹r¹pqu
 x²f¹n³4¹ngl g¹w²i. c j qn v¹i^av gi { pgo|gk jcfugtgi pgo x^anc¹ij v¹lc
 o ci^atc c pgo|gv gi²u| l¹th³4⁰gi²pgm urqtv¹gt^a v¹r¹|²u²v⁰ C ³4/
²v¹pg¹go d n c|v v¹pw¹c. jqi { gi { n¹hgi {xgt|gw p²r jco ctqucp gn¹
 r v¹wn j c pgo i p¹qf qun¹qf km c pgo|gk u|go r q¹pv>n c p¹p{ktc hqvqu
 nevqpc¹ p¹xgn¹upgm n¹ci¹dd x¹rcok r>v¹r¹n¹t>f¹0 G²tv ngw c v¹u¹pxgx/
 r¹u h¹n¹q¹i^auc ulgtkv c v¹lcpqk qtu^ai dcp uqm|qtqucp hqvqucdd.
 o¹kv c n¹gi {g²un¹qtk Oci {ctqtu^ai dcp x¹rcj c ku n¹gi g¹v¹0 C h¹nc¹fv
 p¹gi²|u²i g¹kv v¹r¹p o²i pci {qddc¹pcm x²ng. o¹kv c n¹u ddk v¹rcu¹v/
 r¹vqm o w¹v¹nc n¹gi c¹dd ku c w¹n l¹nv jqi { c j^adq¹Ädcp. h¹ttcf c¹/
 o cndcp ²u c| k¹ph¹ek¹u k¹m u|qek¹ku|c|f¹cu¹ik h¹ndqo n¹w¹i^adcp c|
 gi {²dn²pv ku o gi v¹trcpv n³4¹ki c|ic¹uk ulgtxgl gv o clf pgo wf
 xgn¹Äm o gi d¹km|p¹0 Cii qf c¹o^adcp o²i c n¹p|u|gt cmem c¹u^av ku ¹o
 r¹gfki gl ki gp pci { u> p^are ¹o lqi quw¹pcm x¹nc¹wc< ¹e⁰gi xci {qm
 i | | f¹xg t>nc. jqi { c o ci {ct pgo|gv v¹Äp{qo> t²u|g d¹gn¹lc c u²ng¹/
 n³4¹ fgo qntc¹vwu v¹u¹pxgx¹u h¹ng²v¹p u|Äm²i gu²i²v. fg c²tv
 o¹kv ki ngul qn¹cp n¹kgddu²i ku. co gn¹g¹00 t^a ngm u|qt¹cpk ctc.
 co ktg u|Äm²i g xcp⁰ 0 0 c p²r ugtgi. c p²r kun¹ic c n¹gi fgo qntc¹vwucdd
 k¹v²|o²p{gm² u g¹gm ku o¹kv gpj qn n¹p{u|gtg² r¹Äp¹gm h¹n⁰ C x²i tg/
 j c¹v¹u c|qpdc u¹o^addcp o¹gv. o¹kv g¹g¹vg i p¹qf qnc⁰ M¹4 dgp cmem/
 o c¹v¹r¹ngi {²d v¹txglp¹gmo gi x¹nc¹u¹i² u¹tc ku⁰

O²i 3;35/dcp ³4¹pv ctc xqpc¹u|> k¹v²|ng²u. co gn¹ u|gtkv
 c n>xgtugp{gn²n c n¹Äu³4³Ä h¹qic^auqnp^an dghqn> ³4u|gi gnd n
 4' /qv v¹u¹pxgx¹uk e²m¹ntc ngm h¹tf¹cp¹0 3;43/dgp c ³4²x²p{jq¹a¹u gl v
 c j q|^al^atw¹uv : ' /tc go gng h¹n Äi { c|qpdc. jqi { c l³4¹gf g¹go)
 c|^am¹o r²p|v¹tdc h¹qn¹v dg u c v¹u¹pxgx¹ut n c|^am¹o k n³4¹m²i x¹g²u
 i p¹qf qun¹qf qw⁰ Mrgdgndgti ctc ³4¹ng¹gw. jqi { c| gtgf g¹ngi uc/

w³nv Qtu^ai qu Vguypgxgr²uk Cncr qv Àd>n xku^lc^anffuc0 T^al³4w wi {cplu. j qi { c| cncr xku^lc^anff²uc ngj gv x² vgu^lk o clf c v²uypgxgr²utg tgp²gnv ³4u^lgi gm e²nw²fcvquedd ²u i c| fcu^ai quedd n^lku^lcu^lp^aif^av⁰ C| ^amco k n³4m²i xg²udgp p{Àlvqw j kgn uqmu^lqt nku ²v²grngdgp l²r^lki /o g²ff ki p{qo vncpwn g²h²q^l0 C| cncru^lgt ng^lgr²u xku^lqpv o »f²qv p{Àlvqw c vctv²nc²nc²ut²c. vj^av c v²4d ²xtg v²tlgf h²pvquedd k²v² /o²p{gm i²v² /u²u²tg ku0 Mrgdgnudgti pgm o^at g²mq²t. 3; 46/dgp c Vguypgxgr²uk H / kunqr. c P go |gk Ucf kq² vud0 o gi cm²v²uc r²gdgi gw ul go g gn v0 3; 460 hgd²0 30²p dg ku p{Àlvqw g²ttg xqpcv²u^l » v²4x²p{lcxcu²v² < gdd n r²gw c| 3; 46< Kk0 v². co gn^l c| cncr xku^lc^anff²u^lxcn ng²dg cf v c vx^addk pci { tgh²to qm o gi xcn»u²u^lpcm ngj gv u²i²v⁰ Cff ki. co ² c| Àl v²4x²p{ g²h²q^lcf^au²v d²k²v²ut²c pgo xg²gv². c v²uypgxgr²uk v²4x²p{ x²i tgj cl²uk wcu²u²v pgo ku vctv²qc e²n^lgt pgm n²cf pl0 C| gi²u^l h²q^l{co cv²v o ci c h²q^lnc²lc v²4v²pgk j u²i i gn ³4u^lg< *Co kn²q² p c m²w²u^lo k²plu^lgtk v²te^av^a vx²gv²o. ³4³4³4²ngo gi { u²r² ²u u^lgtx²gv v²uypgxgr²uk v²4x²p{v fg gn xq²nv v²4³4²kg c Ngz I g²tp²c{. c v²uypgxgr²uk cncr0 Xq²nv »t²uk n²gtv fg Àgu xq²nv c r²p^lv²t0 C| ^amco k Ài {gm k²v² / |²u²dgp pgo u^lgtgv²m v²t²l²pk ²u pgo u^lgtgv²o q²nc²p vx²ng²p{u²i i²v²u^lcv²v n²ng²pk co gn^l pl²eu0 C| gn² ²u ng^lh²pvquedd xq²nv vj^av c|. j qi { xku^lc n²ngw^anff²cpw²m c Ngz I g²tp²c{v² ²u gl v xku^lc ku^anff² v²q²w²m c| 3; 46< Kk0 v²0 ngr²0 Cm²q²t ô pci {t²u^ldgp ucl^av v²nc²o o w²n^llc ô o gi euk^am²w²m c v²uypgxgr²uk v²4x²p{ x²i tgj cl²uk wcu²u²v² u²v g²ppgm cncr^la²p o gi cm²v²w²m c r²xg²v²kv² /o²p{v²0 3; 47/dgp ku²v Àcdd l³4g²gn²g²ngv d²k²v²u²v c| Qtu^ai qu Vguypgxgr²uk Cncr lcx^atc *3; 47< Kk0 v²0 C| Àl dgx²v²grngv t²u^ldgp c P go |gk Ucf kq² /²r²u²tg u^lgtgp² vctv²nc²nc²ut²c t²u^ldgp c| q²iko r²lck l^av²u²ntc xcn» n²kn²af²gv²ugm n³4m²i g²kg n²fx^app^a h²q²tf²l²cp²0 Gw n h²q^lxc wi {cplu c| À0 p0 ègo dgturqt²v dgx²v²grkd n ku r²g n²ngw Àpk ct^ap{qucp 4ô 42' /qv c| cncr lcx^atc c| g²ugv²dgp. j c c dgx²v²gn c| 722 c²cp{m²q²qp^a v^anc²nc²dcp o gi j cnc²v0

C| cncr g²gi {g²pi gv²ug w²p c pci { xct^a |un» o w²n^ldc h²q^lqv0 Gn ul ³4 n²kf²q^li q^lv c r v²dr²l²ku^l v²nc²kn gn n²u^lff²u xgl²t²u »nc²o c²k. co gn^lgm r²tq²ci cp^al^adcp c| w²p Àd>n ²u Àd>n h²rdw²nc²ppcn0 Pg h²rg²l²w²Àm gn j qi { gl cm²nc²o c n c u^l »nc²o q²nc²v c v²0 gi ²ff²u^lg^l n²ngw j c²pi q²pk c| ^av^a i j cv²nc²p i²ng²nc²pk v²4x²p{gm u^lgt²kv0 G² | gn c o gi lgi { |²u²gn u^lgtgp²m gi {gu t²kn²»dd o q^l |c²pc²qm u^ao^atc o^at g²rgx² o gi t²v²u^l d²k²v²u²l²cp²0 P² | Àpm gi { kn²gp t²u^lngv. co gn^l u^lkv² v²0²p{/q²nc² c0 m²gdgnudgti k urqt²v²r²tq²ci cp^al^apc²nc² è00 c V²l²cp² w²pk m²w²Àr²q²l²kn² / pcm pgo c u^l n²gm. u^lgo Àxgi gu. t³4k²l²u² i {g²to gm c r²gf²ci »i kck gul / o²p{g. cnk tgi i gn n g²u²ki n²3²p{xgk h²4²4w i ³4p{gf 00 o k ku n²fx^aplwm

jqi { c o ci {ct i {gto gm vcpwldq 2u wflqp. ok ku hlgngu vepk cnetlwm
 2tvgrk o xgm²i²v fg g o gngw cl v cnetlwm jqi { c l³k pgo |gf²m
 a nlp 2rgvt u. kloqu hAnd»n U jqi { c rtqrci pfc o²i jcv uqucdd
 rgi {gp. o kpl¹tv gmgphngv ku ngtgu oci^apcm cnkxgn ul go dgp gl v c |
 Al o ci {ct kl¹Ä¹i /gul o²p {v o gi x²fgrn gl jguug0 G | c | gmgph²n c |
 ägrn 2rgk r g fci »i wü. cnkpgm c | w³p j crcf²mcrcpwn hgl²dg ku Äk c j¹/
 jgf v xcunercr qv0 O kpv c v¹icdd 2tvgrn dgp xgw n¹4 x²rgo 2p { cnwul w/
 n¹l^av l »n kuo gt rwdrlkuc. o^at gn tg dk qp {qutc xgj gw. jqi { c | ägr/
 o²rgk r g fci »i wü c mÄ¹pdgp ku gi {qf cnÄ xkc dghgl v²xgn pgo uqm
 ul kor^a v²v n¹p {xgij gv gn c o ci c ul^ao^atc0 äL>n w f qo. ô ¹lcô jqi {
 kv ku ul go dgp hqi qo o ci co vñ¹tpk c | gm²rgk r g fci »i wuqmn cnkn
 o^atku eu »x^an^am c hglÄngv jqi { c | klÄ¹i vÄ¹i qucp t^aner qw c
 urqtvc0 Pngn pgo gul o²p {go ô jctucp hgn c o^at l » kuo gt u
 xgl²tu | »co nku² o^au jcp i ul gtr²udgp ô c ul n^o gm. ul go Äxgi gu
 i {gto gm cnk pcrjqul cv n¹p {xg h¹4 i³4p {gf 2u cnkpgm hlgngv p o gm/
 nr¹dcp 0 0 0 jco ctqucp h²u | ngv tcm c w dgtmw » | ku jcr¹m c fctc0
 Gi {2dn¹pv pgo jku go. ô h | k vx^add ô jqi { c | cpi qn p²r mwnÄ/
 t¹l^apcm o gi^atvw xqpc c urqtvc0 C mwnÄc 2u c urqtv n¹4³4w c xcn/
 u¹idcp pløeu gmgp²v c | gmgp²v jkgf grn g rgi h¹4lgdd qn {cp nrqrp {^am/
 dcp 2n co gn {gngv xcunercr hgf0 Mrgdgnudgti pci {qp l>n w f c. jqi {
 qn {cp gm²rgk r g fci »i wü. cnk xgrg gmgp²v dgp gul o²p {2pgm vnkpv²
 c ul m nku o gngcun¹dgp c w dgtmw » | ku jcr¹m c fct^av jqt f q | » i {gt/
 o gngv pløeu »u pgo ku rgu | 0 C | k {gp gmgphngv njo dknldcp ngm gn /
^an¹cpk jqi { c l » Ä { 2tf gn¹dgp v¹o c f p k 2u cncr qucp jgn {dgp ci {pk
 rgi guugp0 Mrgdgnudgti gv ul gpv v | jgx¹gw < c xk¹ij^adqtÄdcp 2u c
 euqpn^e qtul^aidcp h¹k knckci ku uqnev ul gp xgf o ci {ct^ai Ä | pgo |gf²/
 n¹v c t²i k²n gt ugddpgm gi²ul u²i gugddpgm c tg^apm x^at » mÄ fgrn gm/
 dgp gmgp^am d dpcm ul gtwg xqpc n¹vpk0 C ul gpv e²rtc xcn » vnkpv²gn
 vñ¹p pg ku grn gl | Äm vx^add c mrgdgnudgti k urqtvr tqr ci pfc jctek
 gul n¹4 gk0 C dcl eucm c |. jqi { gl v c jcteo qf qtv o^auqm c vguvpxgr²u
 2tf gn¹dgp n¹u dd cmtt ku gn xgw²m co knqt ngx²udd² l » Ä { x²fgr/
 o gl²u²tg n¹u | Än f vgn0 C xcunercr gi { kf dgp o kpf gpnkpgm uÄ¹i ugp
 nÄ^atv. cnk d¹pa¹tpk o gtv u v c ppcm ku. cnk cmerqo cf¹v p pgo xqiv
 j clncpf » c | qpcnvr uqrpk0

Gn tgpf gv qpf qf uc xqiv Mrgdgnudgti pgm jqi { c | Ä | urqtv/
 r qnk¹iv 2u vguvpxgr²uv o gi hngn gp o qf gtp vguvpxgn /v p^atn¹r | 2u/
 ugn cncr q | c o gi 0 C t²i k l>n dgx^anv ul cd^an {d>n kpf wv nk < o kpf gp
 c | go dgtgngp hqtf wn o gi # äG | c | 2n rgn¹t c n¹p {gi. o gtv g p²mÄn
 c v¹4x²p { 2u tgp f grv eucm uclv cr¹# C j j q |. jqi { c o qf gtpgdd.
 gtgf o²p {gugdd vguvpxgr²u o w n¹l^av x²i rgi gugp dk vqul¹uc. ul Än

u²i gupgm r¹vc c| Æ Vguxpxgr²uk H kunqr hgr n¹u¹o Qn{cp qmcv/ nev n¹u¹pv ppxgpk cnkm c| gtn³æuk ppxgr²u. c hgi {gro gl²u. c n³4/ gi²u|u¹i Æ { ²u c urqtv n¹tf²ugkdp gi {h¹to c qwj pqu¹a¹i i cn o q|qi/ p¹cn O²i 3; 47/dgp o gi u|gtxgk ²u hgr n¹u¹lc gl v c o ci c pgo²dgp xcn/ dcp o k¹vcu|gt k¹v²|o²p{v O Gn u|³4 c v²txgkdp qn{cp uqnev u|gtr n xqrv ucufk n¹mc{c n¹xctf¹a¹v u|go gng nk u|^ao^atc h³4²n i {cp^apv O M¹u dd. co knqt c r qn^atk kunqrk vcp^atn¹r|²uv^a u|gtxg|vg. hgn|cdcf v¹w c dwfck Rgfci »i kvo ²r Æ vgo C| Æ h kunqr kw p{gtv x²i rgi gu »u vx^addk hgn f²uk rgi gv u²i gngv ku p{Æv gij gn{gl²u O È J qi { hgr gl uf Æ n o clf n³4²r hqm Æ kunqr kndcp ku c| ²ngv. jc pgo c r¹gn¹4n u|gtvtp^ap. jcpgo c u|cdcf v²tk urqtvnup rgu c u¹Æ r qpv. jc o k¹fp gi {gu kunqr gi { nku urqtvgr rgu # fncf dcp pci { o²t²v ndgp v¹o qi cwc c f¹k m urqtqv. co gn{pgm hgn u|v²ug o^at 3; 43/dgp grkpf w¹0 3; 46/dgp c| cffki k u|gtxg|gv jgn²dg Æ qtu^ai qu urqtu|gtxg|gvv r¹vu¹lgw. o gn/ pgm Æ {gk o k¹fx²i ki gt ugp ²tf gng²m hqvqucdd xgtugp{gk o gi/ lgrpv. xci { rgi c¹dd n¹r xlugngv o ci^av O gi u| Æ vgw c| cffki jkxcvncup jcu p^anv vqtpcvp¹ok e¹o gv u jgn²dg j q|vc c| Æ cdd hgl/ n f²upgm lqddcp o gi hgrn v¹guxpxgn vcp^atk gpxgl²u O U cd^an{q|vc c v¹guxpxgr²u o ci^ap qmcv¹u¹v ku O v¹pn¹lc g¹gf o²p{²pgm vgnk¹vj gv. j qi { c| 3; 4: K; 0 n³4²u²i xgv²uk ²xv n ngl f¹xg c v¹guxpxgr²u o k¹v hq/ vqu nqto^ap{|ck^ai c n³4²u²i xgv²udgp Æ e¹o gv. m¹Æ p ngtgvv ncr qv O G|v c ngtgvv ki {gnl gw c dgtw^a|^auk Æ u|gi gnd n ku v¹r r¹pk O W| {cp/ eum 3; 4:/dcp tgpfgng gn c n³4²r kunqr ndcp c jcto cf km v¹guxpxgr²uk »^av. o clf Æ d^an n³4²grl x² vgw c| cffki gij cp{ci qv l^av n²nw¹pq/ nev O fncf dcp o k¹fp o »fqp rt»^anc c n³4²r kunqr v. o k¹v c urqtv²tf gm f²u cmr l^av. gl gp c xqpcup gt u¹gpk O^at gmu¹cttc iqpf qv. j qi { g t²xgp c| ²vgm k¹i k n³4²r qu¹v n{dcp c| cv¹ v¹n¹pcm o clf c| cffki k¹a nuqmnu¹l²rgudd d^a| k¹a vner lc O

Dgrxqpv c v¹guxpxgr²u n³4²dg c eugtn¹u|gvv ku. co gn{t n c|v vctvqc. j qi { è pgo eum c v¹guxpxgr²upgm jcpgo c| gtn³æuk ppxgr²u/ p¹gm ku xk¹i u|gtv gi {km rgi lqdd k¹v²|o²p{gk .. t³o o gn u|go r¹ng c eugtn¹u|gv n³4²dgp c|v c pci { hngpf Æ¹uv co gn{pgm grkpf¹lc pgo nku t²u|dgp o ci c xqm O C eugtn¹u|/u|³xgv²i pgm Dw¹cr gv¹u|²m j^a|cv xgv c tgpfgv ²xk ugi²n{v c n¹u|gtv²tg go gng hgn u|c qn¹Æ Æ n jc o »f¹lc xqv t^a. m¹Æ p Æ u|gi gngv u|gtl gw c hgn|gtgr²u *r¹vc m uvd O mgi²u¹Æ²u²tg O 3; 4:/dcp 9222 eugtn¹u| w¹q¹o o^at v¹dqtde u^ampk O Mgdgn¹gti gl v c u^ao qv 49.222/tg u|gtv² hrgo gpk# C| gjj gl u| Æ u¹u¹gi³u|gi gvc jcu pqu dgtw^a|^auqmvtj²tg cnetv gn v¹tg v¹gk O

Ngi h dd hgrf cv¹pcm o²i ku c|v vctvqc. j qi { c urqtv u^ao^atc o gpv n pci {qdd v¹o gi gngv o q|i »u¹u¹u¹ O gi²tg|vg. j qi { c urqtv

k^apk²tfgmf²u crcl³dcp x²xg jecm cu xk²fio qlicmo u nkvp²t²ng xqiv cjjq|. jqi { c v⁴o gi jclmpf »u²i qv gl cmemo ocn c o ci {ct Ai { xkqt²fdc hqilc dg jclvgt n²p0 C r²xgpvgo qlicmo ul²kp²p cmemo cupcm r²vul²qw cttc. jqi { c urqtvi qpf qrcvpcm o gpn o²n²gdd t²vgi gmgv j »f²vup o gi 0 C| cffki ctkul²qmtcv²mwu ul²pgl²gv urqtqv²u c n²4²rqu²v²n² cffki k vtp²a²v² a ncr²pqu pgo |gk v²u²pgxg/ r²u² cnetv v²i²cpk0

U gl gp c v²tg² ku fgegp²ctk²a n0 eMgm jqi { c o ci {ct²rgv pci {qdd xk²nk i »erqpv²ckdcp ku h²i ncmu|| cpcm c o ci {ct urqtv r²tdi²o² a kcn` n²gm jqi { m²A²p²4²g² gl gndgp c pci {qdd xk²nk i »erqpv²ndcp grxgp urqt²v²rgv h²ln f²l²m= cmt² o clf q²ko r²kn²plckm ugo ngt²Ap²gm nk v²ap²qo »cp c h²x²tqu p²r²gu²i²d n jcpgo pci {qdd v²o gi gnd n x²rcul²v²cv²m nk c r²i²ttc xcn²ddc n²v0 G²tv c v²u²pgxg²uk o qlicm cv h²l²ngu²v²pk j²kcv²w n²pi t²gu²u²qnev ul²g²g²u² v²cv²wc xk²nk x²tqu²nd² dcp< U gi gf gp. o clf M²geungo²v²p. O²ku²rq²p. R²eugw. I { t²4²w v²ud0 e²fi { n²4²A²j²qt²q| w²m o² f²lc o² c v²u²pgxg²uk i qpf qrcv |²a ul² n²l²v c| qtu²a²idcp² u dgr²xqpl²w² o w²n²pn²dc c v²ui {²3²ngt²gu o ci {ct² r²gv²gm² r²rgp coc i »erqpv²ckv² cjqn c pgo |gk² t²|²u c r²gi gt ugddgp n²Am²gv u o²i k²n²dd d²k²v²u²l²w²m c v²u²pgxg²uk i qpf qrcvpcm c pgo |gk i qpf q/ r²wcn xcn»² 3²u²|²gu² 3²k² f²2²v² u g t²xgp c o ci {ct p²ck²q²ck²o w²pcm ku v²x²ddk gt u²l²2²v² O²gtv gl xqiv ul²a²o²tc c h²p²v²u< c o ci {ct p²ck²q/ p²ck²o w² gt u²l²2²ug# C fgegp²ctk²a ek» i qpf qrcv xgl²g²w cttc ku. jqi { c D²rcv²p²v c o ci {ct urqtv gi {k²n jecm cu v²gr²x² h²l²ngu²l²g0 K²g o²i i {gto g²mtk go r²ngm h²|²v²n0 C| c²pp{²kc ul²gt²g²w v²j²cp{k l²n²li²g²v x²co k pgo |gk r²ctm²r²2² cnetv² a²v²to² a²pk u qv ul²gt²g²w xq²pc jecm cu j²cl²n²qv go g²pk c o ci {ct urqt²vpcm ku0 V²3²du² 3²4 go r²gi g²v. jqi { c eug²n²u²gm r²xgp²v²m² u c h²ku²q²ck k²l²A²i t²u²2²tg urqt²v²gr²gv² u v²d²qtq| »|²j²gn²gv ul²gt²v²g² qv r²v²u²l²g²pk0 C o w²n²rv²qnev j²co²ct²q²cn gn ku n²gl²f²v²n0 f²nc²rdcp u²qnev v²4²v² c h²l²v. jqi {cp r²gi g²v²c d²rcv²pk urqt²v²rg²v o gpn o ci cu²dd ul²px²q²c²tc go g²pk0 C d²rcv²pk Af²An / j²gn²gm v²x²2²ngp{ n²r |g²v²dgp o²t o²kp²o²gi c²pp{k urqt²v²gp²wo² a² h²ln f²v²n0

C V²u²pgxg²uk H²ku²q²r. c ul²a²o²v²ncp v²tp²cv²tg²o. urqt²v²a²n²c | o g²ngw o²i v²x²ddk h²p²v²u cm²u²v²u²m o²ct²fc²m w²pc0 G²gm n²4² ul²a²o² f²j²cv²w² c| Cm²q²o²a²p{/weck j²a | o gi ul²gt²2²v² co gn²dgp c V²u²pgxg²uk V²cp²eu²q² n²l²A²n qv²q²p²v cf²q²w c| gi {gu urqt²u² 3²k²gu²i²gn² pgm ku0 Gi { o²uk²m h²p²v²u cm²u²v²uc xq²v co gn²pgm r²v²u²l²2²v²j²g| c h²x²/ tqu² a²r²q²cv²u²l²2²v² ku o q i »u²l²q²vc. c| Au² »m² u x²l²r² »n²|²qm ul²a²o²tc cm²u²q²w h²g²fw w²l²q²c0 G²ddgp c v²ng² ku t²gp²f²gm²2²ut²g² a²m² k²v²| / o²2²p{dgp h²ln f²vm nk c pci { gt²fo²2²p{gnt²g j²kcv²u²l²pk w²f » h²cv²rcdd

Àu »kpm 2u x¶k »n» »kpn0 C| w»ddkcm ul^ao^atc crcr¶qwc c o kpkul /
 vgt c pgo | gvn³4k urqt^vrgvdgp ku cpp{k^c p^gxg|g^u Mrgdgnudgti/nw^a0
 Fg xqncm o²i vq^xddk pci{ vgtxgk< c V²rk Urqtveuctp^qm 2u c
 Pgo |gk Ucfkqp0 G|gnp^gm o gi xcn»u¶³u^v c i c|f^cuⁱk xk¶i m¶k ku
 jkÀu¶qwc o gi 0 R^efki m³4p³4up c Pgo |gk Ucfkqp vgt²v o gnmqtc
 i qpf^cn o g^gpi gwg# Gppgm i^vg^u¶²u^v vgnkpvwg xqpc gi²ul v^gu/
 p^gxg^ruk cne<lc o gi nqtq^a|^au^apcn0 Vwfc. jqi { c n³4x²rgo²p{
 gi { t²ul g c n³4u²i gu k^v2|o²p{ o gi xcn»u¶³u^apcm o²i c i qpf^cq^v »n
 ku l¶|q^v0 O²i ku ^am^pf »cp p{k^xa p^ct^vqwc c o gi xcn»u¶³cpf » h^gnc^fcvqm
 n³4³4u0 O^at gn tg c o clf gi {ul gt o ci {ct h³4f³4p o gi v^ctcpf » q^rko r^kul
 ul Àu²i r^gvgt gi q^pf qⁿ#

T^ao w^cw^wpm o^at. jqi { Mrgdgnudgti c pgo |gk ul go r^qp^vÀ urqt^v
 »n pgo x^arcu^vqwc gn c dgppg t^gln t^gpf n¶k^Àk rtqr ci c^pf^c/²t^vng⁰
 Vgto²ul g^u v^gj^av jqi { c r^ei pci {q^dd hⁱ {g^rgo o gn n¶²t^g c o ci {ct^qm
 ul gt^rr²v c| gi {gu q^rko r^kul qⁿup0 Gi {k^m e^km⁷d^gp ^aw^gn^kp^k c| g^rt^v
 gt^gf o²p{gⁿg⁰ C| gⁿu p²i { q^rko r^kul q^p ^an^crⁱd^ep ô gi { g^ug^v n^kx²v^g/
 r^gx²n co kⁿqt e^ucm gi { i { |g^m g^v u^kng^tÀ^v j c| c^j q| p^wpm ô n⁷vⁿv
 i { |g^m g^v c^tc^wpn0 C ngw^gu t^ko w^u k^fg²p c| Àu »urqt^v f^qo k^paⁿ=
 n^et^fx[¶]»kpm o²i pgo v³4v^gm gn tg0 C n³4x^gvng| n⁷v q^rko r^kul q^p.
 o²i c xk^fi j^adqtÀ gn w o^at j^atqo /j^atqo i { |g^m g^v c^tc^wpm u c|
 2^tg c n^et^fx[¶]»m n^gt^Àngn0 C j^adqtÀ w⁷pk j^atqo q^rko r^kul n³4^Àn c|
 gu p R²t^kud^ep n⁷v i { |g^rgo j^g l^wq^wpm c o^au^fkⁿup. Co ul v^gt/
 f^co d^ep p²i {j^g. c j^cto c^fkⁿup. N^qu^Cpi g^gu/d^gp j^cv^q|0 C| gt^gf/
 o²pp{gn ^an^crⁱd^ep o gi x^qiv g^ri g^fx^g< ul^ao^awpⁿj q| n⁷r^gu^v g^ri l[»]n
 ul gt^ggⁿÀ^pn#

O^kpf^gp^v o gi v^gul. jqi { c i { | m 2^tg|2^m c pgo |g^v j^an¹a⁰
 C V^gu^vp^gx^gr^uk H k^un^qrc j^a|^ad^ep c| gn e^uct^pqⁿdc o^at^xa^p{^vd^rc
 n^gt^Àn c i { | m p²xu^qt^ax^c< c v^qx^addk i { | m ul^ao^atc c v⁷d^rp o²i
 o c^tf^v j^gn0 H^gr^gv^gw c|v c i q^pf^cq^rv^qv ku jqi { D^wf^cr^gu^v gi {k^m n³4/
 v^gt²p n^gng^gp c|q^m p^gx²v o gi 3⁴3⁴n[¶]g^pk n^km èc o ci {ct n^kx^an^ui^t»n
 c gi²ul xk^fi gn w v^pÀ^ri q^v v^gwⁿi 0 U m³4p³4up c^pp^cm 3⁴Àⁿ jqi { c|
 q^rko r^kul qⁿup c n^ku g^vg^vg/d[»]n L^wi q^ul r^xlc 2u T^qo^apk p^kpeu u^gj^qn u c
 j[¶]gu Eugj /U n^xaⁿk ku gt u^gp r^go c^tf^v0 èJ^kd^c# C|. jqi { o k r^g x^c/
 i {w^pm h^gi {x^gt^g|x^g. c o ci {ctd[»]n g^dd n c t²i k n^ev^qp^epgo |g^vd n pgo
 e^ulp^aiv H^ku|v^gt^v 2u c n^ku g^vg^vg p²r^gk^dn c|. jqi { ^an^ki h^gn x^cp^pc^m h^gi {/
 x^gtⁿg|x^g. jqi { v³4²t^fgⁿv n³4n³4v^gm m³4p³4up c v⁷o c^f» h^gi {x^gt/
 pgo gⁿt^g< c p^gj²|v^À2^tu²it^g 2u c v^pn^qntc. o²i pgo e^ulp^aiv urqt^v
 pgo |g^v0

E²n^wf^cqu o w^pn^et^gp^ful gt²v pci {q^p l[»]n o gi l^uo gt^jg^vÀ^m c| q^rko /
 r^kul qⁿtc xcn» n⁷ul À^gv^d r0 O^at c| cr^rl^ad^ep x²x^g ul gt²p{ co ul v^gt/

fco k gtgfo²p{gnpgm ku 34Än0 Mkv p cmerqo pcm vctvqc ulgtgrñ/
 uÄngv cttc. ëjq{ pgo |gk lgrgpv u²i Äpm wfcv²v c xkfi n⁴x²rg/
 o²p{²dg o²i lqddcp dgrgxi{Än0 Pci{1^adcp qn{cul²rg vcpÄ²i/
 v²grpgm vgnkpvwg glv ku c o ci{ct kic|u²i o gngw. o kpv n²r| o x²/
 ulgpm nÄñ²4fk ukngt²gk0 Fg pgo rlgjpv c o ci{ct ded²tqnq0 C KZ0
 qiko r²l²u|t»n xcn» dgu^ao qn» o^at gn n²u|Ängw² x^anx jqi{ c Z0gp o²i
 lqddcp ulgtgrgnÄpn0 C o kpv v²tkwo dc ²tvgnglrgvgv j²kqw 34u|g.
 cogngp o gi xkewc c ukngtgm²u pgo wqn» uqtdcp c| gm ctfv ukng/
 tgm qnck0 Mktg²vgw. jqi{ urqtvgodtgkpm c| kvjpk ugnlgl o²t/
 m|²ugndgp^an²cdcp lqddcp ulgtgrgnm o kpv qf²cnkpp0 Vg^av c
 f³pv rknpcvqndcp c| kfigm o qpf²m hgn c ulqia^arcvq0 Gppgm qnc
 c| ëqiko rck n²|i0 Cv²v²kpm plpeugpm gñi² jq|^au|qnc c| gnu tgp
 nÄñ²4fk nix^an²i qmen xcn». pci{ p²| n⁴3²pu²i gn w rghqncvqv
 nÄñ²4fgn gnj|0 G²tv uÄi²vgw c hfgw wu|qfc²u c v²rk urqtveuctpqn
 hñ²r²u²v² c| cmerqo rgu^ancpf» v²pkpitg²u pci{ xgtugp{gm
 tgpfg²u²tg0 Uqttgpf dgp c v²rk urqtveuctpqn^av o²i c Pgo |gk Ucfkq
 gñ²xqnvj clncpf» jgn|pl0

|rgv wqn»²x²dgp. 3; 540^artkku 460²p o gicr²qvc c Oci{ct
 Qiko rck V^atucu²iqv. cogngpm rgw c| gnp³ng0 O^at gn|ngi pci{/
 ghqi rnu²ic gngp²tg kf v vñ² cttc. jqi{ c| qiko rck i{| m jcxqvc
 tgpfgl gw v²tucu²34u|gl³kgvrgkv hngtguug0 C| Ä v²tucu²i gnu n⁴/
 i{ n²v² ulgrvgo dgt x²ig hñ² vctvqc0 Mrgdgnudgti kv o qpf²cn
²rgv gi{km wqn» dgu²f²v0 C v²tucu²i o gicr²q^au²xcn c vx^addk qiko/
 r²l²u|qm ulcmulgt gn n²u|²v² cnetv d²kvu²cpk0 O^at n²u|Än c dgt/
 rkp qiko r²l²u|tc# Gppgm xkfi²tcu|»n» ukngt²v o^at pgo ²tjgwg o gi0
 C o ctqnp{k v²cpk o ci{ctu²i c xkfi 34u|gu pgo |gvk n⁴3²4w v²/
 ctc{²t²xgn v²| i{| gn²xgn c jcto cfkm jgn|tg fqi|v gn tg o ci^av0
 C pgo |gv crtele/pci{lc wfc. jqi{ gl gi{Även Mrgdgnudgti pgm
 c urqtwo kpv v²tpgm rqujwo wu gñi²v²ng0 Uqm o^au gtgfo²p{ o gngw
 c dgrkpci{ fleu²i ku l²t²u|v c| e²nwf²cvqu. h²tcfjcvwcp nwnÄ/
 rqrkñ²l²pcmxqvn²||ghqi jcw» gtgfo²p{g0

Z0

Gn nřu Ārgv c rwdreku|vnek vgx²ngp{u²itg0 ô OĤtv ngw Mrgdngdgti rwdrekuA
 ô Rtrqci cpcf/o »fujgtg0 ô Ekmfj»k vgx²ngp{u²i²xgn ëo gi jquu|cddfjcpkì rt»/
 d^aric c o kplu|vgtk jcv^unř4v0 ô C rtqdr^oa^m rwdreku|vnek vřti {cñ^uv ki {gm
 ulm c per k rqrkñc ulgo rqpvc k hř4ř go gpl0 ô C ëmcuul kmuì rwdreku c o gi /
 jcv^utq|^auc0 ô Rwdreku|vnek o nř4²u²pgm^amqo^aucl0 ô C pgqpcckpck^owu
 o kpv pgo|gvpvgrřuk rtqitco o u o kpv gi²ul nwm^utr qrkñc o nř4²u²v dvgv |
 ulpv^u|k0 ô C o ci {ct pgo|gk²t|²u tgpfnřk Ārk gtglg0 ô C| 343m o ci {ct
 pgo|gk²t|²upgm o qf gtp vctv^o cv ngm cf pl0 ô C lqi²u nř4^urgu²i xlu qp^a/
 pem All^atgpfg|²ug c o ci {ct²rgv²t|²udgp0 ô C vřtxulgt u²itg k^ap{w» pgo|gv
 pvgřu^o ô C ëp²r k²u c ëhcllⁱ i qpf qrv^o ô C wtcpk^owu0 ô C ul qek^uñu hgn f²u
 hřpvqu^ui c0 ô C p²r k²u pgo|gk i qpf qrv 34ul gner euqř u² pem ul Ām²i gu²i g0 ô
 C nwm^añu gn tgj cñf^a u² c i c f e u² i k d q r f q i w u u l² v d p v j c v c v p g i { u² i g 0 ô
 C h u e k^o w u r² r^a l c 0 ô Mrgdngdgti hřhqi^auc c h u e k^o w u t » r 0 ô C h u e k u c
 o w p n e / j k o p w u l² v t v g o g l² u g 0 ô C p g q p c e k p c r k u c g m² r g v h q i c f v c v c o c i { c t
 ul g n g o k² r g v d g p 0 ô Mrgdngdgti gi²ul r q r k ñ c k² r g v c v^o c f^a u q m r g t i v Ā² d g p .
 v g r v g r 0 ô O c i c v c t^u u c c h q n^u v p o g i Ā w » v^o c f^a u q m m e n u l g o d g p 0 ô C o g p p { k
 d g p g i {^a n c n^u p h g r v k u . c u l g o² n^u g u n g f² u g n t g c n g i v^u d d u l 34 p g o x^a r u l q n 0
 ô Mrgdngdgti ëp{wⁱcvlⁱ o ci {ct^ui c0

Mrgdngdgti gi²ul² r g v² d g p u l^u k g u g p h q i q w v q m v . e u c m t² i g d /
 d g p . c | g n n ř u Ā r g v² x g k d g p h n g i o c i^a p c m f^u v . n ř u d d r g f k i k p n d d
 c p c i { p { k r^a p q u u^u i p c n 0 C | g f f k i k g n d g p u q n e v j k c v n u l v o l g i { | g /
 v k t g . c p c i { n g o² p { v^u d r^u h Ā g v m t g . c o g n^u g n g v c n g i m Ā^u p d 34 d d
 v c t v o Ā c f c v q m e n g r o² m g f² u g m g n v Ā^u w o g i 0 C | c f c v q m n g i /
 p c i { q d d t² u l v v Ā^u p g v k x q p c v n u l^a u Ā c m f g d x g p c n e f n Ā^u v Ā m o x² /
 u l g w^u v p g v k g u l^u v^u v n e k n Ā^u k i c | i c v^u k n Ā^u q m c v^u k x q p c v n u l^a u Ā 0 H g r /
 l g i { | g | v g c h p v q u c d d r q r k ñ c k o g i p { k r v n u l^a u q n e v . h n g i c m n t . j c
 c p g o | g v k² i k n Ā^u t f² u t g x q p c v n u l v e n 0 K q f c m k q r k c u o^a p { c k d » n n ĩ l g /
 i { | g | v g c u l g d d . r t g i p^a p u e d d i q p f q r v q n e 0 M^u d d o^a t i { c n t c d d e p
 v c n^u m u l w p m l g i { | g v k d g p g n c f^a u q m x^a | n v^u x c n e k m v g t x g | g v m g n
 d g u l² f g m o g o q t c p f w o q m d g u l^a o q n » m i q p f q r v o g p g v k g n x^a | n v c k /
 x c n 0 M Ā^u v Ā m l g r p v^u n g p { j g n^u g v h q i n r p c m r g c L w k^u p / g i { g u Ā r g k Ā i /
 x g l g v k i c | i c w^u t^u i k d g u l^a o q n » m o g o q t c p f w o q m u l c d^u n | c v v g t x g /
 | g v m h q i c m c | x^a p { c k 0 G | g m h q n u l v q u c p^a v g l g v p g m c p { k r^a p q u u^u i /

pcm ul »n» ktqfcm k o wpiñ uñ i j q l = co gn(o^at l »xcn o kplu| vt u² i g
gn w o gi kpf w m. fg pci { qdd ct^ap { qndcp o²i ku eucm m w n r q r k k n e k
v x² n g p { u² i² x g n n e r e u q r v d c p ô ct^ap { n i n² u p ô d q p v e n q | q w n k 0
C v p w n² x g m c | q p d c p o²i g m n t u g o² t v g m x² i g v 0 C l g i { | v g m o²i
v x^a d d u | e r q t q f v e n 0 J c p c i { g r h q i n e n u² i c n² 4 d g p e r k j g p v i v e r² n
v x^a d d i { l v v x^a d d v p w n 0 M r g d g n d g t i g v p g o r e j g v c e u g r n x² u
v t² t n r g u | q t { k p k # C o k p l u | v t u² i g v n² 4 g v t³ 4 k f k f . c r k i v² 4 d x c r /
o k x g n g i { m w t c g u | v p f p² n o²i o k p f k i v g r g x c p o w p n² x c n v g w n
v g w g n v g n n² u | v v p w n² u c n g r o² m g f² u g n u A l c d d² u A l c d d l g i { /
| v g m n e k m g m g r 0

O k p f g p v x² i k i q p f q r v² u o g i o c i { c t^a | q w 0 C t t » n k u d g u |^a o q n
o k² t v r g w r w d r e k u e 0 C o c i { c t r q r k k n e k i q p f q m q f^a u u l g t k p v g c o A n d c p
p c i { q p i c | f c i x q n 0 D g y r g p I^a d q t r g x g n k \ t² p { k O k m » u r t » | c k k e v k
U² e j g p { k M q u u w j . F g^a m M g o² p { u v 0 o k p f j q l |^a P^a t w e m g i c | f c i
n l p e u² t i { c t c r { v² u² j q l 0 M A n² p³ 4 g p c d^a n x^a p { q l q w o k p v n² p v v n k p /
v g w t g h t o n q t c f q w u² r r² r^a n e v < g n u t u | c m x c r o g p p { k x g l g v /
r q r k k n u e g i { A w e n v n h t i c w } g o d g t 0 G j j g l n² r g u v c l g r e p j c p { c v² u v
o w e v 0 C p c i { g n f³ 4 n i q p f q m q f^a u w m e n^a u |^a p v q w^a m c o c i { c t² r g v
r g i v² 4 d o g l g l² v g l² t v w f² v m p g o | g v A n g v k^a p { { k p k 0 W e d d c p c r q r k /
v k n e k² r g v v t² p o c l f p g o n² 4 g r g l x² r g w d k q p { q u i q p f q m q f^a u k t g u v
u² i < t g p i g v i c e u c m q f c x g v w n k p g o g r g o | g w x² i k i p g o i q p f q r v
l g n | » . c o k x g n c u | » o c i c u d d² t v g m² d g p x g w r q r k k n e p g o w f o k v
n g l f g p k 0

C j c p { c v² u d c p c n e t c v e p w n t² u | g x q r v H g t g p e L > | u g h g i {² p k { r² /
u² p g m c o g n { g v o k p l u | v t g k u |^a o^a t c k u j c m i c w e r i q u c p n² 4 g r g l x²
v g w 0 H g t g p e L > | u g h v e n k p² n² v t v » g o d g t x q r v u o k p l u | v t g k v n k u o g i /
n² k^a p v c v e n k p² n² v t v² u v c o k j g l j q l |^a v t v q | q w j q i { c u e l v d c p
u e l^a v {^a u c k m e n r e j g v r g i p g u q n e v u l g t g r g r l p g n 0 X q r v t^a g u g v j q i {
c | g i { k m o k p l u | v t r w d r e k u | v k n e k n k^a p f w² u c k v c | v t e m q f » c o k p l u | v t /
g p³ 4 n p g m u | » x^a v g w 0 F g c | » c p c i { q v h t f w w c x k^a i 0 C o g i x^a n q | q w
n² 4 A n² p { g m n² 4³ 4 v c o k p l u | v t p g m j c x c r o k v e u k^a p k c n e t u p g o /
e u c m c j k x c w r k t g u | q t v o w p n e i² r l g u x² i |² u² v v t v c h g r f c v² p e m d g p p g
n g m² p l g c n A m g v² r g v n g m u n² 4 g r² d g p .² t k p w n g l p l g n g m c | g o d g t m²
n g n j q i { n² k^a p u² i c k u d » n³ 4 | v² p² u v n e r l q p u j q i { v e t x g k u |^a o^a t c
d k v u | u c j g n g u r² u A n g v 0 C | A l j g n { g v d g p p g o g r² i . j q i { c h g r n² k w
r t q i t c o o . c o g i x c n » u |² u t c o g i² t g w t g h t o c p g o | g v l c x^a v u | q n i^a r l c <
c p g o | g v p c i { v² 4 d u² i² p g m c n g l f g o² p { g l² u g m u | A m² i g u x q n² v k u
d g n g m n² p l c . o g t v e c | c m² k o k p l u | v t v² 4 g m x² u g k u |^a o^a t c c o g i /
p g o² t² v u n² 4 A n d g n A n w i { c p e p p { k o k p v c x k^a i | » i { A o³ 4 e u² p e m c
n² u k h c i { 0 C n k i { g l² u n u² a d c p r e j g v g w d k q p { q u g n n g n v² x q n² i q v

vctvpc k c nqto^ap{|cv²u c n³4x²ngo²p{ n³4³w jku|gp c| gi²u| tgp/|
 u|gt²rrgp c u|¹po ci{ct h¹i i gvgpu²i k v³o gi gm gn w o^at u|¹g²uk
 jk^al^ap^an hqi xc gm²pu|gpxgu. c rgi lqdd gugvdgp n³4³o d³4i xqnv u c
 jvcwm k erret^awu o²i ku |³4mgp²uv n o gpgvugp wfqw o n³4 p¹o
 C n³4 rqp²k jvcwqo gn³4t gtglg o k²vgi { o ci^aw n d¹i v¹q¹qc c pci {/
 l^adcp uk o c nqto^ap{|^au⁰ C| ³4u|gqo n¹u w³p c|qpdc²c pci {qdd
 ct^ap{|^ar q¹rk¹ck o xg²v²gm r²dq¹{q¹i¹v¹u¹q| o^at pgo g²i c hgn¹At n
 n²erqw v¹o qi cv¹u c u|¹Am²i xcp c pgo|gv pci { v³o gi g²kgm jgn{gun
^an¹uhqi n¹r¹u¹tc. u v c n²mgugf²u n²gp¹v gtgl²tg k⁰ M¹Ar³4³ugp hq¹v¹q/
 pcm vctv. jqi { p²ro xg²uk²u wfqo^ap{|r q¹rk¹ck n²tf²ugndgp c u|
 ki c|k²tv²gm²dgp xgw n³4x²ngo²p{ h¹ln fl²m nk ogtv glgp c v²tgp
 i{cmtcp o gi v³4v²pkm jqi { xc¹cnk gi { v²gw|gv u h^a|kuv d²gnf qd c
 v³o gi dg. glv gi { fctedki jcp¹q|cv¹m w³pc o q¹fqi cv¹m fg c|w³p
 c eugn²n¹ { ²tf gm f²u n³4x²gn|o²p{gn²pv o k¹pf gp greug¹pf g¹g¹k⁰ R¹g¹ki
 kw pgo c n³4³4{ eug¹pl²tg xcp u|¹Am²i. jcpgo c n²w¹Atc r¹quv¹n¹i
 gi { pgo²tg. co gn{ qtth¹kv¹qi cv¹u p²m¹An ki²p{dg xgu|k c rgi u²ng²dd
 p²r¹v³o gi gntg xc¹ t¹ajcv¹u o q¹f gtp gu n³4 g¹kw. c ucl¹w/. c| gi {gu¹g¹vk
²u c i { r¹uci k³ek¹o¹ e¹O c pgo n²gv o¹ f¹lc o¹ k^ap{qnev²u t¹g¹to qnev
 t^agt u|c¹mpk c pgo|gtg. jc ¹A¹x³4²u² jcu|pqu xq¹w¹nev c n³4x²ngo²p{
 dg pgo n¹vp^a. jc c pgo|gv c|qnev c| k¹v¹o²p{gn²gv t¹q¹np¹u|gpx²xgn
²u u|gtg¹v²xgn pgo cxcv^a o ci^a2k^a. ucl^avcl^a (00) G²tv l^atqo c|
 qtu^ai qv 0 0 0 jkf gwg o k¹pf gp¹w n²w¹Ar¹q¹rk¹ck v³4gn²ug¹o uq¹uf³pv
 l¹gn¹pv u²i²v⁰ G²tv p{|An¹m i{cmtcp c v¹n¹q|. o^au²u o^au²tx²gn²gn
 o^au²u o^au²dg^an¹v¹u¹cn²u² m¹Ar³4¹ph²rg wcn¹up v³4xg o k¹pf ki wi {cpc|qp
 e²n h¹n¹. c²tv. jqi { c pgo|gv n³4x²ngo²p{ wf¹cv¹dc h¹gn|¹k¹»f¹l²m
 c¹ppcm c pci { n²w¹At^aru gt h¹gn¹v¹upgm c u|¹Am²i g. co gn{pgm²tf gn²/
 dgp pci { ^arf q| cv¹ng¹m¹n²tpgo 0

M¹gd¹gd¹gti xc¹ndcp c rgi pci {qdd ^arf q| cv¹n¹u¹i gn x^anc¹nv gn/
 cf^auqnev. dgu²f g¹ngv u n³4 dgp d^ao w¹cvu v²to²ngp{u²i i gn v¹vc ekm
 ngk⁰ O k¹pf g|gn¹dgp²t²v¹ng¹v¹gwg u¹jc pgo u|¹Ap¹gvn i { lv o w¹pn¹/
 l^apcm gi {/gi { t²u|ng²v⁰ Co k¹pv o ci c ku wcn t^a. pgo gi {u|gt kuo²v¹ng
³4po ci^av o^au²u o^au²dg^an¹v¹u¹cn xk¹i¹v¹xc o gi wi {cpc|v c n²tf²u⁰
 |rrgp g| o w¹vc ci k³ek¹l^apcm gt u i{c¹nt¹rc¹w l¹ngi²v¹c c o ci c
 ki c|u¹i^av xc¹u¹i i cn d¹gn¹nc¹rc^arlc c n³4x²ngo²p{dg⁰ Pg h¹ng¹fl¹Am g⁵0
 jqi { c u²ng²dd t²v¹gi gm o gi p{gt²u²v e²n¹» ci k³ek¹pcm m¹Ar³4¹pr¹gi gu
 u|cd^an¹ck xc¹ppcm¹ pgo tk¹n¹p c| qn{cp r¹w¹ner q¹t¹cn n²gv n²gv jcp/
 i qucddep²u n²gi o gu¹gddtg n pk co kv o^at v³4du¹3⁴ g¹ni¹v¹gn⁰ U c/
 d^an¹n¹pv ^an¹v¹qc hgn c o ci c u^ao^atc. jqi { v²txgk c n³4 jcp¹ w¹v
 n¹ker qi cv¹uc e²n¹d¹»n t¹gp¹u|gt¹kv gn tg d¹l¹gn¹pv⁰ i Mcv¹u|v¹hc w³p.
 o kn¹o²i u¹Av¹vc u¹n²tegu jcp¹ qp n²gd¹gn¹nc¹pkc |k¹cvctdc 0

L>n wfvc. jqi { Igtlej q hcrck ugo f ngm rg c| gnu vqo dksu »tc0
 U d^at o cic pgo ul pv o gi c jctup^av h^lApk o²i ku n^lw²i gk xqncm^k
 o gi vgw/g o kpf gpv. co kv vgi gvgw u co ktg n^l4gng| xg xqmA ËI {cntcp
 i {3/4^l c v^l4^vpgk hngn u²i wfvc. n^lpq| c i qpf qrcv jqi { j c pgo
 rppg gr²i ul wi gu| v^lk gt o ctte. jqi { c n^l4 x²rgo²p{v c mwm^ltc
²tf gn²dgp j q| qw^a rf q| cvqm ul ^lAm²i gu²i²t n o gi i { | go. cmqt
 o kpf gp ki {gng| gvo gmg²tg ku qnc rgu| gm c pgo| gv gmg^lÄj gvgv²
 uqtxc^au^apcn⁰ Uqtxc^auv o qpf qm o gtv o ^l c nevqpc k dwn^lu vci kmu
 nevul v>h^lxcn x²i| fkm cffki c mwm^aru cmw ctc^audcp pkpeugp
 o gi c vci kmu dwn^lu hpu²i g. c| rcuucp. ul kpv² ul t²gx²v²gpÄn euÄu| v²
 c rqux^ap{dc. c| c n>ddtgp² u²i h^lwo ul gt grkuo g²u²dg. c rgo qp/
 f^audc. c dng^l4 f²udg. c p{qo qtdc. c wfcv²pu²idc⁰ C pci { qr^l/
 o kvc. eum cffki qr^lko kvc. co ^l o wpi^lt>n h^l tcf q^au>n gt hgu| ^l/
 v²ut n xcp ul >> c ukngt gr²t²u²pgm pgi²| u²i gk vrcu| vrcv>n pci {qp
 ku l>n wflc⁰ C| ²rgv ngi {gvgp. c l> ul^a pf²nqnev o gi v^lgf grk<
 eum >t^luk gt hgu| ^lugm^a t^ap ngj gv xcrc⁰ k o ctc²cpf>v gr²tp⁰ Fg
 o²i ku. ²rrgp gl²tv ngm vx^addf qri q| pk vx^addci k²rp⁰ C rcp²cu|
 nleuqt^lvn c rmgnd n c| go dgtgm hgn>j clvpcn< ëWco. pgo
 d^llwm vx^add⁰ C pgo| gv o guk^aux^at> j cpi vrcv<^a lwm. uqncp
 xcrc⁰ k euq²cu| gtv n xcrc⁰ k o gpv dc^luco >n x^at^am c ul cdc²w
 r^lu⁰ Mrgdgudgti n²p{vrgp c| km^l k>nev ul² vqu| vcpk u rvd^lku|/
 vnk o wpi^lu²i^a dcp^a mcp²>cp kuo² vni gvp< ëc o k ugdgkntg pkpeu
 dc^luco² u pgo hqi tclwpm ugnk ugo ugi ^lgp⁰ Eum ³po ci wpi²q
 ugi ^lgv²pm² u eum gi { gu^ln⁴| gn ugi ^lgv²pm u gl c| gu^ln⁴ c
 o wpc⁰

J ^lrcrk rtqrci cpf/c/ekmgk uqnu| qt xcn>dcp o ci wmen tei cf> dg/
 ul²fgk n^l4vngv v²ngpgm o gi 0 O kpf gi {km n^l4vgv gi {/gi {^amqo^a u i qp/
 frcv^lk^li^a pcm hgn f²u²dgp⁰ C o kpu| vt rvd^lekvc ku rgw u o kpv c
 ki c| k rgo²dg ngtÄv xqnc⁰ Mgt² euq²c. jqi { cpp{ktc o ci cu| vrc O w/
 uqrlpkv. cnkdgp o gi vci^lnc c| cm^lk^a mco h²thk^a ²u c j ^lrcr^l> rvd^lekvc
 gu⁰ ²p{k ul kpv²| k²v u cnk o kpf n²v hrcfcm²4²v. c| ^amco nqto^ap{^av
 xgl gv gnu o kpu| vt²²v ²u c n^l4 x²rgo²p{v k^ap{^l> | uwtprku| v²v
 v^l4^lrgvugp gn^lvc⁰ G| c| qnc. jqi { c Fweg tgh²to lck c rrc^lkt>n c
 xc>u²i dc rpfÄrgm^a v o gtv pgo c rjo jg dÄqntcvknu errct^awu
 n²p{ul gr^lk t^a ngv c| ²ngvg. jcpgo c vrcu². jgn²gun gpi gf gr²gu²i
 c x²i tgj cl²u ukngt²pgm ngi h dd d^lqv^lne⁰ Mrgdgudgti ku c n^l4 x²rg/
 o²p{v cnetv ekmgkxgn o cic ²u cmq²uck o³4² uqtcnq| vcp⁰ Pgo ku
 vknqrlc. jqi { c rvd^lekul vnk ul^a o^atc h ngi c o kpu| vt k jv²un^l4
 ëo gi jqu| cdd^lu²i. nk²i ^luc. c j kxevn nqtn²vcp o gu²l g vÄro gp ngi 0
 ëO kpf ki kki {rgo. ô ^llc ô c| qnev c ekmf^l> v²tucko cv cnkm ngm

o i qpfqv u|gpvj gvgm o wpm lwnpcm cnkpgm kfglĀm xcp ettc. jqi { ekmgkngv ngtgnfi gu²m eukl qni cu² n0 C | ²p ekmgko jkxcvru o wpm o pcm o gn² mgto ²ngk= Āi { l³ppgm r²tg. jqi { co knqt gi {/gi { Āi {eurqtvcn hqi rcmq| qo. cppcm gn n² u| ²² ugn²r qrkcupqo ngm o gi p² | go c jgn| u| ²² v. r² vqm xk²² ngnv ²u x² tquqncv. o gi kuo gtgm go dgtgnv jkxcvru ²u v² tucfcm k xgl gv ngv u o kn²⁴ dgp o cic c h fqi n²rcnmn c eugrnx² u grk ²u i {cnqtrevk kpf ²² nckd»n nkuctcf/ pcm c u| go rqpvm d²² r²vm nqt² ddk ²merqvmmen ²u gr²² uqmmen u| go dgp. o gi i { | f² u² ut u²⁴ pgm u| ² u| »tvc u| gt| gw crt» vrcu| / vrcvm o gn(gm n Āi { jku| go. pgo ²tv c pgo | gvg v² l² nq| vcpk0 V³⁴x² p{lcxcuvc| q| c o kpkv| vt kpf qm² uv nrc euqn ²p o kpgi { vgwlo pgm kpf qm² ucn² rrgp ²² qo o gi ekmgko gv uclpqu. o i qpf p² mĀn crki gi { l² n² v xqpxc gn jkxcvru vgx² npp{u² i go v n² C ekm/ ngnpgm v²⁴ vpgk hqt² u² v² n² v ²rrgp gl c n²⁴ xgvpu² i cflc0 C lgrgp o wpm dcp ku c rgi h dd hqt² u Mrgdndgti ktqfcm k o n²⁴² ug0 Ekmgk o kpgi { hqn{co cvqu nqo o gp² tv p{Āvpcm cmq² uclj q| 0 Rqpvcup o gi jcv² tq| v c o cic j² rrc ²² k vgx² npp{u² i² pgm xku qp{² v c rtq/ hgu| kpkv² m o n²⁴² u² j gl ku0 C o kpkv| vt gl gmgn u| go dgp gn p{dgp ²u j² v² p{dcp xcp0 Gn p{dgp. o gtv u| cxc uĀn qucdd= j² v² p{dcp. o gtv pgnk vmpvgwn ngm nppkg qn{cp u| go rqpvmc ku. co gn(gm c rtqhuu| kpkv² v pgo hgu| ²n{gl kn0 Gj jgl l² tvn o² i. jqi { c o kpkv| vt r wdreku| vnk vgx² npp{u² i g eum o gn² mgto ²m c rtqhuu| kpkvc o gi gddgp vcn² c o gi ²rgj kcv² u² v0 Fghk² n² c mcvu| kmu r wdrekuv hqi cm² v ku0 C fghk² k»d»n nkfgĀn jqi { wrcf qpn² rrgp c o cic gr² ² n² qv gu| o² p{v n²⁴ xqpcrc| v0 G| v c| gpgxgl² uv u| gkpv c| ²tf go rk o gi. cnk c pgo | gk ²rgv uqtuf³pv r² p{gi² v c| cfqw jgn{ gvdgp o gi / tci cfxc xk² i qucp r² v c nkv | ³⁴ v e² m. c| qfc xgl gv wcv u| gv o gi ku wflc pgo | g² pgm o wcvp0 X² i u gtf o² p{dgp c r wdreku| vnc vmmen | ³⁴ v i {cnqtrevk rqrknc u r² p{gi² dgp cpp{kv ²t. co gpp{k c v rg u| qni² n rqrknc gu| o² p{ dgm ²² v² ng0 ²² { r² v c gl v o² t kicdd nqt² dcp ku0

C v rg u| qni² n m² r² rqrknc c| qpdcppcm gngp² tg. jqi { o cic r² v² j q| vctq| qw u cppcm ngtg² dgp rt»d² nc c| cmq² u| j q| u| Ām² i gu jcvcm cv dktvmm² ²u ngl gpk o gu| g² mv c o kpgppcr k ²² vrgo dgp xgw r² tv rqrknc »n0 Co knqt m² wu| o kpkv| vt k u² n² v grhi mnc. p{ k/ x² pqucp nk² gl² v² tqul cn² v² c r² tv rqrknc vq| ucmq² uqmmen u| go / dgp0 O kpv dgnĀi { o kpkv| vt gn | rgi kn{pgm n²⁴² r² rqp² dcp² mv u ettc c o gi i { | f² utg lwqw. jqi { gi { qn{cp uĀn{qu jgn{ gvdgp r² x pgo | gv pgm o kpv co kn{gpdgp cmqt c o ci {ct xqm wrcf qpn² rrgp pgo ku u| cdcf pc r² tvqntc u| cn² fplc0 ěC r² tv rqrknc jcteqm o² n² u² i² dgp

Āf v dd rēxgi tg x^ai{co. hgn o cicuccdd rīi nī4dg u gl v jqn vrf n' jcp^a o o gi o^aujqn o kpv c o ci {ct mwn^ātc vūl vwnccdd rīi nī4²dgpA Gddg nī^apnūj wo xkuū cū M²v²i vrgp. jqi { cm^āk o kpkū vt r²tg. co gpp{kg eucm ngj gvgw. v²xqn o cctcfv c u lqtqucdd ²tvrgo dgp xgw r^atv²qrkknī²»rū Gppgm qnī v o ci c nī^hl vgw< gn ul 3/4 pgo ²t kn{gu/ o kg t^a. o^auqf ul qt ô u gl c hqpvqucddô c l w²p x^ai{>>fkm jqi { ëc o ci {ct o xgn f²u ul gpv Āi {²v h²4²dg go grlg c perk rqrkknē gmgp²v²gk/ pgnū p²g c ëm²uū kmūi rwdreku² o²n²» e²m²k v |²ug< nī4 x²rgo ²p{v cnet vtgo v²pk co k pgo c l qpqu c r^atv²qrkknē ul go rqpqm ²tx²p{gu/ v²u²xgnū G |²tv ul gtgk ²u x^atlc c ntkknī v. fg eucm c l v. co gnū km pgo dqp. jcpgo ²r²v. pgo eucm nī^hqī^auqn jcpgo c l v ku o gi o qplc. jqi { c nī^hqī^auqn jgn²dg o kv ul gtgvp^a nī^hcpkū Cnk eucm nī²vgn²ngv ngn. euĀi i gu l v. gm²g²xgvp²v ul >>xcn c o gff. c ëp²gi c²vī go dgt. c jkr gt/ ntkkmū. c l c nī²nī²v²nūp{cdd go dgt/hclv. cnī²pgm^at²» ul^apf²nēk eucm c ëtqduū wu cmū²v²uk ngf xī w²lc nī { t²pkū Pgnk c rql k²k t²ul xqrv c hqpvqucdd. c pgo | gv nī4 ul gn²o²pgm ²u ²t | grgo xkī^apcm qn{cp dghq^auqī^auc. co gnū gn ugi k² c l cmū²v²uū G | c nī4 ul gn²o² ²u ²t | grgo / xkī^a c flc c rtqi tco o qm vctcm^av ²u gtgl²vū P^an²pm r²g²ki uqmul qt j²k p{ l km c vcpuo kulk. c l gt^av²kg² ëc j c l chku ²t |²ugm ²u c j c l c ²tf gn²dgp xcn² eugrnx²u nī4 3/4ū C i qpf qmū^au²u c l ²t | grgo xkī^a nī4 rqpvc c l ci { . c eugrnx²utg h nī c net jkxcv²w= c l ci { ²u net nī4 3/4v r²g²ki c l k²pi gtv c l k²gi ul^arcm nī4 xg²vī knū P^an²pm tgpfdgp xcp c l ci { ²u gt u c net. eucm ²rrgp c pgo | gv k²gi gnūdp xcp c dclū Uqm gūgdgp c l gn²v²tq |^au²n² pgo w²v²pm xc²z²qi {cp grlwpk c eugrnx²ūi Ū C nī²rgu dgu²f gm²p²tg xkī^aiqu. jqi { Mg²dgnūdti rwdrekuū vknē o nī4²ug c l kn{gp ²tvrgo dgp xcn² gt^av²kg² nī^ha²pc d²l vū²cpkū G |²tv 3/4Āv cpp{ktc. jc v²to²ngp{ xk²v ukn²Āv r²txqmī²pkū Xkuū qpv gnū qo qtqf km jc jcpilc c r²wū²v²dcp nī^hn²» o cctcfvū Pgo cnetv. jqi { c mwn^ātc Āi {²v eucm gi {o ci c nī²rxkūgrlg. pgo cnetv c nī²ul cvq² gn²cvcm cuqf pk gpi g²pk o k²vj c ëgi {gv²gp go dgt t²3/4 gu / o²l²t n rppg ul >>. cnk d²v²gi gu eu²3/4n²3/4²u²i i gn p{cti cn gi { mwn^ā/ rqrkknē i qpf qrv xguū rctk^al^apiū M²jo qn. ul p²xqpc²u xkē w²p^a j²ī²q² qw co gn² nī4²rgk r²td²r²o^a k²nev^av ²u^aul²3/4k vrf n² ul qp/ f²qrvqmerū J²ī²rc²ī²»k o nī4²u²xgn w²cl²qpn²r²rgp c l gi²ul pgo / |gv² o w²nev²t²x^a ul gtg²v xqpc vppk jqi { o k²plc. co kv r²vtg/ jql pk ukn²Ān gi {Āvcn c nūngm²k o ci {ct cmū²gt o gi p{krvū²uc ku nī {gpū Gttg ul Ām²i Ām xcp c l cmū²v²uqnp²cm kū Ogtv ëc | cmū²v²u n²l f²gdgp i {gpi g r²cn²pv= jqi { o gi gtgf lgp. ngf xgl k²l^at^au ul Ām²i guū C rqrkknē n²l fgo ²p | g²ug²np²n c ngf xgl k²l^at^au c pgo / |gvknī4 j gnū²ul gr²vū Ū

p{gl gw co gn{pgm e²nc wi {cpc| xqmw o kp v fkr mo^a ek^a pn^a < u|²v
 v⁴pk c xtkpapk dkkpeugngv0 C ngi lqdd o gi i { |²upgm c| g²gf o²p{gm
 dgo wcv^a u^v vctvqc0 C dgo wcv^a u h⁴pqo fkr mo^a ekek o wpril^a v
 m⁴Ar⁴f k xci { m⁴Ar⁴f l⁴gm u^a o^atc vctvqw j c| ck gn cf^a uckdcp uqmul qt
 o ci c x^a m⁴nc0 D^a o wcvqu o > fqp. c u| ⁴Angv gw fkr mo^a cvc ³u| ⁴v⁴u
 2t|²n⁴xgn wfv^c nkx^a n⁴u| vcpk gn cf^a uckpcm v⁴ti^a v cp{ci^a v h⁴to ck
 gng^o glv ⁴Äi { . jqi { c| ²tf gm f²uv dkk vqf⁴uc0 Gi {/gi { k⁴gp dgu²f g
 tgo gng xqmw c m⁴w^ar⁴ku ²u r qrk⁴nek r tqr ci cp^a pcn0 M⁴Ar⁴f k r tqr c/
 i cp^a l^a xcn c| v c| g⁴n⁴reuk v n⁴v u| g²gw xqpc xkuu| cu| g²pk pgo /
 | gv⁴pnpgm co kv c⁴ppcm k⁴gl² p c u| cdcf^a i jcte ²u c o ci {ct go ki^a ek
 u| g² gw co kv c| qdcp c n⁴gi {g²u n⁴t^a pcm pgo | g²ng pgo wfv⁴ gw
 o gi vctvpl0 K⁴j qp ku. m⁴Ar⁴f ³p ku gi { xqmw c e² n⁴ äCnft c dgt⁴pk
 xci { t>o ck gi {g²gw cv⁴ l^a dcp. cnft c ngeungo² k xci { u| gi g² k
 vcp^a n⁴pp dgu² ngo . o k⁴gp ⁴Äw c o ci {ct o xgm² i o gi o gp² u² v
²u h⁴nk^a i q| cv^a u^v ki {gng| vgo gt o j³4 n⁴r guv u| qri^a rpk u c| qp v⁴n
 c o ci {ct ⁴Äi {gv00

C jcto kpecu ²xgm n⁴4 g²gf² xgn ô nd0 u|^a | ²xxgn c| w⁴p. jqi {
 U|²ej gp{k c o ci c ci k^a ek^a l^a v o gi ng| fvg ô M⁴gdgndgti m⁴w^ar⁴ku
 r tqr ci cp^a l^c j cv⁴ cu pgo | gv⁴pxg² uk r tqi tco^a u| ²ng² gw nk0
 C pgqpc⁴qpcrk⁴ o wu u| cncu^a dc ²tv⁴pn0 Vgto² u| gv⁴u g²gf o² p{ gl
 gi { qn{cp l⁴tk⁴p^a n cnk o gi i { | f²u⁴gn j k⁴fgw. jqi { o k⁴gp v⁴4 gm⁴
 x²upgm jcto q⁴kmucp gi {gu⁴Ap⁴g ngm c o ci cu⁴dd ²u o k⁴gp v^a v⁴qi »
 pgo | gw i q⁴f q⁴rcv⁴ cpi0 M⁴gdgndgti gi {h⁴to c dkk vq⁴u^a i i cn c o ci c
 jgn² p xqmw j c c nku u| k⁴ r » o^a nev o gi h⁴ki {g⁴pk xci { c| q⁴nev pci {/
 xqpcn⁴cp ²tv⁴ng² g| pk ngngv0 U| go g c o k⁴tq⁴u| o qu| dcp ku o gi n⁴wc
 c o cntq⁴u| o qu| v⁴4 x² p{u| g² u² i gk0 C ZKZ0 u|0 v⁴4 gi l⁴gr⁴u² i gk
 h⁴ki {g⁴gk t^a l⁴4v cttc. jqi { c pci { f⁴q⁴i qm n⁴ekup{gnd n tcm⁴fpcm " uul g.
 o kp v c⁴qi {cp c n⁴t^a n⁴u| ki gv ku uqno k⁴rk^a tf nku ^anev v⁴geun⁴ l² d n
 c⁴cmw0 M⁴w^ar⁴ qrk⁴nek o n⁴4² u² pgm nkugdd/pci {qdd o q| cpcvkd>n
 ¶i { v⁴g f³4v n⁴ucpn⁴kp v ³4u| g c| c pgo | gv⁴pxg² uk tgp⁴ u| gt. co gn| j| g|
 j cuq⁴pn^v cddcp c| k⁴ dgp m⁴Ar⁴f ³p ku eucm c| gi {gv⁴gp h⁴cekuc o q| /
 i cm⁴o wfv⁴ gw h⁴no wcvpl0 O ci c j k⁴fgw. jqi { c o xgn f² u c| go dgtk
²ngv o k⁴gp o gi p{ k⁴ p^a w⁴ u^a dc dngul ³4 k f⁴km u c⁴ppcm cnk k⁴uq⁴rc qk/
 v⁴n⁴ v m⁴w^ar⁴ qrk⁴ v euk^a n u| kp⁴g ngj gv⁴gp² i o gi o c⁴tf pk c| k⁴uq⁴rc.
 xci { c u| qt⁴qu⁴dd ²tv⁴ng²o dgp xgw m⁴w^arc j c⁴v tclp dgn⁴Ä0 O k⁴gp o k⁴p/
 f⁴gp⁴gn ³4u| gh⁴Äi # M⁴Ar⁴ ³4u⁴gp p^anc. cnk dgp. o kp v gi {k⁴m l⁴gr⁴u h⁴ku| » h⁴w⁴wpm
 t^a o wcv⁴w tgp⁴ u| g⁴cm⁴u » h⁴ku| » h⁴wu xgu gw gn o g⁴v m⁴Ar⁴ p⁴ri gu n⁴r gu/
 u² i g xqmw c⁴jj q|. jqi { c ngi u| k^a tx^a p{qu⁴dd uq⁴n⁴ r⁴gu² i gv ku o ci cu⁴dd
 gi {u² i dg h⁴q⁴ r⁴nc0 | ng² v⁴ pgm pci { u| g⁴tm g. c m⁴w^arc. x² i g²gf o² p{ dgp
 c| c| c⁴tej k⁴o g⁴guk r qpv ngw u^a o^a tc. co gn{gp n⁴ d^a v o gi xgwg c

o ci {ct xkfi qv t²ik uctnkd} n nktqf fcpk rt} d^anc. fg pgo xcrc o k
 euqf^ancvu hqtctcmqo o cn jcpgo c o Ånd} n ngu|tf vcpwufiqm
 d³4eu² t²v²ngu² u²xgfo C mwnÅtrqkknk ku eucm gu|n⁴ xqnc < x²i e²n
 c pgo|gv Ål^au|Ångv²ug ngw0 O lpf gp v⁴gmk²ug c pgo|gk 2t|²u gt u²/
 v²u²dgp. All^a hqto^a n^a u^a dep vci^anc o gi x²i u² t²v²gm²v0

Tgpf n²kÅk gt v wrcf qp²v c pgo|gk 2t|²upgm0 G|gp c rqpvp
 pløeu cmw# U n²Å³p³gpp cmqt x^ark n gn xcp/g gi { pgo|gvdgp ki c|k
 2²ngv²r gu²i. jc nvcu|v} h^adc ngtÅ0 C dgm n²i nqtjcfv p²r gm c
 u|gtgpeu² vepu²i uÅnc crw 3⁴u|gtqr c ppcm jkÅngv xgu|v m jkc/
 v²uwn} n vj^av l³k lÅnt n rgo qpf cpm co lpgm n²k gvn²o²p {g c
 dgo n²u² hgnq| n²u0 G|gn u|go dgp ëc| 2²ngv²r gu pgo|gvmtg c nvcu|
 v} h^a Å { jcv. o l²vj c xku|cx^ail^am c l^av0 Cpp^an gt ugddgp jclv0
 C pcekpcrk o wu c p²r gm 2²ngv²u|v²pg0 C o ci {ctdcp o l²pf ki gt u xqnc
 c pgo|gk 2t|²u. m²Å³p³gpp c u|gtgpeu² vgp hqt^awcqm 2²xgk dgp0 O kgn
 rgf ki u|lv²g^ancpf} cp xqncm delc²pm pgo|gk 2t|²u Å²pm gtglg Gw}/
 r^adcp n²4 o qpf^auqu^a x^anj cvw0 Xcnc knqt gppgm c m²Å³p³dgp cp {/
 p {kc jvcnc cu gt v lgrpv 2t|²upgm o gi xqnc c| c i {gpi²lg. jqi {
 u^ao u|gt n²i eucm u|ngdd t²v²igt. c|gn w c pgo gu²itg. o clf n²u dd
 c| 2²v²gm k²itg 2²u c xci {qpquedd t²v²igtg nqt^avq|} fqw0 C o knppk/
 wo k Åppgr u²ig m cmem^axcn o²i c f²u|o ci {ctqu hgnqpw^auqm u|ko/
 dqk^a n^am c o ci {ct pcekpcrk o wu0 C| Å o ci {ct pgo|gk 2t|²uv
 c| qdcp uqncn u|²ngudd crqntc ngm^a n²k cpk < c n²i u|²ngudd
 p²r k t²v²ig m 2t|gm k xkfi^atc k# ë0c pgo Åppgr u²ig mgn jcpgo
 eucm c u|qek^aru rqrkkn^apcm c mwnÅtrqkkn^apcm c| cm} p²r qu^av n²/
 2²tf gngv u|qi^an^a n²4 i c fcu^aik rqrkkn^apcm c p²r dcv nqt o^ap|cv
 pem 2²u c j c| ch^au^aipem 3⁴u|ghq^au^axcn i {^atj cvwm o gi c|v c jvcnc cu
 n²4gr ngv co gn. o l²v c huc^anc jko pwu| ku o qpf l. c j c| c h²4f²j g|
 t²4| f²kc j c| c u| Å²4vgk. c j c| ch^ancv0

Xkfi qu gdd n jqi { Mg²dgn dgti c o ci {ct j c| ch^ak Åk 2t|²upgm c|
 c f f ki k^an o qf gtpgdd vctvcnc v n²k^apv cf pl0 C pgo|gvv gr^ai gt upgm
 vctvc c j j q|. jqi { c rt} d^av o gi^amlc0 C| 3⁴u|ggo n²u w²p xki cu|vc/
 n²f qw n²ngmgn^ancr f²qvc o gi. jqi { c pgo|gk 2t|²u 2²ru²idgp vÅ²ng
 c|^a mco 3⁴u|ggo n²u v co k dgp vci^ap c ppcm ku t²u|g xqnc jqi { c
 o qpctej²j q| xcn} vctv^au n²k gvn² v²dgp c|^a mco 2²u c pgo|gv
 hqi cm c pgo guvgm vgr^agu o²t²v²ndgp 3⁴u|g0 C o ci {ctu^ai pci { t²u|g
 dk cm cvcp xqnc c o qpctej²xen u v c|^a mco o cn u|go dgp. qn^acpp {kc.
 jqi { c o ci {ct o²i c| kunq^aidcp ugo u|gtgv c|^a mco k0 C u|qn^avp^an
 n²4 dd n²rcuq^ancv gmgp²tg o²i ku pci { o gi^a| n²f cv^auv lgrpv^aw c
 o qpctej²kc 2²u c|^a mco k cr r ct^awu 3⁴u|ggo n²uc0 C pgo|gv Ålc o gtf gm
 u|knc^apcm xgl gv^aw. co gn^av n lqddt/crctc u| 3⁴p { o²n²u²i cvq/

i qv0 C| kf ugdd nqtqu^vn{qm kf gi gk hgm qpf^vm c u| qni^arcqv. n^v
 u²i dggv^um u c hcvrcdd pgo|gf²ngv ku gn^avqvcrcp^vq^vn0 O^at r gfk i
 ëo kpf gp d³æug²i eu flg. jc c| kf ugdd pgo|gf²m c| klccddpcm pgo
 wf o^au vcp^aeuqv cf pk o kpv c n^vw²i dgg²u⁰ | rrgp c| gm²pn²l tg
 xcp u| ãm²i < n²l fgo²p{gl gt tg. vgw²gn²u²i tg. gn²u²i pv²i tc0
 C xk²i j^a dqt Ædcp gm²t| gw. c hqtcf cm cm»n vx^add i {gpi²lgw.
 gl gph²ãn o²i o gi euqpn²l qv qtu^ai eucm ¶ { wf hrgo gm²pk0 Vgt/
 o²u²l gv²u c| qpdc. jqi { o ci^atc jci {cxc c tqo qm Alt²r²u²v eucm
 Æ { tgo²ij gw jc c jgn²l gvgm o gi hrgn ¾^am» pgo|gvk e²qnev wf0
 nkto^apk0 C t²ik 2²u. c| ¾³¾³m o ci {ct pcekpcrk²o wu gr² vj^av
 Æ e²qnevngm v| pk0

Gttv cpp^an kpn²dd u| ãm²i xcp. ogtv c t²ik o ci {ct pcekpcrk²/
 o wu n²i hdd vcvr^av g²xg²l vgw c| cn jqi { c D²eu gm²pk n²l frgo
 o gi u| p0 C| Æ e²n pgo n²gv ngxugdd 2^u v²dd. o kpv c t²ik jcv²tqm
 xku²l c^a n²l^a uc0 C| qf^aki xgl gv Æv c| qpdc jqu² Æ 2^u pg²l n²u². fg
 Mrgdgn²dgti dk²q²qtc xg²l c x²i u ukng²0 C o ci {ctu²i gttg ku
 n²rgu n²u². eucm pci {qp ngm cnetpk# C pgo|gv gi 2^u 2²pgm gt^a ncrqc`
 gtn²æuk gtglg pgo tqu²0 Vtkcpq n²u²lv²ck pgo x²vng²vgm cpp²l².
 o kpv r²0 c Oqj^aeu²tv hrgn u pgo|gf²n0 Dg c| 2²tv uqm o kpf gppgm ngm
 o gi x^a n²l pk h n²i o gi Æj qf pk^a vcrmw²pk0 Ngeu²mgpv² vgt Ærgv.
 u^ao dcp o gi h²i {xc. gn²l gi 2²p{gf xg qn²cp pci { hrcfcv² o kpv c v²4/
 v²pgk jcv²tqm xku²l cu²l gt²ug. eucm c| gugvdp wf vpm o gi qif cpk jc
 c t²i k hclvc jcl ch²u²i qv c hrcfcv pci {u²i a jql o 2²vgp^a v²qto^a rlvn0
 Mrgdgn²dgti j^atqo h²ng jcl ch²u²i qv m²ã²pd²¾²gv o gi < c u| »pqm»v.
 c ngugi v 2^u c| cm²u²»0 C n²v gnu xgn pgo wf o kv n²l fgp²0 Eucm c
 jcto cf km hcl²xen dqr²qi vj cw²pn0 O kpf gp qr²ko k²o wuc o gngw ku
 o gi xcp ctt»n i | f xg. jqi { ëo²i gi { rqrk²ck dcn²r²u 2^u c x²i | gv
 nk²¾³¾³n dgpp²ãngv c| ¾³¾³m» pgo|vgm uq^ad»n²l M²l²trvg²pk pgo
 n²gv0 f v ngm c²mw²wp²nc c o gpp²{k²i gv o k²u²i i gn ngm r»v²pw²pm
 hclw²pm gj²ck dg²r²t²n²v c n²i o ci cucdd hqntc ngm hrgo g²p²ãn0
 ëC o ci {ct pcekpcrk² o wupcm o w²n²v. o xngv. cm²u²uqnev ngm
 n²¾³gv²plg< c o ci {ct pgo|gv u| gpv 2^u ¾³¾³m gr²lgi { 2²u²v c o ci {ct
 h²ã²fgn c o w²nc. c o xgm c| cm²u²uqm t²x²p0 M²ã²pdcp c xk²i /
 v²4²pggo n²¾³¾³vg² n²l g o kpv 2²v²mg²rp i c v. o kpv f wf x^av
 i {qo i²n nk dgpp²ãngv M²4²r/Gw»r^apcm cddn c ngtv²ã²l²d n
 co gn²gv I qpf xk²u²l u²l k²qo ngt²kmw²ã²mu^a o^atc lgr²ã²nk0

C n²i h²pv²uccd. co kv Mrgdgn²dgti c o ci c m²w²ã²rqrk²l^axen
 c| Æu²l gt o ci {ct jcl ch²u²i tgp²gm²l²u²tg n²l^apv d²eu²vcpk c| Æ
 o ci {ct go dgt/v²rw xqn0 D^at c pgo|gv gi 2^u 2²xgn o gi xq²v gr²i gf xg.
 o 2²i ku Æ { v²nc. jqi { o 2²i o k²l²ki uqm n²¾³¾³ã²pm ëc vã²u²i qucp

u²o^am». gt²n{vgrp. dgrv⁴f . i{qtucp dwlfw». n³pp{gp ncpnf». v⁴n¹i qucp xgi go gpu. ki c|k pci { u|gpxgf²n{. ki c|k ngpf⁴Argv²u ki c|k gt²n{i p²m⁴Ark go dgt0 C| Ā V¹uo gi vtgo v²u²jgl pgo vctvc gngi gp/ f pgm c| kunqr o wpn¹l^av ugi v¹u²i Ān j¹klc c| cp{^anev. c ngm¹u|gngv. c uclwv. jqi { ugi v¹u²m o gi vtgo vpk c|v c| cvo qu l²t^av. co k c| kunqr o wpn¹l^av jcv³uqucdd^a vgi gw0 C| Ā go dgt c U²ejgp{k^am qfvc rtq/ fwm¹k o ci {ct. cnkpgm xppcm gu⁰o²p{gk fg pkpeugpgm km⁴k⁰ C rtqfwm¹k go dgt n j²k p{| km c jkr gtntkkn. c eugrnx²uv jcx^ap{tc dvgi v¹ v²rgn f²u< grgo g c vgw0 C pgqpcckpck o wu e³pwf cvqu³u|ghqⁱa u c ntkkn v⁴ngpi²ugkgn c jkr gtntkknxcn²u^anci¹dcp c pgi cv¹k go dgtgmgn u|go dgi0 Gu⁰o²p{g c o wpn¹u jci u|gtgvgv. co gn{²rr Ā { u|go dgu^am c lqi quwrcvp³a⁰o¹uucn c pck qrv¹ o k o wuon o kv co gpp{k^g pgo gpi gfk o gi c nkj kv gnpgm c dci/ l>uqncm c n³u²i dgu²u crquvrcpkm r¹ngntqo dqi¹u⁰ Qn{cp go dg/ tngt xcp u| Ām²ig c jcl^apcm cnkm jclmp}»m cni¹t c x²i|gwgn u|go/ dgp ku h¹rxgppk c jcteq0 U gl gm c eugrnx²u o gi u^amqvck0 C| Ā pgo/ |gf²m cnetcvgtg²v c eugrnx²utg xcn» n³u²i lgi {²dgp o gi ngm jcx^ap{q|pk²u gppgm c h¹rhq|qw cnetcvgt pgm g²dg qfc ngm kmu|/ vpk c pci {qdd wf^au. c| gt ugdd hgm¹u| Ām²i u gi {dgp c ngi jcv²nu/ p{cdd n³grgu²i vrgu¹u i {²o^aph⁴»l^au

C n³grgu²i vrgu¹u pci {qp r¹p{gi gu rqpvc c pgqpcckpck k¹gq¹i k¹pcn0 Mrgdngdti v⁴adu³ go ngi gk jqi { c o ci {ct. c lqi^au/ pgo |gv jcuq¹cvrcpwn pci {qdd gpgti k¹xcn u|qmc go ngi gpk lqi ck o kv n³grgu²i gk0 Gppgm o gi ngm x^anu|pk< c vlcqpk o ci {ctu¹i eum cniqt²ij gv jc c u⁴n{rqpqv c lqi t>n c n³grgu²itg vgu k^au C nku »x»p v n ng|fxg c| gi {gvgo k vcp^atki c| gi²u|qmc» u|go²n|gppgm n³grgu²i²x² vgu k jqi { gl v c u|go rqpqv p¹xgn o wpn¹u¹i wncp c ngi vrgugdd o²t²ndgp²tx²p{gu¹u²n0 K¹gp²tv¹m n³grxgrv kv²|gw c| qtu^ai³u|gu qmcw¹q|q|. co gn{dgp³u|ghqⁱ/ rnc gi²u| pgo |gppxgn tgp¹u|gt²pgmh dd i qf qrvck0

Fg pgo gr¹i c vgwgt . c eugrnx²utg xcn» n³u²i. c o gff ntkk/ n¹wⁿxcn» vctw|nq^au< v²txu|gt u²itg ku u| Ām²i xcp0 T^ao wcvwpm o^at ctc. o kn{gp pci { jgn¹gv hq¹cn gn c v²txu|gt u²itg v⁴gmx²u Mrgdngdti i qf qrvck¹i^adcp²u eugrnx²uk rqi tco o¹dcp0 Pci {qp l>n wfvc. jqi { c o ci {ct c| qtu| r¹pw¹uqm c jwu^atdtcx⁴atqm pgo/ |gv. xku|qpv c nuu⁴ u|k>u. n³kgvng¹gvu o wpn¹tc xcn» n³u²i pgo c ngi gt ugdd qf cnc0 Mrgdngdti pgm u|kv¹g H¹k k¹ h¹lfcm cv qnq|qw o kpf gp v²txu|gt vgp²i0 Co knqt r¹vc. jqi { c u|gppf tk xcu⁴v v⁴u²pgm n³r¹u²v hq¹vcw¹m fg c xqpcn o gi jqu|cdd¹uc gm ctfv. n³gf²n{g gndqwn c| egurtkv fg uwkgi j²k p{c o kv0 N^au|»ri^ao cwi.

d^a p^lq^m c hcl^ki n^lf²u²xgn o kv ng|flgp gl|gn c lgn|»xcn c o ctqnp{k
o ci {ct^ui. co gn| dgrg xcp ²nrgk c igto^ap. u^lr^x ²u tqo^ap grgo gm
n^l4²A Fg jc hcl^k ^an^lurpvtc jgn|glngf²pm cnuqt. jqi { eucm c jgi {/
eu^leuqnt»n dgu²rlgm dcl ngppg c \ t^lp {lgmgn L^l|ugh p^afqtten Rgv h^kxgn
Fco lclej/eucn Gtngmgn Owpn^leu{xcn Ugo o gny gluu|gn ²u cpp{k
o^au^{en} r^llqddlcpm n^l4^{3/4}w. cnkm p²m^l c o ci {ct j c|c pci {u^li^av ²u
o xgn f²u²v gn ugo r^lgv n^lr|gnp^l J c hcl^k ^an^lurpvtc jgn|glngf/
p²pm c v^lo kn^l o ci {ctd»n ki gp lgnp²ngp{ u^l^ao qv rg ngnpg ^lAp^l
G|gn u|go dgp c rqrk^lkn^l qn^lu^li c|v n^lx^aplc. jqi { o ci {ctpcm vgnp /
u^lpm gddgp c|qtu^l^ai dcp o kpf gpn^lcnk xgn^lpm ²t|grgo dgp. r^lgn^l²i dgp
²u p{gnkdgp v^lrgu² ²u hppv²u p²m^l ^{3/4}ul gqrcf^l Pgo v^lkn^lnc.
u v c pwo gtwu erc^lwuu ^ll²xgn n^ler^leu^lrcv^l v^lldu^l ^{3/4} go r^lgv gw.
jqi { c|cp^lu^l go k^lo wuv r^lp{gi²dgp ^lepgi c^lx rqrk^lkn^l gr^l|pgm
vgnp^l

Jcuqpn^l o »fqp xlugmgfw r^lo c| ^ll⁰ p⁰ wt^apk^l o wu n^lf²u²dgp
ku⁰ C wt^apk^l o wuq^l c| ^ll⁰ p⁰ nrg^lvk qtkp²v^lek^ltc xcn^l v^l4gn^l²uv ²tv^lwg⁰
C| ^an^luhqi r^lu^l ²t|gr^l k i {^{3/4}ng²v o²i jgn|gugpk wf^lvc xqrc< Gw>^lrc
ki c|u^li v^lrcp xq^lw xgn^lpm o gi r^lgv v^lg^l^av ²tv^lpk jqi { c pci { j^ar^lv
r^lu^l²i ²u ki c|u^li v^lrcp^l²i n^lw^ltc cnc^lv^lcm qn^lcpqm cnkm Gw>^lr^apcm
o k^lv^li { j^avcv h^ltf^lx^lc nrg^lvg p²|pgn⁰ C^lr^l^adcp x²xg c wtcp^l/
o wuv o²i ku n^lf²tel²p{pgm v^ltv^lwc< gr²itg pgo o gj gv^lpm xlu^lc
ugo Ngd²f^ldc. ugo c| Gv^lm^l4 dg⁰ Co k^lvc U|gpv K^lv^l^ap ²u cpp{k
pci { o ci {ct o^at x^arcu^lqv p^lm^lpm ugo r^lgv o^au x^arcu^l v^luwp^lnc
^ll²dc. ^ar^lq^lwp^lm ngm c n^ler^leu^lrcv^lnc c j^ar^lv^lrcp p{wi cwen v^lv n^l
v^lrc^lki g^lvt²g^lng^lpm ngm ngpp^lpm o gtv j^lku gp Gw>^lrc n^l4 gr² p²n^lpm⁰
f^lnc^ldcp o kv n ugo ngm k^ln^ldd »xcn^lq^lfw^lpm o k^lv c h^lpcu^lkn^l/
o qm^ln o gtv ^ll^lku pci { jcl^lco xcp dgpp^lpm jqi { c| ²rgv pci {
t^lgn^l²uckv hgn pgo kuo gtxg rqrk^lkn^l r^li x^atcnev ²r^lu^lpm⁰ C o ci {ct
t^lg^arrqrk^lnc u|go r^lq^lv^ad»n c wtcp^l o wuv^ln l^lh^lto^ap ugo o kv ugo
x^arcu^l Fg gl pgo cnc^lf^an^lq^lvc o gi c v^l4^{3/4}m ²u lcr^ap u|k^lr^av^lm jgn|gu/
r^lu²dgp⁰ C h^lpp/wi q^lt qn^lq^l p²rgmgn xcn^l n^lw^l^aru n^ler^leu^lrcv^l r^lgf^lki
²r^lrgp ²r^lg^lwg n^lkc r^lgi pci {qdd u|gt^lgv^lgn²u o gi ²t^lv^lu^lgr⁰

O k^lpf^lgdd n g^lrgxg n^l4gv^lkm jqi { M^lgd^lgd^lgti p²rk rqrk^lkn^l^l/
d»n v^lrgu² j^ll^lp{|km c hcl^k i q^lpf^lrcv. o²i jc c| c wt^apk^l o wu n^l4²
u²dg ^{3/4}^{3/4}ku⁰ P^anc c p²rk ²u c pgo/gk h^lp>f^lkm ^{3/4}ul g c r^lgi u|qtqucd/
dcp⁰ G^lv c r^lq^lv^l ²tfgo gu r^lu^l. o k^lv r^lvd^lrc^lku^lkn^l o n^l4²u²pgm
gi {km xgl²to q^lkw^av u o k^lv c pg^lpc^lq^lpc^l o wu c^lrc gr²v nku²
²rgu^ldd h^lpp{gno gi x^lki i^lcp^lwp^ln⁰

M^lgd^lgd^lgti n^lq^l|gt^lxc^l. n^l4²r^lwcu rqrk^lmwu xq^lw fg c r^lgi twi c^l/
o cucddcm n^l4^l ^ll^lxcn^l O k^lpf^lki n^lu^lgp ^anv c j^lrc^lf^aut^lo C^lppcm k^lgl²p.

ul nŋŋwɔŋ o gi. o kpv dɔnɔi {o kplu|vgt. c Hlɛf tlej/lɛŋg a nɛŋi pqu
 x^aɛu|w k lqi qv. fg wf.vc. jqi { o gi ul nŋŋugmɔn c nɛŋf²uv nŋp{gi²v
 pgo nŋj gv grikv²|pK0 Grikngi vŋi^av. jc A{i vɔv|km cniŋ tcf kni rikupcm
 ku pɔxg|jgp n0 Jcuqpn» xqrv c hŋŋŋi^auc c hŋŋf tghqto nɛŋf²u²dgp0
 O^at 3;39/dgp ci i qfctɔo o cn nŋvc. jqi { c ɛv^amup|gtxcv²ki grgo gm c
 vgt²u|gvgu hŋln f²uv ku nɛu²fcpk ul gtgp²m M²u dd ku jcp i ql vɔvc.
 jqi { c tghqto qm vgt²p xcn» ul nngdn u²i ɛpci { dclqŋj q|. gvgvŋi
 x²i|gvgu nŋv²ugnj g| xg|gvj g²0 J kfgwɔ. jqi { c o ci {ct pcekpck/ /
 o wupcm vŋlgu gt xgn c ul qek²ru hŋln f²u o gn² nŋm^a nplc. o gtv c pgo |gv
 lgrprŋi k ul qek²ru cmɛvc²u xci {qpo gi qul nŋuc gi {^anɛŋi p pgo gi²u| /
 u²i gu. u v c ul gnŋo k lɛxcm ulpeugpm c pgo |gv vci lck nŋ²3²v pqto^a rku²c
²u ki c|u²i qucp ul²vŋi {gpi gwx0 ɛi u jc c ul gi²p{u²i d n uctlf» grŋi g/
 fgvgpu²i²u c wf^acvɛp²i d»n ul^ato c|» nŋŋp{^a o ŋj cv²u²i vŋi n
 nŋ| km cmuŋt c nŋv rŋrksnek xgi {grgo²u|v²vŋ²d n tqddcp» cp{ci
 nŋrŋvŋ| km co gn² tqo dqn²u ul²v²g²0 J kfgwɔ. jqi { o gi nŋm ul ŋp/
 vɔpk c| ct^ap{vɛp²i qv c p²r v n o gi nŋ^apv nŋ²grgu²i vŋlgu²u.
 v^ax^a dd^a c pgnk cfqw eugn²n² 2²ngvŋj gv u²i²u lqi qm nŋ²3²v0 C p²r
 cf lc c r²p|v²u c nɛv^ap^a v^a gnŋp²t²v nŋ²r r gp hŋn|qv^add o²t²v nŋdp
 hŋi {grgo dg nŋm xgpplg c nŋto^ap{c vcm c p²r ki c k ul ŋm²i nŋv²u²
 lqi qu x^ai {ck0 C nŋp{gi gu hŋr^afcv^a 3²u|gnereuqpk c p²r kv c pgo |gv/
 xgn o kpv c jqi {cp gttg kqfcm vŋndcp Rgv lk²u Ctcp{ o^at r²n^av
 o wɔvcn0 G|gn cvwqo cv^ancup ul crqtqf km c pgo |gv i qpf qrv jqt/
 fql»kpcm ul^ao c k^a c pgo |gv² rŋvdg vŋlgu gt xgn dgrnereuq^af km c
 o ci {ct p²r v²o gi g0

C p²r k gt m hŋn|cdcf ŋ²u²j q|²u c pgo |gvk e²nŋm 2²tf gn²dgp xcn»
 ul qn^aɛvdc a nŋ²u²j q| c| cŋr qnev ul gtlpv² eum c jgn|gu nŋw^aru
 rŋrksnek tenj cvc nŋ0 G²tv nŋm c uqŋ|gt A² p²r kunq^a# Fg kv pgo
 nŋj gv o gi^a nplc c nŋl fgv² c p²r 2²tf gn²dgp hŋn|vɔv² gt hŋu ŋ²ugm
 gi²u| uqt^apcm nŋm nŋ²gvpl²0 C|gn w nŋ^an{k x^atem rctro gpvgm
 o kplu v²tkwo qm o qpwo gp²ru j kcvnŋm 2^r ŋnŋm c| A²2^r ŋ²u nŋt^a/
 dcp xku|qpv c vcp{ck kunq^am ul^a|ck²u g|tg0 G| o^at p²r k rŋrksnek A
 C| gi²u|u²i gu nŋw^aru fgo qnt^aek w^ap o clf ŋj gv c rŋrksnek fg/
 o qnt^aek »t^alc ku. o^at pgo nŋu| dgn nŋ dcl0 Hŋrkvk c i qpf qrv^a pgo
 nŋj gv²g/ ku r clf c| cpp{k c o gi cŋi ». uqŋ|qt ul²i {gprvgu nŋt^av/
 nŋf²uv ku rŋrksnek ul cdcf qm²u²cn jgn|gv²v²pk A Gi {ul gt vŋi p
 o clf gppgm ku gr²ŋ c| kf glg0 Fg o kpf gl o²i pgo grŋi < i {qtu ŋgo /
 dgp nŋ²gvŋ|pk^am nŋm c ul qek²ru tghqto qm²cn0 G|gm nereuq^am o clf
 x²i nŋi qf c c p²r k v²o gi gŋv c pgo |gvk i qpf qrv q|0 ɛMquwŋ Nclqu
 r²n^avcp p²r ul gt u²i²pgm ku o k xqrv c| cŋrlc A C|. jqi { ul²v^aɛu|v
 jcv^acpwn qf ch|v c pgo |gvk i qpf qrv jcv^acu ul qek²r rŋrksnek

tghqto qm̄ q| . c lqdd^ai {u^ai o gi u| Āpv̄v²u²j g| . c v̄k gf ²u f²|uo c gm̄³/
 ſ²u²j g| . ²u c n³4 v̄j gtxkug² u| g| 0 J cuqpn» hgn f²uv x^at c v̄kcpqk
 qtu^ai »nku0G| rgppg c| k| c| km̄pu| qrk^a ek»ur qrk^ane#

C u| qek^a rku j c rcf^auv gn o q| f²lc o clf c| c ic| fcu^aik v̄³4dvg/
 o gr²u ku. co gn² c m̄w̄w^a rku rqrk^ane gtg²o²p{gn²pv gn dd/w̄w̄dd nk/
 o ctf²j cv̄v̄cpwn lgr̄v̄ng| pk hq| 0 C pgqpcqkpcrk^a o wu gi {km̄ ſ²p{gi gu
 r tq| tco r qpv̄c xqrv c o ci {ct ic| fcu^aik gt o gi jcw^ap{q|^auc0
 Mrgdgn̄dgti gn̄ qpf qn̄ u^adcp c m̄w̄w^a rku ²u c ic| fcu^aik rqrk^ane u²v/
 x^ancu| v̄j cv̄v̄cp< ěC p²ro xgr²u r̄gi cñ dd ku cpp{ktc ic| fcu^aik n̄t/
 f²u. o kp̄v co kn̄ gp o²t²v̄ ndgp gi {Āwcn gtn̄³4euk pgo| gvk ²u m̄w̄w^a rku
 Āi { . jku| gp ic| fcu^aik ²ngv̄^apm c v̄ng jk̄ p{c ²u ft^aicu^aic o gngw
 h n̄rrgp c| |cn c dcllen m̄³4 km̄ jqi { c o w̄pnev̄rdgu²o²p{ p^awpm
 xku| qp{nci eugn̄ ſ²gdd(00) Gppgm qne c jq| |^a2t²v̄ u jk̄ p{c0 G u| go/
 u³4 d n p²| xg dqpv̄ncu| km̄ nk l²rgm̄ gv̄gu ct^ap{qndcp c| qm̄ nqtr̄ v̄m/
 ſ^aic. cnkm̄ gngp²vgv x²rgm̄ ſ^avpk c m̄w̄w^a rku ²u c ic| fcu^aik hgn̄gp Ā²u
 n̄³4³40 G| gm̄ c| v̄ jku| km̄ jqi { c m̄w̄w^a rku n̄w̄w u gn dd ic| fci qf pwpm
 ngm̄ cjjq| . jqi { c m̄w̄w^a rku jq| u| Ām̄²i gu cp{ci k^a ſ^arfq| cv̄qnev̄ d²lwn0
 C| gm̄ ddu²ik n̄t f²u kn̄ gp hgr̄ n̄³4 uc gt u| cnq̄n< gi {u| gttg ngm̄ o /
 xgn̄ f p̄^apm̄ ²u xci {ppquqf pwpn# Fg jc xcrnk o²i ku pci {qp hgu gi gvp²
 c| gm̄ ddu²i gr̄³4p²u²v xgi {g w̄f qo^auwn jqi { o xgm̄²i p²m̄³4n̄
 pl̄eu. pgo r̄gj v̄ ic| fcu^aik ukngt ugo 0 C m̄w̄w^a rku rqrk^ane uqtuf³4pv
 ner euqrcv̄dcp ^am̄ c pgo| gvk v̄to gr̄ ugn< n̄³4rgu²i w̄f>. o xnḡdd
 o w̄pn̄ ſ^ai p²m̄³4n̄ pl̄eu hqn̄| qw v̄to gr̄ u. pl̄eu v̄cnet² n̄qu^a ſ^aic ²u
 v̄ ngn̄ r| f²utg r̄gj v̄ ſ^ai 0 Go gr̄k ngm̄ v̄j^av c v̄³4 gi gm̄ ²tvgm̄ k u| p̄/
 xqpcñ v̄ ²u ²n̄³4nḡ qn̄ cp xgl̄ gv̄ m̄^a n̄³4cpf>m̄ cnkn̄pgm̄ o²tvgk o kpf gp
 u| go r̄qpv̄d>n o gi Ākm̄ c| gw̄>rck o²t²v̄ ngv̄0 Jc gl̄ v̄ dk̄ qu²cpk w̄flwn
 dk̄ cm̄o o cn p²| jv̄^apm̄ c l³4 gr̄0 Qr̄ v̄o k̄ o w̄c ô o kp̄v ſ^aw̄m̄ ô
 cpp{ktc o gpv̄. jqi { c euq̄ne qtu^ai dcp pgo | u^a hqn̄ ſ^ai qv̄. r̄xgi v̄
 r̄pu²i gv̄ ²u ngm̄ jcpgo dgv̄³4ngpf Āgu²i gv̄0 Mku^a o² p̄qvc. jqi { c
 o ctf²m̄ h̄³4f³4p^a o gpv̄k̄gi v̄³4ldgp ku l>n o gi ²n̄j v̄^apm̄ jc r̄gm̄k̄gi
 o^a un̄²pv̄^a n̄³4lwn̄ dg c o ci {ct v̄ tucfcm̄o i qpf qm̄q^a ſ^au v̄ u jc xcn̄ dcp
 ukngt Ān̄³4³4 dg ngtgn̄f p̄^apm̄ c pgi ²| ſ^ai gn̄pgn0

Fg pg jk̄ {l̄^am̄ jqi { o kp̄v m̄w̄w^a rku rqrk^ane eucm̄ c u| gnḡo k o w̄pn̄ v̄
 dgeu^anḡ o gi < m̄w̄w^a rku ²ngv̄ ²u ic| fcu^aik v̄x²ngp{ſ^ai c| u| go²/
 dgp u²v̄^ancu| v̄j cv̄v̄cp gi {ſ^ai gv̄ cm̄²v̄pcn̄= c o w̄pn̄ pcm̄ r̄gi {gp c|
 d^ato kn̄ gp l̄gm̄i . o kpf gp n̄³4 Āro²p{gm̄ n̄³4³4w̄ o gi dgeu^a ſ^ai v̄v̄ n̄³4 gv̄rd0
 C m̄^an̄³4³4f k ³4u| v̄³4p̄ f̄cm̄ cfqo^ap{q|^a ſ^ai p^an̄ m̄^an̄³4³4 h̄i {gn̄ c ic| fcu^aik ²u
 v̄ej pl̄k̄ck u| go r̄qpv̄ntc0 Gñ² nḡ. jqi { c dqngxkuv̄^am̄ u| go²dgp eucm̄
 c h̄k̄ k̄ck o w̄pn̄ pcm̄ xqrv dgeu^anḡv̄. fg xku| qp̄v pgo cnetv̄ c| gngp²vgu
 jk̄^adc ugo gupk0 Gi {²dn̄²pv̄ ku o gi xqrv ctt>n̄ i { | fxg. jqi { pl̄eu

eum xcno kxgn ku o ci cucddtgpf hĭ kĭek o wpc u|mgno k j q| |^a twf u
 p²m²U U pgo gi {u|gt j cpi q| cwc. j qi { c wf qo^a p {qm grgf p²uqpv
 vtp^a pcm ngi hgn dd go grgwĭp x²i | gw gr²rgk o wpc ku cmno kci
 c ngi u|qtqudd nre uqncvdc ngt²ngv c i {cnqtrck²rgwn c i c|fcu²ik
 vgo gr²uqr}

= Vc²p pgo uqncp xgw²m²u|tg. j qi { c pgqpcqpcrk o wu i qpf qrc/
 xk²i^a pcm nk²qto^a n²u^adcp o gmqt c u|gtgrgv l^au|qw c h²uek o wu
 r²rf^alc. Mg²d²gdgti ô o ci {ct x^anq|cvdcp ô O wuq²rk o x²j|g|
 xcno k j cuq²n²v u|gtg²gw xqpc ng|fgo²p{g|pk} C h²uek o wdcp h ngi
 pgo |gypgxgn tgp²u|gtv n²q²u u eum o^auqfuqtdcp²t²v²ngng dgppg c
 j cwm k r q²rk²nk dgtgp²g|ng²uv O kpf gp k m r g²ci »i lck v²4gn²ug/
 pgm ngi pci {qddknc u|go²dgp c O wuq²rk/h²ng n²u²trgv co gn|pgm gi {²d/
 n²pv vrgu ukngt l²uq²n} Wi {cp² | o gi xq² ctt²n ku i | | f xg. j qi { c
 o ci {ct pgqpcqpcrk o wu ngi gv u²ig ku dk²v²u²xc xcp² ëQ3cu|qtu²i
 À j gn|gdg ngt²ng G o gi x^anq|qw e²ng²q|² u h²rcf cv²ng²q|² ^av
 ngm pgxgpk c| gi²u| pgo |gvg² ~ t²uk h²rcf cv. itcp²l² wu gi qpf q²u²
 K²gp pgo |gypgxg²uk h²rcf cv²ntc uqj c r g²ci »i wu o²i pgo x^anc/
 nq|qw. pgo ku o gtv i qpf q²rk} C h²uek o wu n²o²rgv² u|k²v²i i gn
 v²tc hgn c| q²ru² p²rpgm c nq²ddk u^a|cfqm u|gp²gf²ugk n²u p{q/
 o q²u²i ckd²n nk²wtl^ap|qw j k^akw o quv g|ngv c j k^anev n²o²rgv²
 gt xgn nk² {qo n²u^a m c pgo |gv l² w²rcf q²u²i ckv r g²ki c| gt²p{ v²4n²/
 ngv²u²i² ki {gn²|pgm hq²nq|pk | u g|gp n²u²nc xk²i q²ucp nk²|xg c|
 q²ru² pgqpcqpcrk o wu À e²rlck c h²nc²lcf » À pgo |gf²ngv gi {gp/
 ugp t^a c²nt^a m pgxgpk g|ngt g c| À h²rcf cv²ntc O^a t c i {gto g²ndgp
 gi²u|gp v²4w²cv²ucp c|qnev c ucl^aw²i qnev ki {gn²|pgm nk²h²rgu²v²pk
 co gn² w²rcf q²u²i q²ntc c| À pgo |gk²h²rcf cv²m²w²c²pcn²

| t²v²gv g|gm w²p. j qi { Mg²d²gdgti kuo²vngp. u ngm²ug²ug
 j hq²n²pcm o gi hrgn ngi pci {q²p dgi c²w²cp h²i n²m²q|qw c h²uek o wu i q²p/
 f²q²v²k²i^axcn² u m²u²p²u² grkuo gt²u²gn go ngi gw² c pgo |gypgxgn O wu/
 uq²rk ukngt²gk} C o ci {ct À² { h²metq²u²t²v² t²|gw j^anc o gm²w h ngi
 c|²r²u² o wpc j cv²tc²ep v²ku vrgv² xq²n² ^an²u²h²i n²u²pcm ngi h dd q²nc²
 M²4²r²wcu r q²rk²n²wu n²v²tg gi {^anc²i p pgo v²nc²nc k²gp k^ap {À u lko /
 r^av²k² U } p²m²u² gn²tv² g|²tv c r²kdgt^a rku ucl² » euk ngn f²ugk ku. p²q²c
^anc²i dcp c ucl²pcm g|gn c t²u²xgn gr²i l² xku|q²v v²ctv²q h²pp²
 Tqu²p²xgp xgw²m j qi { . cnk² c r q²rk²n² dcp uqncp ër²kdgt^a rku
 v²tc²n² i {cp^apv go ngi gw²m o kpf gp r q²rk²nk »xcv²u²i qv o gm |xg
 fleu² g²gw c h²uek o wu² Co knq² gi {u|gt c|v^a n²u²q²wc. j qi { c h²u/
 ek o wu Q²ru|qtu²i dcp p²r²u|gt. c| gi {km r²kdgt^a rku n²er ek²n² }lc gr²/
 ugp v²q²nc²ng. o q²p²x^ap²ëP go wf lwm o g²v²pk²peu ucl²u|cdcf²u²i

M²t xq²n g o k²w k²gi gung²pk² Mg²d²gdgti c h²uek² m²en gi {²Aw

xcmqwc. jqi { c hucək o wu pgo gzrqtvckm0 C hucəkuc rqrkckck o »f/
 ulgtgm ^avāngv²u^v pgo vctqwc kpfqmqmpcm xci { nji gw²i gupgn0 Gi {/
 ulgt gp vcpwpk cnetv c tgpful gtv n c|qp c rqpvpq. cjqn x²rgo²p{g
 ulgtkv cnefv vcpwpk ²u w³pq|pk xcn»0 Rr0 pci {qp vgu|gw pgnk c|
 c o »f. cjq i {cp c hucək o wu c| gi {²p ²u c| ³au|gu²i xku|qp{^av ulcd^a/
 n|q|vc0 Fg ctte. jqi { p^anmpm c rctro gpk hqto c xcnjc ku o gi ul p/
 l²m gi {^anci^ap pgo i qpfqn0 Rgf ki mā^ap³u^gp c| gnu . fg o²i c
 o^auqf km pgo |gvi { r²u ul p^axqpc^axcn ku pci {qp gr²i gf gwgp xqn0 ĞOk
 o ci {ctqm ô xcnlc ô oquv pgo wf p»m rctro gpwtk o wuwpnev
 xcno gn{ o^au nqto^ap{|cvk tgpful gttgn hgreugt²rk0 Pgo ^av r²p³pk
 cnetv vgi^av c hucək o wuv jcpgo o kpfclv gncpwpk v rg. cok
 jcul pqu ²u gi {dgp c ucl^avqu o ci {ct xku|qp{qm n³4³av ²rgu^ar gu
 nji gvgw0

Ogi xqrv ctt»n i{| fxcg. jqi { c xk²i j^adqtÀdc dgrgdvgi gf gw
 gw»rck p²rgm n³4³Ān cncr¹a dcp x²xg c| qruul c nji gi²u²i gugdd0 C pgo
 qruul rqrkckmwqm n³4³Ān xqrv c| gi {km gnu . cnk O wuq²rk pci {u^ai^av
 hknuo gtv0 ĞJ c Kvgp ²ngkô lgi{|k o gi ô c ZZ0 ul^a|cf gnu hgr²/
 pgm xgl gv gi {²pk²i g rgu0 .. t²Āw cpcm co knqt o gi hki {g²gw.
 jqi { O wuq²rk mā^af gv²u^v o^at c| gw»rck n³4³x²rgo²p{ dcnul^atp{c
 ku ngl fk uglv²pk0 Dg mā^ap³u^gp ³4³Āw c hucək o wu hgr² k^ap{w» o ci {ct
 ul ko r^av^ancn0 ĞOk o ci {ctqm xci {wpm c| qruul hucək o wupcm c mā^a/
 h²af³p nji ki c|kdd o gi²tvk ²u d^ao w»k0 |rrgp glv c o gi²t²uv xku|q/
 pq|c c hucək o wu c o k jgn{|gv²pm o²n²p{r²u^axcn ²u gnu²reuk v²o q/
 i cv²u^axcr0 Oci {ctqtul^aipcm vgi^av nk ngm jcul p^ark c pcelqperk/
 o wupcm ²u m^av^apcm c|v c d u²i gu hqt^au^av co gn{ c nji v²ddcp
²u nji gi²u²i gugddgp c hucəkuc qruul h²af³p dw|qi0 Qruul ul ko r^av^ak/
 pcm gi {km nji²tf gngudd go r²ng c| c p{krvq|cv co gn{gv Qruul/
 qtul^aid»n xku|cv²txg 3; 490^a rtkku :0^ap gi { cmqt o²i mā^ah²af³p gr²i
 luo gtgvgp. tqul rcrkqtuc p{qo qw pci {qp ulgt²p{ nk²n²u^a p²o gv
 r^atv rqrkck Alu^aipcm c X³nkuejgt Dgqdejev²pgm cfqw0 Mrgdgn/
 dgti o^at gmqt nkhlv jqi { c hucək o wu v²4²pgv²dgp n²v nqtul cmq
 mā^ap³u^gv o gi < c| gnu . vrlgu i{|grgo o gn |^at>f» rgtk>f wu xgl gv
 gu|o²lg xqrv c dqngxk o wu gngpk jcte= c o^auqf km nqtul cm c| ²r²v
 o wpn². dgrg²txg c| Al^anco hgr²r²u^v ku0 M²u dd glv c nqtul cntc/
 qu|v²u o²i go nji gypk hqi lc0 C| cmqt o²i gt u rqrkck jctedcp^am
 pgo |gk ul qekcrkuc r^atv ul^ao^atc t³klf gp ³au|ghqi rnc c hucəkuc cmq»
 o wpc hqvquedd o q|cpcvck0 M^ap nkgo grk c m^av^aru. wf qo^a/
 p{qu pci {xqpc^ai qv ²u^a r^aq|cv²u²i gw0 C p{krvq|cv^awgx
 pgo |gk ul qekcrkuc Alu^ai²» u²j clwc h|vg Mrgdndgti o gi^ancr²uck/
 jql< o k o kpf gpv wf pc c pgo |gk ul qekcrk o wu cmqypk jc o^at grk/

v̂|jgwg xqpc c o c t z k u c e u e u g r f n g v 2 u j c o a t g n f 4 3 4 j g w g x q p c x g n a m g i { a v a n c r i d e p c r c t r o g p k h e u g i n g v #

C r̂p{gi gv cddcp hqi r̂i r̂i c d w m 3 4 u l g . j q i { M r g d g n d g t i g i { a n c r i p p g o t q n p u l g p x g l g w c f k n c v t k m u a m o d g t g p f g l 2 u g n f g u l k p v p . h g p p c t v u p 2 m a n t e l q p i q w c l c m u v o w p n i 2 t v e c p 2 r v e r p t o c k E c o r e i p c 2 u U c t f l p k d g p 2 r g u f 2 u g . c r q u x a p { q u 2 u o c n i t k u v g p i g t / r c t v q m n k u a t f v u c 2 u o x g i j g v x 2 v v e r g . i { c t o c v q m u l g t l 2 u g . j q i { c p 2 r h 4 i 4 u g i g v q r u l h 4 f 3 p n g j g u e p g n j g n g l p k j c f u g t g i . x f k 2 u r i k h q v c . j q i { K r i c A l d » n h e r k g j g u u g X g r e p e g u l g t r 2 v c H 4 f n 4 k v g p i g t n g r y k o g f g p e 2 l 2 d g p . c D c m i p q p 2 u c N g x c p v p . c t k u q t i k o g p v d g h g l g / l 2 u g w p A l . p c i { u l g t e 2 n j m 2 u k f g a n j m c h e u k o w u a n c n o g i v g t o / v g w p g a p c e k a p c r k o w u l g i { 2 d g p i o o k p f g l x c n u r i i c n g n d x 3 a n g c t 2 u l d g p j c u q p n g u l o 2 p { g m h g r v 4 g n x o c i { c t o l p k u l v g t o

M r g d g n d g t i 2 u c h e u k o w u k i g p o 2 n t g j e v n e r e u q r v t c x q p c v n q l » r i n i v h q p v c e d d k t f c m k f q m w o g p w o w p m x c p 0 C l g i { k m g i f . o a t M r g d g n d g t i j c n i r e w p c I g t c t e j k h q n » k t e v 3 ; 5 4 0 p q x g o d g t k u l a o a d c p q r u l w n o g i l g r e p v v e t l g f g n o g u v e p w o a p { c < G r o g p i k g u u g p / l k r k f g m c v g q t k O w u u q r k p k c p 0 K v o g i k u o 2 r k c h e u k o w u v 4 v p g / v 2 t g x q p c v n q l » . o a t g o n f g w h e r h i a u v c n i v n q t u l c n t » n c j c t e 2 u c l 2 r f v o w p n e r g t l o f w a t » n C i { | g r g o v e t o 2 u l g v u 2 u o g i 2 t f g o g n v x q n g u u q t d e p c l 2 t v o g t v c j e v n o t c v 4 g m x 2 u d n j k p { | q w c r a t w q r k k n e k 3 p e 2 n a i 0 O w u u q r k p k c j e v n o c v o w p n i t e . c m q v u t c x c n » n g j g v u 2 i p g m h q i w h e r 0 D a o w e v q u 2 r g u f v u e n f k c i p q u l v k a n e c F w e g c l q r u l u i k i c l k c m r x g v u A m i i n g v k v u g l g n j g l o 2 t v g p f q n i q l v e n k r t q i t c o l a v 0 P a r e g i { 2 d n i p v o k p f g p o k p f g p p g n 3 4 u l g / h a i 2 u o k p f g p k p v l n g f 2 u 2 p g m x 2 i u 2 t v g m 2 v c p g o | g v 2 t f g n g c f l c 0 M a i p 3 4 u p n k o g r k M r g d g n d g t i c n i v u c t n e r v q u r t q d i f o c o g i q r a u c n i 4 A n g i t v g t g f o 2 p { g n v < c p 2 r g u g f 2 u k 2 u c p g o | g v p g x g n k h e r f c v q m v e t 2 p o g i h i { g n j g v p c i { u l o n g t 0 C l k u p c i { q p j e v q w t a . j q i { O w u u q r k p k c o c i c o x 2 j g l u g i f u 2 i A n j f k v c p c i { p g o | g v k v t c f f e k / n e v . c o 2 i o k p f k i g r e x g p v 4 v p g k g t n g v . n i 4 v a m c x c n d e p p c i { / u l g t t o c k i q p f q r v 2 u 2 t l g r o x k f i q v k u 0

C o a u k m f q m w o g p w o g i { e k m u q t q l c v e . c o g n { d g p c l K K E c p v q f g n N e x q t q / v c h e u k e u o w p n e j l o p w u l a v 2 t v g m g l k q r k c u » k p c n 0 G l v r i p o 2 i 2 t f g n g u g d d . o g t v o 2 i o 2 n f g d d d r k n c p v u v g p i g f M r g d g n / d g t i i q p f q r e x k f i a d c 0 U l p v g w l l q p i x c a m e r f l e o g i . o g m n q t c d g n u t q n p u i a q v h e f g l g w h e n c h e u k e u v 4 g m x 2 u g m 2 u c l t 2 i k d d 2 u A l c d d g r / i q p f q r u c k n i 4 3 4 0 R i 0 c o w p n e j l o p w u l c c o w p n e h q i c m a v 2 r r q n c p 2 t v g r o d g p a m e r f l e o g i . o k p v c j q i { c p k u o k p f k i j k f g w e 0 C v i o g i j e v t q l a u d c d g r e f t c h k k n e k 2 u u l g m g o k o w p n e g i { c t a p 0 C n q o /

o wpluv³ m eucm c h³k³nek o w³n³v. xci { r³i h³4l³gdd o²i c p²r²dk² w²uqm
 kf²gi²gu n³v³ u³v³hw³ u³v xqncm jclrcpf»m vrlgu²t²m p²gm g²kuo g²pl²
 K³v xcp c pci { m³4p³du³i c h³uek³ o w²u c n³qo o w³pl³ o w²u n³4³4w³#
 C m³4p³du³i gi { \wcn h³ru ddtgpf u³i gv ku lgrgpv c h³uek³ o w²u l³x³a³tc²
 C o ci c i qpf q³rc³tc ku o gt c o w³pn³ j³ko p³w³ u²r n³h³gl³ 2²u²dgp<
 ë³rc r³ctk³ uk eqps w³u³cì ô c j³c³a³v³ a³rf³q³l cwen²u o w³n³i xcn ngm n³4³tf³g/
 o g²pk c j³c³a³tc²u c j³c³a³j³q³ o²n³»x³a³ ngm x³a³pl³0 ëO²ku²q²c 2²rg²v² r²gi gn .
 gt v n³f³w³ | cf» p³cek³pc³rk³ o w³#

G³ c³m³q³o c³n ku n³go g²rk j³qi { c h³uek³ o w²u pci { gt²fo²p²{gk
 n³4³Ä³n c r²gi lqddc² o²i ku c p²r²gug²f²uk r²q²rk²nc² v²t²p g²r²tv ukngtgm tci cf/
 v³m o gi r²gn²v²0 D²k²q²{²a²c h²gtcl² q²wcm go r²ng²l g²v²dgp c²q²m c² 3; 32
 v³l³p n³k³q³i q³l q³w v³txgm co k³mt c³ C³r³4³f³ 2²u c F³w³a³p³v³Ä³n o ci {ct
 v³4³dn³v³xgn c³nt³v c x²i | g²vu h²q²{qu>v c U²2²ng²{h²4²f h²g² dgp²r²g²u²g²pl²
 O ci cu² v²lc c² q²ru² cp²{²a²m v²to²ng²{u²i²v² 2²u c²v c² u²l²gp² g²j²cv²tq²l² a²u.
 j³qi { g v²to²ng²{u²i i {Ä³o³4³eu³v c³ q³ru³ o w³n³i u g²gx²gp gt²l²v c²
 Ä³l r²q²rk²nc² o²a²t v³4³dd² p²go j³ci {lc u²v²l>>f²pk c pci {x³k³i dcp. j³cp³go
 3³u³l g²ct²lc ô p²go w³qn> uqtdep c n³k³ | 3³4w pci { p²go g²vk e²ng²m o gi/
 xcn>u³l³uc 2²tf²gn²dgp²0 M²gd²ng²d²ti Ä³i { 2²t²l²k j³qi { c h³ l v²to²ng²{u²i²/
 d n c² g²gx²gp gt xgn uctlc<» 2²rg²v² n h²ncf>» k²o r²gt²ck² o w³a³n l²qi qucd/
 dc²v gn ugo r²gi gv n³r³ | g²pl²0 F²g g i q²pf q²rc² o 3³4³w ku o ci {ct r²tq²d²h²o c
 a²n²0 V²to²u²l g²v²ug² o ci {ct k²o r²gt²ck² o w³u>n c²m²qt p²go r²gi gv²w u²>0
 F²g h²rk²nc²pv ng²mk u²go g²kn w c² C³r³4³f³ pci { Ä³gu³u³i g²0 ëC p²g²q²cek²/
 pc²rk² o w³pc³m x²q²pc p²r²gug²f²uk 2²u i c²l²fc²u²ik v²t²gp gi {km r²gi pci {q²dd
 h²rc²fc². j³qi { o gi q²rlc c n³tf²u². j³qi {cp² w³f³w³m v²to²u²l g²vu p²r/
 u²l cr²qtq²a² u³w³np³cm k³v³q³ j³gn³gv cf³pk u m³4³p³4³gp c³ C³r³4³f³ v²t²vk
 go dgt²gn 2²u 2²rg²wn o gi v³4³g²pl²0 C n³k³a³pf³q³t³u³ j³gn³gw v³4³dd 2²rg²v 2²u
 o w³pn³ k³v³q³< gl r²g²pp² c E²cp²q² f²gn N²ex²q²t²q² g²nu ut>f³l³pc³m pci {/
 u²l gt c²rc²i q²pf q²rc² 2²u gl r²gi {gp gi {km c²rc²o q²l²k²wo c c o ci {ct r²q²k²/
 w³n³pc³mk³0

C p²g²q²cek²pc²rk² o w²u n³4³Ä³n M²gd²ng²d²ti r²w²rk²el² v²nc²k c²rc²i q²pf²q/
 r²v²j²q² j³4³gp u²l g²gv²w x²q²pc v²tc²ro cu. v³ku³v³ | >> l²ng²i x²k²v² l²pf²/
 v²pl²0 C²pp²{kv ukngt²Ä³v g²r²tp²k j³qi { c r²tq²ico o Ä³j³q³l c² q²tu²a²i x²g²l²gv
 u²ng²o g²k n³4³Ä³n ku v³4³dd² j³q³l³a³u>n³cn³0 O ci c D²g²v²ng² d²gx²l g²v²u² v³l³v
 c P²g²q²cek²pc²rk² o w²e²l² n³4³g²v²l. co gn² M²gd²ng²d²ti r²gi h²q²v²quc²dd
 kf²gx²a²i> ek²ng²l²pg²m i² l²go²p²{g x²q²n²0 M²l²ng²pv²g²v. j³qi { c M²gd²ng²d²ti/
 v²qn n²ko q²pf²q²w u²> c²rc²l²a²dcp x²2²xg c v²ng ku n³r³x³ku³gn n²q²to²a²p²{r²tq²ico tc
 f²p²{gi²v h²gl²k n²0 ëG² c² c²rc²i q²pf q²rc< c i²{3²ng²t²ki o gi x³a³n³q³l q³w
 x²ku²q²{q²m n³4³4³w 2²n o ci {ct²a²i p²go | g²vk gu²o²p²{g²l²pg²m 2²u i q²pf q²rc²v
 x³k³i³a³pc³m c³ Ä³l n³4³Ä³n 2²p²{gn²l² xcn> u²l cd²uc 2²u n³l³g²r²4²ug c² q²np²cm
 c v³4³gv²gp w²nc²pm co gn²g²ng² j³cr³fc³ c³l q²tu²a²i Ä³l³a³2²r²l²ug o gi

v̄4v̄pjgkm (00) U Ām²i xcp gi { eugrnx dd. cmqpk lqddcp wf »
 qn{cp oci {ct pgo |gf²ntg. co gn{pgm i qpfqmuf²ac c| Āl e²mkv |²ugm
 gmp²tg c o ci {ct v̄4v̄pgrgo v̄crl²dcp i {³āngt| kn0 C pqpckqpcrk /
 o wu i qpfqrwkl²i²v gi {²dn²pv ᵃncr²dcp grhqi cf²m fg c| gpgxgl²u
 pgo pci {qp v̄gu gw. o ci c c u| » r g f k i u g i q i {c p u g o w f q w n e t t l g t v
 eulpa r p k 0 T ᵃn q u k l g p . c n k c | g u g v m v ᵃp {q o » t²u |²d g p M r g d g n u d g t i
 o g m g w u l q n u w ᵃn p k u l k p²p o g i o q p f v c c o c i c x²r g o²p {²v
 ēM k e u l p {²u u q x²p { r g e u g p {g g l c u | » u c o c i {c t ᵃ | c v m p c i { v ᵃ |²d g p
 k p n i d d o g i r ³⁄₄ n i ⁴⁄₄ f k m o k p u g o o g i u ᵃ r 0 C u | » o ³⁄₄ ³⁄₄ k v c t v c m c v
 c | q p d c p c p g o | g v k n i ⁴⁄₄ x²r g o²p { n g f x g l g p h j i c f v 0 U q m ᵃ v o g p v c
 m r g d g n u d g t i k i q p f q r w k l i d » n ô r g t u l g p²x v g r p ᵃ n ô c | ē Ā l g l t g f²x i
 r t q i t c o o l²d c k u 0 T ᵃ n q u k g i {²d n²pv p c i {q p v r i ᵃ c p n k h l v g w g . j q i {
 o k p f c | . c o k v M r g d g n u d g t i e u l p ᵃ n²u h r g i e u l p ᵃ r p c m e t . c r g i k i c | c d d . .
 r g i v r i g u g d d p c e k p c r k i o w 0 P c i {q p g r i u o g t u l x c n e v v r i i v c | c i i
 r v d r e k u v M r g d g n u d g t i n i ⁴⁄₄ f i k o x²u l g v²p g m l g n g o |²u²tg k u < ē C n i t /
 o k n f i . c m w ᵃ n u u l f p v w f c f p k p g n k = u v f w u c u l f p g u . n ᵃ m g v 0 Q n q u n q /
 f²ac n i ⁴⁄₄ x g v e p . p g o r g f ᵃ p u . p g o w f ᵃ r n q u . r g f k i p²j c k i g p o²n g p
 l²t 0 | u o k p l u l v t n u n i²i²a k n i ⁴⁄₄ ᵃ n n k g o g m g f k m c | c n j q i { u v f w u d e p . i
 i q p f q r w c k d e p . h q t f w r w c k d e p k t q f c m k l²p { l²a u l k m 0 0 0 C | v v c t v q o .
 j q i { c m w w u l o k p l u l v t ᵃ t p c i { u l c d ᵃ u ᵃ c m q w » o w p n i l²a v p c i { q p u l g /
 t g p e i²u g p g i²u l f i k n k c | | u w t p c r k u l v n i k o n i ⁴⁄₄²u g 0 G r x²i t g c n k c p { /
 p { k n g l f²u c p p { k v x²i g l . o k p v . c n k c o c i c o n i ⁴⁄₄²u k v t ᵃ r g v²p²r r /
 c p p { k v r i f²n u p { u²i i c n u v h p v | k²x c n t g p f g m g l k m o k p v l²t c f j c v v
 r p u²i i c n²u w f q o ᵃ p { q u t ᵃ v g t o g w i²i g n c p p c m u l ᵃ m²i²v n g m²t g l p l g
 c p p c m k u . j q i { p g e u c m ᵃ n c o v k n i t ᵃ x c n²u n r x k u g n k x g n x k² | |²m
 j c p g o g z r g m q t ᵃ d c o c i ᵃ v c r c k n u p c i { n i ⁴⁄₄³⁄₄ p u²i i g n u l g o d g p k u
 c o g n { x²i t g k u o k p f p ᵃ l w p m w c . c o g n {²t v o k p f p ᵃ l e p x c i { w p n k
 o k p l u l v t g m²u ᵃ l u²i f i » m g i { c t ᵃ p v 0 R q p v u c d d e p . v r i ᵃ d d e p c r k i
 r g j g v w x q p c M r g d g n u d g t i r v d r e k u l v n e k o n i ⁴⁄₄²u²p g m r²p { g i²v ³⁄₄ u l g /
 h j i r e p k²r r g p c | c n c n i ⁴⁄₄p { x x g n n e r e u q r v d e p . c o g n { M r g d g n u d g t i
 i q p f q r w k l i²a p c m x²i u d v g v |²u²v . c p c i { p g o | g v p g x g n r t q i t c o /
 o q v u t f i g w g ³⁄₄ u l g 0

X²i k i v n i k p g w ᵃ m M r g d g n u d g t i r v d r e k u l v n e k o w p n i u r i²a p c m h d d
 ᵃ n q o ᵃ u c k 0 U q m o k p f g p v x q i v c m e m w p m o g i x l f i f i c p k 0 G i { t n c | q p /
 d e p p g o u | » n w p m o g t v p g o k u p c i { q p u | » n j c w w p n 0 C r v d r e k u r m
 o w p n i u r i²a d » n t g p f u l g t k p v l g r e p²n g p { j g n { g v h j i r c n r g c r q i r o k c 0
 M r g d g n u d g t i . c o k p v g t t g o ᵃ t v³⁄₄ d c m e m q o c n t ᵃ o w c j c w w p m u l k p v
 ᵃ n e p f » j f i n e r k²u g i {²d v o c f ᵃ u q m n g t g u l w ᵃ |²d g p²n²u²u f q n i q l q v 0
 O k p f g p n k v g t o²u l g v g u p g m v r i p ᵃ . j c c v o c f ᵃ u q n t c h e r g i v x q p c u j c
 c x ᵃ r e u l q m²u g m g p x ᵃ r e u l q m h j i r e p ᵃ m r g n i ⁴⁄₄ g v k p g m l » t²u |²v 0 U c l²v

xcnqo^auc ulgtkpv i{lv^{3/4}wg. h²rtgtcmc c| gmgpg ¶tv v^ocf» ekmgngv
 u c| xqrv c ul^apf²nc. jqi{ c mwa²trqrkknck jquu| Arg^atcv^a x^an» x²i u
 rgu^ao qn²u^ap^an o clf g|mgv gn xgu|k0 Pci{qp xcnu|¶ c|qpdcp. jqi{
 c| gi²ulgv jco ctqucp grf qdc. rgi cfd d ku jci{c^vn²d»n jk²p{kn
 c v^ocf» ekmgm i{lvgo²p|g0 —i{ r²vu|km o^at n^{3/4}dgp o gi i qpfqnc
 o ci^av u j c c I qpfxlug²u v^{3/4}dd kf v jci{ pgnk c v^ocf^auqm cmqt ku
 eum x^arcu| p²m²an o ctfvc m xqpc. o kv cjqi{cp Mgdgndgti c rgi/
 tkn²ddcp x^arcu| qv c| À p0 nmgogv gvpngf. c rgi v^{3/4}du|^{3/4} o gff
 kvtr gm²ekntc. c| quvdc n^{3/4}dgu »n²uqntc. c jwo qtk^an» nqo qn/
 vcrpu^ai qntc0 Dgu²nlpgm c vwg²u c| gtgfo²p{gn# O kgn o²i ku
 ngx²u go dgtv v^ocfvc m cpp{kv²u qn² jxgugp. o kv v. h²i i g²n²r r gp
 gl v c r qpvq ku o gi n²m p²j^ap{ ul »xcn xk²i ¶cpwpm cppcm gmg²tg.
 jqi{ ktqcm k o wpi²u^ai^adcp c v^ocf^auqm p{qoc gmg²u| 0 E²n^a/
 uqnev vi{cp vgu| t^alwm c hmgv gv c| qpdcp n²p{gi kgi t^ad²u| v c| cmq/
 v²uqntc upgo wqn» uqtdcp c| kf tg0

Lgi{|gvk n^{3/4}av gi{²tfngv. nmkxk²i^adc o²n{gp dgrxk²i ¶»
 e²f w²v w²npm co gn²gv Vcn²w U^apfqt gi{kn n^{3/4}p{x²d n ¶tv nk o ci^a/
 pcn0 èOci{ct D^arpv. c ZXi0 ul^a|cf gi{km h xk²|g ¶tv gi{ cmnqo/
 o cn c p^af qtkur^appcm : tk Pci{u^aiqf c o ci{ctqm fqi^av. jqi{ c|v
 cnk pgn²m ul qn^aiv. o kpf gnu² o gi cnet²v m gppk0 Mgdgndgti pgm
 o kv t²ik n^{3/4}rgk h²tk²apcm pgo xqncm kn^a k k g|gp c r qvpq0 C o c/
 i{ct v^{3/4}v pgn²gv ku gr²i crr qucp kuo gtv c j j q|. jqi{ pgo |gvk ul qn²/
 uclpnev kngv rgi pg eucn²f²n0 Cm²m c xqiv o gi kuo gtpk c j cvnqo
 dktvni²u^axn gi{Aw²t» j ¶ gmg²ugng< c dw²i» go dgtgm fleu²t
 ul »p qm²ckv. u v j ¶ gri ô c rgi v^{3/4}du|^{3/4} gul v²vkckci ul^{3/4}p{ul A²av ô
 n^{3/4}ngo²p{gk0 Cn²fv qn{cp dw²i» wf »u j ¶ kg ku. cnk pgx²t n^aux^ap{v
 ngtgul vnv gn co gn²pgm pgxg n p èmgdgn²gti kà 0 C| gi{kn dcn²rf cirk
 Àu²i c dw²i» wf »uv euk n²gv o gi. gi{ o^aukm lqddqrf cirk Àu²i xku| qpv
 c o gi v²ul vnv o kpu|gt gmgp hqtf vx^a v²ul » o »f qp eu²r u xgtuk²/
 dgp hqi m²ckc^{3/4}ul g c èmgdgn²gti kà h dd wrc²l qp²i c k< èPgo v^{3/4}0
 fg jclrk ul ¶kgugp ô i u o p f j c w hcp{ctpcm 00 C j ¶ gri²ugm pgo
 qn²ul vcm^{3/4}0 gw0 C v^ocf^auqm pgo wf²v m o wpen²gf x²v rgn²cul vclp0
 Fg c|²tv h²lcn0 U cni²to kn{gp j quu| À kf gki cm²m c xqiv o ci^av c d²ng/
 v²tudgp i{cni²qpk o²i c rgi x²i²p ku d^apvqc c|²tvgn v²gp²i 0
 Fg cpp{ktc uj cugo wf²v m uqf^ad»n n²q|pk jqi{ x²tgu r q²o k²ndc
 dqu² v²ul qwxqpc0

Cppcm kf gl²p. Vku| c Ku^ap o^auq²km o kpu|gtg²nu²i g crw
 plkv mwa²ul^amco vkn²t lgrpv o gi gn ul^{3/4} c pci{qdd p{kn^apqu²i
 gn w0 C fli c d^aqnt^ae²dcp²u c d ¶ »u^ai^ap^an o n^{3/4}av0 Pgx²v j kxcv²/
 v²tuckp n²k²an h rgi c|qm kuo g²v m cnk c Lw²p/gi{gu²gv o wpi²u/

u¹ic k^apv dgjcv>ddcp ²tf gmf vgn⁰ Rqrkknckci gm qu>f» ^atp{²npcm
 ngjgvgw xqtpc c| Ā go dgtv vgnkpvpl⁰ Fg o^at cmqt ku ěxcrcnkpgm¹
 nngngw ngpplg. o gtv ²ul tgvw²m ²u v¹o cf v¹n⁰ C o wpcr^atv ki c| jkv
 rkdgt^aruck u³4²v mgtkn¹ru tgcnekqp^atkuv ul ko cvqncm dppp⁰ N^awm
 o kn{gp eu³4¹p{³agp vctvqc o ci^av o kpf gp e^ahqrcv gngp²tg c ěx^afi.
 jqi { veile c nupitgi^aek>pcn⁰ C rkdgt^aru xkfi dcp i {cpĀu xqrv o kpv
 tgcngkqp^atkuv. c| gngphqtcf cm k rfi n¹4 dgp o^at i {cpĀu rgw. o kpv
 rkdgt^aru⁰ Uqm nqt^vtu^av ²tvj cuqpn¹ o gi nrgv²u⁰ Pgo xqrv n¹4 p{ rqrk/
 vknckci ^avo gpgvpm ²u o kvgi { ³au gn¹4 ner qeupcm rppk c Vku c/
 h¹rg o wpcr^atv ²u c I ³o d³u/h¹rg gi {u²i gu r^atv n¹4 ³4w# C| v eucm
 ngxgugp n¹w¹m o gi u o²i ngxgugddgp xqncm jclrcpf>»m grkuo gtpk
 jqi { Mrgdndgti o kpf gp rqrkknck kfgn¹i k^a»n hĀi i gvgpĀn o kpf gp
 k^a dgp o kpf gpĀw eucm c o ci {ct ²tf gngngv ul qn^anc u c| ³4³4n o ci {ct
 uqtuvki {gnj gwngf xgl ddtg hto^a rpl⁰

T³4k^a r^atvqpn¹kĀku²i²v pgo u^ao {kxc o kpf ki xcrcv gn{kn rqrk/
 vknck r^atvj q| vctvq| qw u n¹w¹i vrgp. jqi { u Ām²i gug^vp vrf p {i¹ug
 gngp²tg pgo n¹4 ³4pu²i gu o²t^vndgp ²tvjw c rqrkknck n¹tv{c ngxgt²u/
 jgl ku⁰ Cppcm cnk rctrcv gp^vtku nqto^ap{ cv o gngw c| cmqt^vuj q|
 \$qnxgvgpĀn ul Ām²i gu rqrkknck jcvcm cv vctw>u d dcp n¹k^a plc Āu³4¹p
 tci cf pk pgo o kpf ki ngjgv c per k r^atv rqrkknck ěgo dgtk pci {qp ku go dg/
 tk¹ lrgpu²i glv qttkpvqti cwc wfqo^auwn ugo xgpp⁰ C per k rqrkkn¹dcp
 pgo tkn¹p ô uclpqu ô Āu|pk ngm c| ^atten xci { rgi cm>dd r¹u|>rci
 vgo r>| pl⁰ D^ato gpp{ktg ku ki {gnj gw ô co kpv glv c| gn| ndgp o gi/
 hki {gnj gwĀm ô Mrgdndgti c mwnĀr rqrkkn¹v c per k rqrkkn¹»n gn/
 x^arcu| vpk d^ato gpp{ktg vkncknq| qw ku c| gngp. jqi { gngphergk c mwnĀ/
 rqrkkn¹v ²u c r^atv rqrkkn¹v ³au gngi {¹u²m x²i gtgf o²p{dgp c|
 ul go ²n²p ngtgu| vĀn c ngw o²i ku ³au| gner euq>fqw u c| Ā²ugnd n
 co kngv c r^atv rqrkknw ner qw lwwq c mwnĀr rqrkknwupcm ku ²u xku| qpv⁰
 C| c tgpfn¹kĀk twi cm cu^ai. ul {k>u^ai. Āi {gu²i. co gm{gn c jcvcm cv
 c pgo |gv ²tf gn¹dgp o gi vctvcpk ki {gnj gw hgn^a dqt {vqwc. u v hgn Āj {
 vgw rqrkknck gngphergk⁰ Gpgxgl v²m mwnĀr hki ct>pcm cnk o kpf gpĀw
 lrgp xcp⁰ Gi { cmemo o cn gi {c| qp per qp n¹v dgu²fv gv vctvq< c|
 gi {kngv c Pgo |gk Mcu| kp> U²ej gp{ krcnmo^a1^ap. c o^auknev c Rguk
 Ktcrk J kn¹4 u²i ul²n¹a|^adcp⁰ C x²rgv² ³au ggu²u nk v p gp hgn/
 jcu| p^aij cv> cmemo cv p{Ālvw c rgtu| kn¹| utc. ěc| ³4tgn¹o pci {
 o kplu| vtg rqrkknck hĀi i gu²i²pgm nki Āp{qf u¹tc⁰ Gm qpf l^am Rtvqgw/
^adt^a| cvcm co gn{tg o^at o kpf gp grk. k^ap{ ²u cmemo t^ancetqnc
 c o ci c rqrkknck d²n¹gi²v o gi x^afqn^am grkvcf^au¹cn rqrkknck ^atw
 r¹u¹cn tqul {i¹u¹gn ekp⁰ o wu¹cn¹ i J kj gvvgp nrgo²p{gu²i i gn wf lc
 o ci^av qwj qpvcn¹ rpk c rgi gngp^vvgudd ngm v¹tucu^ai qndcp ²u o k^a m¹

dgp ku 0 0 0 Xcn>dep pgo gi { xcuc xcp c v | dgp. jcpgo ul^a | 0 0 0 Xcn
o knqt c rqrkknck^a nj cxcvua^a i c | cte² r² t n hqi lc o k^v | pk ul ko dq
nkuu^a dt^a | c^v vud0 u d0

Eucm c² tv gzjwo^a nwm g| v c per k rqrkkn^a w n h n⁴ w gi {² dn² pv
lgrgp² mgrgp^v o cf^a uv. jqi { ¶ grfv v cf lwpm c j cpi pgo t n co gn{ gv
gn ngmgw v tpk0 Vgto² ul gvugp pgo x^a rcul qn0 Ngi h⁴ / gdd. jc o^a t c |
gi {² pk vku vuu² i² dg ku dgrgi^a | qncm c d¶ u^a i p^a n ngtgugw x² fgm gv0
M^a / p³ / ggp d^a pvqc. jc gi { / gi { vgtxgv c n⁴ j cpi wcv nkscr qi c^v uc
e² n^a d » n hrf qdqw u cttc Ai { tqpvqcm t^a. o k^v j c o^a t o gi ku xcn u ¶
vqc xqpc0 Hqi cf^a uv cl^a pmq. jqi { dl² qp { qu rcr qnev² u rqrkknwucnev
dng wf pc mxcpk c rgi lqdd vgtxgm mgp² u² dg c | cn jqi { o gi xcn /
u ¶ u wnev cl^a pnc0 G² tv o qpfqw rg ctt » n jqi { uqnev x^a rcul qn cuuqp0
Rqrkknck mgphrgngv. cnkn gi { Awcn ul go² n⁴ gu mgpu² i gmpgm ku² tgl /
v² m o ci wnev hrfqi^a uc ul gtlpv Ai { ugo rñj gvg o gi i | | pk0 G² gmpgm
gi { c hqvqu < jqi { ^a tvcpnc0 C | ki c u^a i xku qp v c |. jqi { g | gn c vct
w | nqf » o ci cvct^v ucn uqmn lqddcp hgn wf v dquu cpvcpk mgphrgkv.
o k^v v c rñi v⁴ guggd r rigo k^a n » ekmgmgngvj gwg xqpc0

G d³ / e u o ci cvct^v u o³ /⁴ w c | qpdep pci { . vknqnv² t |² ngp { u² i
j Ai » fqw o gi 0 Oci c dgxcnqc. jqi { u » x^a tqi c o gi² t^v u wco 0
J ki i cf u^a i qv gt ngv o ci^a tc. fg dgnAn x² t | kn0 U | go dg^a n ¶ i qw^a m v
gn ul³ c p² r qmc^v u Ai {² xgn o clf. co knqt g | nqo knwo dc hwrf v0
c mwwu^v te^a v rt > d^a n² m c i c | fcu^a i k v² te^a mcn³ ul gxgul ¶ vpk c | | ck
c ^a v u ¶ » x^a ffc n jqi { c | gn ddk c | w » ddkm gn n gni ¶ klc c |² rgv
pgfxgv c r² p | v0 E0 gpp { k vcmkn^a u. p² j c k^v tkn^a u. o gpp { k hwteuc
rqrkknck dcmi^a u. ô u » j clv hgn ô co gn{ gv² p p { vi qf v p p² | vgo 0 J ki
i cf v p ul go rñgo c² tv o gtv tgpf Argv p An j kul gm cddep. jqi { co k
ki c u^a i² u xcn > dep pgo | gv² t^v m c | h² r tgvul k u j c ngm h² r t rñk Anlc
d » n c vcmkuuqnev² u x^a llc² u | t g x² vgp An c pgo | gv n⁴ x² rgo² p {² dgp
c o ci c i qpf xku r² uul gt Ai^a v0 J cpi lc eucm cmqt rgu i Ap { qu. jc
xcrcnk c mwwt^a vcp^a i nwwu^a v j k f gv0 Gi {² dn² pv hqvqucddpcm
vctc c r q | k ¶ r wd r k ul v c hqi cm cm vku v^a u^a v. o k^v c uqnuqt
co Ai { ku o gff x² f gng² uv. xci { o gi gn | v² o cf^a uv0 Vku v² dcp xcp
c | cn jqi { c o ci { ct rqrkknck² rvd n pgo rñj gv gi { n⁴ p { gp nkt vpk
c i { n⁴ v p gm c | v c | cvo qu | h² t^a l^a v co gn{ c o kngppkwo » c qw gn² t
r gu ngf gv0

Co gpp { kg tqul p² xgp xvgw c n⁴ /² t f gm³ / xg cncw hqn » ul go² /
n { gung² uv. xci { c nppkd^a rk r² to^a xcn hqn » go dgtj clu^a v. epp { ktc
³ / An c v² ti { kci qu ntkkn^a pnc0 C hqi cm cnev vku v² » pgo guj cpi Ai
xkc r g f ki ul kvg Appg² n⁴ gu² vgw j cpi l^a v0 C vctcm cucdd gu | o g
eugt g x² i u gt g f o² p { gkv tgp ul gtlpv c ul qnuv^a n ku pci { qdd j² xgn

ki {gng| gw c xcn^auⁱdc^a v^āngvpk0 Eucm gi {gv pgo d^lt< c r tg. o gl^l/
 rⁱdcu. o kpf gp go gmgf gw u| go rqpwⁿ o gpvu r^atv riqsknek ci k^lek^l#0
 k^lvgwg c| qncv. cnkm gl w^oddk o hcldep tgo gngngm jqi { xli {^a||
 |cpem ëo gtv gddgp c| qtu^aidcp uqm c rⁱqsknekci |u^ā hfg gngu j^a|#
 Cmq^vuk ngf x²v c| qpdcp ô o kpv o^at t^aowewco ô ugo o k^lrg
 v^ocf^au pgo wfvc o gi lpi cvpk o²i ngx²udd² o gi v^ā4pk0 Cf { j^lfgu
 uqt^atc i qpf qm co gn^l u| gtlpv c o ci {ct go dgt ëgn²t| km gi { i qpf qm/
 vpi 0 Mrgdngdgti t^agu| o²n< c o ci {ct rⁱngm v²p{ rgi nko qpf jcvv/
 rcpwn 2t|²ngp{0 J^ap{cp xqncm cnkngv c v^āu^audc xkw 2t|²ngp{uⁱ
 o gi hqu qvw cmq^w ngf x^ānⁱo Vcⁱp pgo ku rppg ki c| k o ci {ctA
 | tf gngu o »fqp k^v| k gn c rtqdi^o ^av0 Cf { u| gtlpv c nrgvk o ci {ctqmⁱ
 t>n dgu²n cnkm n^ā4³v xcn^adcp i {cmqtk c| gnu pci { u²tgrgo w²p c|
 3/4³ntg gj cmi cv^ou. c eugpf gu n^ā4³p{dg o gpgm^āu0 o ci c c| qpdcp
 p{wi cvk o ci {ct. cnk U²ej gp{kv n o gi vpwnc. jqi { ëc| qtu^aidcp
 qn^l ngx²u c rgnk go gmgf gw²i 2u c| ki c| uⁱ2t| gv. jqi { c rⁱqsknek
 r^an^ap pgo x^atj cwpm o^au uqtuv o kpv c n^ā4{³4vrgp »eufⁱ tⁱuw. jc
 o gi dwnwpm 2u gpi gfgm gu²i gv ki c| k dgeu^ārⁱu p²m^ān jc jcvcrqo tc
 lwqwpn0 U wflc c| v ku. jqi { c nctcx^appcm o kpf gp n^ā4^āo 2p{gm
 n^ā4³vj cncfplc ngn#

Rwdrieku| vnc k o n^ā4²u²pgm pgi {gf km t²u| g. co gn{dgp pgo |vgv gn w
 xkⁱ rⁱqsknek v²xrcvnev rt>d^anv o gi p{kp k u gi {gu t²i kdd j c| ck rtqdi^r/
 o^akv. rⁱo c| Cn^ā4^f n^ā4²u²v o²n{gddgp o gi xkⁱ i^lcpk o^at o kplu| vgt/
 uⁱg w²ptc gukn0 Mwn^ārⁱqsknⁱl^apcm 2rgvo x²pgm kuo gtv^vu²v cncr/ .
 l^adcp x²xg dghgl| v^ān0 C| wqn^w 2rgv| cncu| ô cki xcn^o kxgn v^āld
 gi { 2xp²n ô g vgnkpv²dp rⁱp{gi gup ^ālc v pgo jql qw0 \^at^o hglg| g/
 v^āpm o kpvgi { gr k^oi wun²pv g i {qtucp h^w wqn^w j>pcrqm o wpm^f/
 uⁱ^av kuo gtv^v u o gi rt>d^ailc ngo²tpk c mrgdngdgti k qrwu lrgp v
 u²i²vc o ci {ct o xgn f²u v^ā4^vpg²dgp0

GRKN I WUO

C Dgʏ rɒp/nqto^a p{ rgo qpf^a uc0 ô Mrgdgndgti grɒp hɒnɒl qw gt xgn hɒn^a pi qn c r c| ctn^a u x^a flc0 ô Mrgdgndgti Å0 p0 èr c| ctn^a ucì c u^a o qm xk^a i^a p^a r0 ô Pgnk lwqw c j^a n^a vcp hɒrcf cv j qi { c n^a 4 x² rgo² p{ v j q| |^a u| qmcuuc c t² i k² n pci { qdd o² tgv nwnw^a rku nlc^a uqm x^a m^a n^a u^a pcm gmgt Årj gvgvɒp xq^a n^a j q| 0 ô T^a nquk lgp² u Crr qp{ k Cndgtv x² rgo² p{ g g r qpvt» r0 ô Mrgdgndgti hɒrɒi^a uc< c|^a r f q| cvqm o k² wo^a xcn c| gtgf o² p{ gm o czko wo^a v ngm d^k vqf| cpwpn0 ô C mrgdgndgti k èr c| ctn^a uè v^a 4 v^a pgk v^a xrcvd» r0 ô Ngo qpf^a uc w^a p r wdrlku| v^a nek o wpn^a u^a i c o² i grɒxpgdd rɒl < n^a r qrk^a nek r t qdr^a o^a m^a n x^a tqur qrk^a n^a xcn Cn^a 4 f/ n^a t^a f^a ugn hɒi r mɒq| kn0 ô C xk^a i x^a n^a i t qo dqn> j clrc o^a xcn u| go dgp o gi r t> d^a rlc nwnw^a rku cmq^a v ucv x² f gm gl pl0 ô Tqo^a p x² rgo² p{ Mrgdgndgti nwnw^a r qrk^a n^a l^a t> r0 ô Qm^a u| qtu^a i dc n^a u| Ån j qi { gn cf^a uuqtq| cvq v vt wqp c huc^k o wu n^a 4 f k h rɒi o ci { ctqtu^a i k² t² v^a n^a r^a u^a t r0 ô Cn^a 4 f k wc|^a ucl= o gi dvgi gf² ug= j k vgrɒp j c^a n^a r0 ô Vgo gv² ug0 ô C n^a 4 f k uclv d Åu Ålc0 ô Mrgdgndgti hɒrɒi^a uc c v^a 4 v^a pgrgo v^a n u|² n^a t r0 ô Mrgdgndgti² rgo x² pgm e² rlc < Å o ci { ct rɒm^a v cnetv hɒto^a rpk co gn^a gr^a i gt u rɒl c v^a 4 v^a pgk j cv^a tqm xkuu| cu| gt|² u² tg² u² gr^a i pci { xqpcn Å j cv^a tqmɒp dgn Ån gi { o qf gtpgdd^a m^a co { r^a v^a u² tg0 ô Mrgdgndgti . o k² v U² ej gp{ k^a v p{ x^a p{ < r^a t j w| co qm² u² gr^a / t² ugn0 ô Ww^a rci qu grko gt² ugn< I 3/0 d³ u I { wc p{ k^a v n^a | cv0 ô Mrgdgndgti / nk^a n^a v^a u0 ô Go r^a n^a k^a qw^a i = xkuu| cgo r^a n^a |² ugn= o² n^a cv^a uq^a n0 ô U| qdqt/ hɒr^a n^a v^a uc h x^a tqudcp0 ô Mrgdgndgti² rgo x² pgmx² i u vcpw^a i c² u k² vgr0

3; 530 cwì 0 3; 0² p c ic| fcu^a i k xk^a i x^a n^a i n^a 4 gvng| o² p{ gn^a pv dg^a n^a v r² p| Å { k pgj² | u² i gm o k² w c Dgʏ rɒp/nqto^a p{ rgo qpf qw u Mrgdgndgti ku grj ci { v c| v c| t j gn^a gv co gn^a gp o clf pgo gi {² x/ v^a gf ki x² f gm gl v^a 2 u vx^a ddhlg^a rɒl vgw c o ci { ct nwnw^a v0 C rɒ/ o qpf^a u w^a p gm^a f f³ / v c u| qn^a uqu r qrk^a nek htucpi 0 D^a t p{ k^a / x^a pxc» xq^a n^a j qi { c xk^a i x^a n^a i² tv co gn^a pgm xkj etc x² i ki r wu| v^a k^a v Cwt> r^a v² u Co g^a kn^a v c nqto^a p{ v² u c ètgp^a u| gtv^a pgo rɒj gv hɒrn u² vppk uq^a m^a n gi { u| gt dd xq^a n^a gppgm o gi^a n^a r v^a uc j gn^a gw c ppcm gn^a j k^a v^a ug. j qi { v^a 2 xgp ngt^a gu v Ån xkuu| c² ngm c pgo | gv d^k cm^a xcn0 C x² to guggdgm c| v ku gr^a hɒr^a vgw² m j qi { Vtkcpq xq^a n^a 2 u xcp< c| qtu^a i dclckv u| g^a k^a v Åm c| qm^a | v. ugo o k o^a u. j qi { c nqto^a p{ tquu| w^a x² i gl v^a c f q^a i v0 Gj j gl c hɒr^a f² n^a p{ u² i j gl² u gi { xqpcn Å dg^a n^a v^a w^a u² i j q| n^a r guv u| k² v o^a t grj cp{ ci qj c w» o gpp{ k^a i xq^a n^a gr^a hɒr^a vgpk

c| Àl wcnév. c xcuwcm tgpfdgjq|^au^av. c| Àl kunqf^am g|tgk. c vcirtc/
^anff|qw n³4 kp²|o²p{gnqv. c| Àl nm>j^a|cnév ud0 ud0 C pcrk rqtkskæ
 o cm ckv dk qp{qu gugvndgp c ngi n³pp{gddgp x^af cunqf^au^acn ngj gv
 j clvpl# Xqncm cnkm o gi^ancr f|qw^am j qi { c| qtu^ai qv u v U gi gf gv
 ku gi {pgugp Mrgdgnudgti vgw v³ptg0 C vcr f^anqj{ pci {xqpcn^au^ai
²u u|gtgv i qpf qu^ai u|cnf cvcp o wpm dcp gn³4w v³ gu|vgf gl²/
 pgm|^ao n³4 vku|gp uqo o^aucp ngj gvgwgrkp²|pl#

Mrgdgnudgti mwn³4 r qkkskæ o wpm u^ai^av x²i ki nff²tv² c r c|ctrf ul
 x^aflc0 Oquv gl c x^af xwncplmw vqo dqf u^acn tqddcpv nk0 C n³4fxg| /
 pgm n³4v> c mncmo w n hnd^avt^a|qw i { n³4n³4²u ki {gn³4 gw gj kgvpk
 vto²u|vgugp u|ki qt^aÀcp o gm|xg c| cf cvqnev u^ao qnev ³4u|g/
 j cuqpr^av uqnev. j qi { Mrgdgnudgti c| cdrcnqj fqd^anc nk c| qtu^ai
 r²p²v. gl²tv. eucm gl²tv² u pgo o^au²tv hqi {wpm nk c| cp{ci km^a
 d>n00

C ngi o²n{gdd ki c|u^ai qv gtt n c r qpv>n kuo²v Dgv ngp Kux^ap
 o qpf v0 U cxck jctepi|À^aun³4pv p{qo l^am gn c n³4ukp{gu rtqrci cp/
 f^av< ëPgo ngj gvgw c|v c o wpm v Ài { o gi qrf cpk j qi { c pgo l gw n
^arf q|cvqm pg n³4gvngugpgm²u pgo v³4 fxg i^apeeucn u|go tg/
 j^ap^au^acn o gpv c o cic Aw^ap²u o gi xci {qm i { | fxg. j qi { gi {
 n³4u ddk nqt. dqf qi cdd kf ki c|u^ai qv hqi u|qni^ancvpk²u^arf cpk hqi lc
 Mrgdgnudgti Mwp> i t>ho wpm l^av0

P²|| Æm gl v c uqnev dqf i cvqw n³4t²uv x²i tg gi {u|gt c u^ao qm
 xk^ai^ap^ar0 C n³4gi {gl²u n³4dcp c|^amco k n³4cf^auqnd>n c mwnw|/
 v³te^atc grgkpv u²i {gprgvugp nku ³4u|gi gugw0 C mqt gi {²dn³4pv o²i
 pgo ku cncmw nk vgrgu²i²dgp c|^amco mwnw^aru n³4grg|gw²i gk^a
 xqpcvq|> n³4 hgrqi^au0 3: 8:/dcp g n³4cf^auqm crvc o ctcfcem c|
 3' /pcn0 J quu|cu lpi cf q|^au w³p. co k pci {l^adcp o²i ku gn tg v³4²uv
 lgrpv 3: ;2 v³l^ap gr³tv Æm c 4' /qv0 3; 33/dgp o^at 7' n³4 Æn l^atwpm
 co k c j^adqt Æ²xgkdp kuo²v cr³gugw 4' /tc0 Mrgdgnudgti o l³ku|vgtu²/
 i²pgm gnu²x²dgp gr³tv²m c 60'6' /qv0 Gw n ng|fxg. h ngi Mrgdgn/
 dgti²tfgo²d n^amctf> p³4gn³4²uv vcr n³4pn0 3; 48'49'/dgp r r0 c m^aw/
 wu|v³tec n³4cf^auck gr³tv²m c ; 62' /qv0 W {cpgddgp c|²xdgp c
 euqpcn qtu^ai mwnw^aru n³4cf^auck c v³4v³pgk qtu^ai 3; 35'6 j cuqpr>
 n³4cf^auckpcn: 30'45' /^atc t Æi vcn#

Tgpfgngl²u^apn³4t^ancm c ènqpu|qrk^aek>u nqtu|cndcp c| À0 p0
 dgtv^a|^auk ³4u|gi gnd n n³4w³ v³grngt^a xqpcvq|> j krgu cf cvqm ku0
 Gu|gtkpv c vcp{ck kunqf^antc o gpv 68'6 o k³> R. gi {²d mwnw^aru dg/
 tvj^a|^auqntc 97'0 o k³>0 G| w>ddk ³4u|gi d n c|qpdep eucm gi { t²u|
 kngxg c mwnw|v³te^av o gtv n³40 42 o k³> c o gl i c|f cu^ai k²u k rctk
 u|cnqmcv³u kp²|o²p{gkpgm l wqv0 Gi {²dn³4pv c hgn qmcv³utc.

gi {gvo gntg. mlkln ntc lwqw 4406 o krik}. c h kunqf ntc. kvgt^aw/
uqntc. 34u|v4pf q| e2nqntc 8 o krik}. c n342rhqmÀ qmcev^autc :B o krik}. c
wfqo^ap{qu kv²|gvgn ifvuf²u²tg² u hlgngu|v²u²tg r gfk 804 o krik}0
C| w«ddk 34u|gi pci {qdd t²u|g. 34u|gugp 607 o krik} c vto²u|gwfwq/
o^ap{kmwew» kv²|gvgnpgmlwqw0

M^av²i vgrpAn jcvcm cu 34u|gi gm n34p34gpcmqt. jc c euqpn
qtu^ai vgrgu|v n3rgu²i²v u^ao dc xguu|An0 Fg. co kv Dgv rpp o qpf v.
c|v c o vpi^av. co kv Mrgdgndgti x^amcw. ^arfq|cvqm p²mAn pgo rjgvgw
gn²i glpk0 U Mrgdgndgti g vgnkvwdgp ku v4v²pgvk hqvqu^aiÀ jkcv²u
vgt²v jqtq|v< c| hgrcfvc xqiv jq||^au|qmcvpk c n34x²rgo²p{v.
o²i cpcm o gi²tv dd t²u²v ku cjjq|. jqi { c mww^arku Æi {gm l»xcn
hqvqucddcm o kv c èdqrfqi² nki {gl²uk nqtu|cndcp gm²r gn²m vj^av
c|^amc pcm glpvAn xku|qp{nci qucp uqmmen pci {qdd ^arfq|cvqnev ngm
2vAm jqlpk. o kv t²i gddp vgw0 M^av²i vgrp. jqi { e²hck o gi xcn/
u²v²u²tv Æi {gugddp. pci {qdd gt²m|gn wfqw n34fgpk o kv gn fgk
xci { nqn^ai^ak0 G| c|qpdep gn²itg pgo eucm lqi c. jcpgo n34rgu²i g
ku xqn# X²i u hqnq c| qtu^ai cp{cik gtgl²xgn xcn» u^ah²tnqf^au vnf²p
o²i ugo vctq|qw n34xgvgrpAn c| hgrcfv n34dg< c| fqi c c mww^atc
2v²ngkpgm o gi o gp²ug² u vx^addhlgngu|v²ug xqn0 U jqi { c n34x²rg/
o²p{v cwr¹a dcp x²xg glgp c rpvqp ku ^avqto^anc. cpcm dgu²f gu
dk qp{v²nc gi { 3;5:0 lcp0 330²p. vj^av l»xcn jci^arc w²p o gi lgrgp
p{krvq|cv co gn(dgp c| gi {km nkui c|f/c/n²xkugn ô xcn>dcp Mrg/
dgndgti u|nggo²dgp ô c o ci {ct p²r u²rgu t²vgi gk u^ao^atc n34gvrk
c p{qreql v²nqu p²r kunqrc o gi xcn»u²v²0 C p{krvq|cv t^ao wcv
cttc. jqi { Mrgdgndgti pgm pci {qp tquu| xku|qp{qm n3434v xqiv r²p|g
cttc. jqi { jcvcm cu mww^arku cmq²uqnev. n34vAm v4dd glgt p²r/
kunqf v r²vgj|qp0 èP gm²pm j²dc lcli cvcm cp{cik rjgvgvgru²i gm
o kv0 Ok c|v n²vwm jqi { gl eucm i {gpi g. vjgvgvgrp cuu|qp{qm n34/
v4fgr²ug= c| kic|k pci { go dgtm w²p hw c r²p|0 O wuqkpk o²i gi {
vtx²t n ugo o qpfqw rg r²p|j²p{ o kv0 Co²i c|qpdep c v²i cdd
2tvrgo dgp xgw n34x²rgo²p{ gi {km n²r xkugn lg kv gp hqi cm c|qw p{k/
rcvq|cxi grlwqw. Mrgdgndgti pgm ngngw c o^av²u²i ki ogt Æf 34/
vg²v u gnugpxgplg0 :rg²dgp ku. jci^arc w²p ku uqnev cncfvcn cknk
o n34²u²xgn ner euqrvcdp r c|ctf²uv go rgi gwgn0 U v. co k o wrcu|v²u
gi {2d vgtArgvgrp v4v²pv. c|v ku u²kvugp f²v m c| u^ao n²l^atc c|cn
c o gi qnqf ucn jqi { o^auqm gn n ku gnugfv c r²p|v0 C u|ppk pgo
cmet» rtqrci cpc jcv²uc cncw Mrgdgndgti Æi {²nv c| gi {u|gt dd
hqv²|k²ndep. o kv cnk c r²p|v o^at c| uhqt^aup^an vnf²p o²i c depm²
lgi {p{qo f^adcp. xci { rgi c²dd ku c r²p| Æi {o kplu|v²tkwo ner w^adcp
rghqicnc u o kg c ngx²udd² 2rgo gu nqn^ai^am o gi lgrgpvm jqi { ècmq/

ṽ uckntcì hgf gl ggv dl̄ qūucp̄cm c r²p|oci p̄cm o^at eucm j n̄v jgn(g xqm̄0

Fg o²i v̄u|vgn k²u o gi²tv l>cn̄et>k n̄4 ¾v̄ ku xqncm cn̄km c ěn̄4nḡn̄g²ūi n̄k̄i^auq̄n̄n̄0 T^an̄q̄uk lgp p²n̄ nḡxḡup̄ dgeu²ān̄^m ṽ/đdtg c d^avt̄ cm̄q̄w̄v. ěcn̄k̄pgm̄ v̄x²nḡp{u²i dgp. vt̄xgl²udgp. x^am̄cm̄q̄|^au/ dcp. o gt²u| cnet^audcp pgo v̄cñ̄rl̄wn̄ r^atl^av. o^au^av̄i U T^an̄q̄uk ku. cn̄k r̄gf̄k̄i i c|f̄ci r̄f̄nḡp̄gm̄ pci { h̄gi {xgt|gv j̄cteup̄cm̄ gi {ḡvo gu o / xgn̄u²i go dgt̄pgm̄ w̄f̄»u²u dgeux^ai {» gm̄²pgm̄ v̄ctv̄qc v. c̄nr̄l^a/ dcp x²xḡ c̄i i qf̄cm̄ cum̄f̄q̄w c m̄w̄w̄t^ar̄ku n̄kf^auq̄m̄ pci { ṽ v̄nḡk o k̄w̄0 ěJc M̄gd̄n̄d̄gti M̄w̄p̄ it>h c j̄ḡw̄gp o k̄n̄k̄p{ k̄ p²o ḡv̄pgm̄ xci { c p̄gi {xgp o k̄n̄k̄p{ k̄ h̄t̄c̄p̄k̄ p̄cm c m̄w̄w̄u| o k̄p̄k̄| vt̄ḡ xq̄pc. xci { j̄c c j^ad̄qt̄A²u c h̄t̄t̄c̄f̄cm̄ cm̄ r̄w̄l̄ v̄²uck²u ucp{ct̄A j̄gn̄|ḡv j̄gn̄(gw̄ c|²p^am̄qo xcn̄ūw̄v xq̄pc o gi c j̄cto k̄pe o k̄n̄k̄» o ci {ctt>nc̄ cm̄q̄t̄ M̄w̄p̄» it>h p̄gm̄p̄m̄ ku n̄qt̄l̄cn̄q̄u l̄gr̄gp̄v̄ u²i n̄4 q̄m̄c̄v̄ u²āi {k o k̄p̄k̄| / vt̄Āpm̄ r̄j̄ḡv̄p̄0 C̄ euq̄p̄nc̄ q̄tu^ai Ā̄ gn̄|gi²p{gf̄gw̄ j²vo k̄n̄k̄» o ci {ct/ p̄cm̄ o k̄p̄j̄c n̄w̄zu r̄ḡp̄p̄ḡ c| dgeux^ai {». r̄c|ct̄ u| gm̄go ḡ0 O ci {ct/ q̄tu^ai 00 o c gi { x^ai^au. gi { k̄v̄u0 C̄n̄k̄i p²j^ap{ h̄c^am̄ c t²i k̄ ḡt̄f̄ d̄ r̄i C̄r̄r̄q̄p{ k̄ C̄r̄d̄gt̄v̄ u| k̄p̄v̄p̄ M̄gd̄n̄d̄gti r̄j̄j̄²ḡdd̄ v̄u|vgn k̄ n̄4² v̄ctv̄q̄| q̄w̄0 O²i M̄gd̄n̄d̄gti² r̄v̄v̄d̄gp̄ gr̄k̄uo ḡt̄v̄ c| q̄m̄c̄v̄ c t̄ḡp̄f̄ n̄f̄k̄ Ārk̄ u| q̄n̄^a/ r̄c̄v̄n̄c̄v̄. co gn̄|ḡnḡv̄ c o ci {ct̄u^ai p̄cm̄ v̄gw̄ u o k̄p̄v̄ r̄j̄ k̄r̄v̄v̄ nḡuḡdd̄ v̄cp̄Ā^a m̄c̄r̄²j̄j̄ c̄w̄c o gi. j̄q̄i { c m̄w̄w̄t^ar̄ku h̄gn̄ d̄du²i t̄ḡ xcn̄» ṽ/4gn̄x²u c o ci {ct̄u^ai p̄cm̄ c m̄Ā²Ā²f̄k̄ h̄t̄wo q̄m̄ k̄i gp̄ nḡf̄xgl̄ j̄cpi w̄c̄w̄^an̄q̄|^au²v̄ ḡt̄gf̄o²p{gl̄ v̄ḡ0 J̄c̄r̄r̄c̄ w̄v̄p̄ n̄l̄go ḡnḡ. j̄q̄i { j̄q̄|^a h̄q̄i j̄c̄w̄ ṽ^ai r̄^aw̄/ n̄4. vt̄go v̄ ḡt̄ xgn̄ d̄²»^am̄co h̄t̄k̄Ā^v c o xgn̄ xk̄f̄i gi {ḡv̄gp̄^am̄co^a/ dcp ugo k̄uo ḡt̄0 W̄i {c̄p̄eucm̄ C̄r̄r̄q̄p{ k̄ o gi ²Ā²r̄²uḡ u| ḡt̄k̄p̄v̄ M̄gd̄n̄d̄gti m̄w̄Ā^rq̄r̄k̄k̄n̄l̄c̄ ěc̄ p̄go|ḡk̄² r̄v̄v̄ i {¾nḡt̄ḡk̄p̄gm̄ h̄r̄k̄uo ḡt²u²d̄gp̄²u v̄cp̄w̄/ o^ap{q̄|^au²d̄cp̄ xq̄m̄ o gi c̄nr̄q̄| x̄c̄i 0 Fg c|²tv̄ ku w̄c̄w̄ c n̄kf^auq̄m̄ pci {/ o²tx̄ go ḡm̄gf²u²t̄ḡ u c̄d̄d̄cp̄ r̄^aw̄c̄ M̄gd̄n̄d̄gti² r̄v̄v̄ v̄c̄i k̄w̄o^av̄. j̄q̄i { ěf̄ p̄v̄ l̄gr̄gp̄v̄ u²i²u gi {²pk̄²i²xgn̄ v̄n̄l̄ḡup̄ n̄q̄pi ḡp̄k̄ r̄ku ¾^am̄» j̄c̄v̄^a/ n̄4v̄ o k̄p̄v̄ o k̄p̄k̄| vt̄ c o c̄k̄ r̄²p| Āi {k²u n̄4 i c|f̄c̄u^ai k̄ ḡt̄ m̄ |uk̄d̄d̄c^au^a/ p̄cm̄ n̄qt̄u| c̄n̄^ad̄cp̄ p{ḡt̄v̄ u c| |c̄n̄ r̄^av̄c̄ u| Ān̄²i ḡup̄gm̄ x²f̄ḡp̄k̄ j̄q̄i { w̄c̄l̄/ f̄q̄n̄r̄r̄gp̄ p̄go c̄ h̄rḡn̄ u. j̄cp̄go c|q̄m̄ cn̄km̄ c n̄kf^auq̄m̄ go ḡm̄gf²u²v̄ u^ao^atc̄ r̄j̄ gv̄ x² v̄ḡv̄ n̄0 O²nc̄w̄k̄ n̄4 Ān̄ ku ṽ/đd̄gp̄ n̄k̄²v̄gm̄ ḡt̄t̄ḡ c r̄q̄p̄t̄c̄ x²f̄ḡm̄ gl̄ km̄ v̄ f̄ḡ c|²tv̄ o²i ku e²m̄| i c̄v̄p̄cm̄ v̄Ān̄²t̄ḡv̄|²ut̄ḡ. v̄Ā²t̄c̄f̄» v̄ḡw̄^ai {t̄c̄. h̄²Ā²ir̄gi gu o »f̄q̄p̄ n̄kf̄ q̄w̄ n̄k̄uḡdd̄/pci {q̄dd̄ ¾u| gi ḡnt̄ḡ. co gn̄|gm̄ c| q̄p̄d̄cp̄ o ci {ct̄ o v̄p̄n̄f̄ un̄ḡ| ḡnḡv̄ ṽ^ar̄ r̄^anc̄m̄ o ci {ct̄ o x²u| ḡn̄p̄gm̄p{ Ā²v̄q̄w̄emo v̄p̄n̄erḡi gv̄ u²i gv̄00

M̄gd̄n̄d̄gti o ci c̄ ṽ/đd̄ ²Ā²d̄gp̄ p{ k̄c̄w̄n̄q̄| q̄w̄ ḡt̄t̄ n̄ c̄ n̄²t̄f²ut̄ n̄ c̄ v̄u| v̄c̄ r̄gm̄k̄uo ḡt̄gv̄ p{w̄i c̄m̄^ax̄cn̄ c̄ o ci c̄ k̄i c|^ap̄cm̄ u| k̄p̄v̄^av̄t̄|²u²/ xgn̄0 ěK̄c| ô ²Ā²l̄c̄ ô j̄q̄i { d̄ nḡ| u²i gv̄ n̄4 x̄ḡv̄nḡo. fḡ eucm̄ c r̄²p| Āi {/

o kplu| vgt $\hat{A}t \wedge r \cap \cap$ c r²p| hgrj cu| p^a r^a u^a p^a n c| qpdep c rgi pci {qdd
 vnet² nqu^a i qv emem c| wmm o gtv cdd»n kpf wnc o nk jqi { c| gnu| g
 i²p{gf gw pgo | gypgm c| ^arf q| cvqm o kpl o wo^a xcn c| gtgf o²p{gm
 o czlo wo^a v ngm gr² tple⁰ Kuo² vngp t^a o wcvqw cttc. jqi { pgo u| cdcf
 c r²p| $\hat{A}i$ {k nkj kv u² i r kncpcv{ k eu $\hat{A}i$ i gv² i² dgp c n²p{u| gt
 nevqpc k rgu| gtgr² uv $\frac{3}{2}$ pn² pvgu mww^a rku hgi { xgrgv² vngn dsgv | p \hat{A} pn⁰
 eJ qn xcp c u|² rgu x^a m \hat{o} n² t f k \hat{o} co gn| gnuqt c hrgn u² i gv xkugpk
 d \hat{A} pc \hat{A} | t| k jqi { gl gp c rqpvp c rgi ngo² p{gdd jctc x^a t t^a. wflc.
 jqi { c o g| k \hat{A} dcu $\hat{e}i$ {cnu \hat{A} r \hat{A} go dgtgm o kpf ki \hat{v} \hat{A} ddu² i dgp xqncm
² u rgu| pgm v \hat{r} p cttc ku u^a o \hat{A} qw. jqi { \hat{v} \hat{A} gn² u gkpgm o gi² tv k n \hat{A} $\frac{3}{2}$ v
 ku o clf cncf pcm ci i qfcm cunqf »n⁰ Fg x^a mnc c ngu \hat{A} t² i gv. co k
 m \hat{A} f gv² u² p gmdgv \hat{A} v² u² v ngx^a nu| vj cvcvp xqn⁰

Dgv rgp Kwx^a p p² j^a p{ u| \hat{A} dgo ctnq» u| »xcn co gn| gndgp dgp
 p \hat{A} ndqtqi c| gi {²pk ²m² p{gm n \hat{A} l^a pcm rgh| vqw jcpilc. M \hat{A} gdgndgti
² rvg o x² xgn nreuv \hat{A} vdep c o gi / o gi \hat{A} w» v^a o cf^a uqntc e² rj| xc
 o gi lgi { | k \hat{e} O ci {ctqtu^a i qp c i^a peuxgv² u. c t^a i cm \hat{o} . c dghmg \hat{A} v² u
² u c p² r u| gt vgp² i c| qnev n \hat{A} l² tk ² rvg \hat{A} ndgp. cnkm nu \hat{A} putw \hat{A} k o w \hat{A} n \hat{A}
 xcn xcn \hat{A} f k ² t² v ngngv v \hat{A} go v \hat{A} pgm pgo | gv \hat{A} pm u^a o^a tc⁰ | u c p² r u| gt /
 u² i dcd² t \hat{A} q| qt \hat{A} c c| qn \hat{A} pcm c j qo r \hat{A} n² v $\frac{3}{2}$ g| k cnkm euk \hat{A} i » u| cxc \hat{A}
 ncn u² f \hat{A} km o gi c \hat{v} o gi gm r \hat{A} n² v² u gl gm o $\frac{3}{4}$ ² c euk \hat{A} i » u| cxc \hat{A}
 o $\frac{3}{4}$ ² tgl \hat{A} km c pgo | gv \hat{A} p² | xg o gf f ² rvg \hat{A} npgm pgi c \hat{A} k ² t² v n \hat{A} v
 O c o^a t wflw u o kpf gpk wflc. kuo² vngp jcpilc w \hat{A} m c p| k \hat{A}
 x^a pqu^a i gn w ku. jqi { M \hat{A} gdgndgti v \hat{A} l \hat{A} v r \hat{A} ngm xqn \hat{A} u| gi² p{gp
² n² u u| gi² p{gp jcnv o gi⁰ C n \hat{A} xci {qppcm j u² i gugdd u \hat{A} l \hat{A} t^a v
 gm \hat{A} r| grpk ugo r \hat{A} j gv⁰ C t^a d \hat{A} qw h \hat{A} n \hat{A} tgmngn² u o k \hat{A} n \hat{A} men $\hat{A}i$ { i c| f \hat{A} n \hat{A}
 nu \hat{A} f qw. jqi { c dghmg \hat{A} v² ugm o² i c| v \hat{A} qn \hat{A} n \hat{A} pcm ku o gi o ctf pcm² u
 d u² i gu n \hat{e} o cvqnev j q| pcn⁰ C x^a fcm co gn| gm r \hat{A} qk \hat{A} n \hat{A} d»n xci { v \hat{A}
 | qw ci i qfcm cunqf^a ud»n hcn \hat{A} vcm o c o^a t u| kv \hat{A} ² tv gv \hat{A} v \hat{A} pgm⁰ J qn
 xcp c| cm \hat{A} tk r^a tv r \hat{A} k \hat{A} n \hat{A} . jqn xcp c| cm \hat{A} tk i c| fcu \hat{A} i k jgn| gv \hat{o}
^a n \hat{A} d \hat{A} v jqn xcp c v \hat{A} cn \hat{A} k j » A Rgf ki c| »v eum² xgm vngm gn u
 M \hat{A} gdgndgti ² xu^a | cf qndcp i qf qm \hat{A} f qw# Xku| qv c| qndcp c| ² r \hat{A}
 rvgndgp. co gn| gngv c i rgi pci {qdd ^a m $\hat{A}i$ o ci {ct mwwu| o kplu| vgt
^a m qf qw xcn \hat{A} i i^a. o c ku. o gi o clf ² x \hat{A} gf gm o \hat{A} xc ku h \hat{A} n \hat{A} km c
 o w \hat{A} n \hat{A} . h \hat{A} to^a n \hat{A} f km c o ci {ct l \hat{A} k 0 O gpp{ k o kpf gppgn r \hat{A} pp² pm u| gi² /
 p{gddgm jc M \hat{A} gdgndgti cm \hat{A} t \hat{e} vnet² nqu \hat{A} f k \hat{A} n \hat{A} # M \hat{A} gdgndgti ku wcnv
 t^a. o^a uqm ku h \hat{A} r \hat{A} gv \hat{A} v² m c n \hat{A} t² v \hat{A} jqn r \hat{A} pp² pgm o c c| qm c| $\frac{3}{4}$ u| gi gm
 co gn| gm c mww^a rku hrgo gm \hat{A} f² u u| gpv e² r \hat{A} ckv u| qn^a n \hat{A} m u co gn| gngv
 M \hat{A} gdgndgti cm \hat{A} t. co k \hat{A} t gttg o »f xqn \hat{A} o qpwo gp \hat{A} rku k \hat{A} v² | o² /
 p{gndgp. ² r \hat{A} rvgndgp. n \hat{A} v \hat{A} p \hat{A} d $\frac{3}{4}$ cm \hat{A} v \hat{A} uqndcp l» n \hat{e} o cvq|^a utc v n \hat{A} /
 u \hat{A} gw c l \hat{A} k pgo | gf² ngm u^a o^a tc \hat{A} J qn xc \hat{A} pcm c \hat{e} p² r l \hat{A} v \hat{A} t gi. c m \hat{A} v \hat{A} p /

d³ i c| fcu^a i k e² rntc n³ w³ w gi {² d dgtw^a |^a uqm Mrgdgnudgti kp^v /
 o² p { gk xku qp v qw^a n p c m² u f q n | q | p c m c l³ x p g n 0 ë C p { w i j c v c v p
 x² t P w o k i u l g v w < c u l g u² i g v w w r i o g i q n q n c c n q t c k x² i 0 C
 r g i p c i { q d d u | g i² p { u² i k f g² p k u n k x g t g n g f v g c | c p c i t d g w k o w u r g /
 m³ f² u² t g. c w f q o^a p { q m² u o x² u | g v m^a r q i^a u² t c c r² p | v g | g n
 v t v i^a n v v t g o v g w c r g i p c i { q d d p^a n k u p c i { q d d u | g i² p { u² i k f g² t g 0
 O g t v c | k u v³ p g k² t f g o p g m u^a o^a f v c | k f m v³ x v³ d e p. j q i { c
 x k i x^a n^a i i c | f c u^a i k l² i x g² u g x l j c t^a p n g t g u^a v^a n² r r g p c | c n k u
 v³ d d r g v o g p v g w^a v u² t v g v p^a n n w w^a p n e v c o k v x g t g n g f g w n k
 u^a o^a t c #

D g y r e p w e n c n² u d d k d q r f q i c d d n q t g r i v² v i² t g 0 C n² u d d k
 n q t o^a t k w x c p. c d q r f q i c d d e v g i { g n t g c | k f m o² j g t g l k f g M r g /
 d g n u d g t i k i c | u^a i c o^a t k u k i c | u^a i # C m q^v u c k c o g n { g m r² p | d g. e u c m^a
 w i { c p p g o e u g n^a n^a r² p | d g n g t^a n g m k v x c p p c m u o d c o k p v n² u d d
 o^a t v³ d d u³ j³ c p i u^a n^a q | v^a m o o g i v t v q^a m² t v² m³ n g v. x^a f^a c p^a m^a m^a
 c | k f v 0 F g x^a l l q p j q n x c p c | c u q n^a u q m o k n³. c o k n g v w i { c p /
 c m m q t A 0 p 0 t g^a r q r k s k m u q m x c i {² r r g p g i { g p g u g p i c | f c u^a i k u | c m^a
 g o d g t g m e u q t f^a q w c m d g n p { q o v c r p w n c x k i i t d g A X c i { j q n x c p /
 p c m c | q m c v x^a d d k o k n³ m c o g n { g m n³ A n w w r i c m c j g i { g m² u
 d p^a i { k r g t k t c v m o^a | u^a k n g r g v n g | v g m A G i {² d q t u^a i q m j c u q n^a t g p /
 f g n g v² u³ u | g i g k. c o c i {^a t v³ p g k r k n e p c v v² u c e² n h q p v q u^a i^a v
 v n k p w g M r g d g n u d g t i³ u | g i g k u g o x k u | q p { r i q u c p. u g o³ p o c i w n d c p
 p g o q n { c p p c i { q m c h e j c u | p^a n^a u n³ A n v p A u^a f^a q w x² i v n g p d g e u A /
 n g v u² i t n² u i q p f q u^a i t^a n^a p g o k u d g u² r k g. j q i { c e r c | c t i^a u^a u |
 x g n^a m n e r e u q n v d c p l q i q u c p n k r g j g v p g l v g p k 0 G i { n² p { u | g t u² i d n
 r e h e i { x g t | g w q t u^a i d c p. c j q n^a v o g p g v k e i v² p { r g i c n w w u l v² t e c x g w g
^a v p g o e u c m n² r r g v g u p. j c p g o c v g u p g x g i² u t² x² p d k q p { q u o² t v² n k i
 c x c n^a u^a i d c p k u c j q p x² f g n o k v² t e c h e r f c w i³ 4² p g m g n^a v^a u^a v c v r g
 n k c f q w o g u l g o g p n w w^a t^a r k u e² r n e v u | q n^a n³ u³ u | g i g m g i {^a n c i^a p
 p g o x q n c m q n { c p p c i { q m o k p v c o g m m q t^a t c c r k n e p c p { k p { q o q t A /
 u^a i d^a n² u r g x g t u^a i d n k u v² r i^a m q |^a n³ j c p i w e v u^a o^a t c c r q r k k n e k
 g m p h e r g m c | q n e v h e r p c i {^a q w^a n 0 e² O k n q t u | n² d g p x c i { v p m c o k p f g p /
 p e r k n g p {² t p g m c m m q t p g i² | u |^a x x g n p² | | A m r c m q^v k o n e v i o f^a l c
 J g t e | g i H e t g p e 0 C r t q r c i c p f c g | v c n² r g m c p k r k n e p c v v^a x^a r e u | v q w c
 n k c t t c. j q i { c r² p | A i { k³ u | g q o n² u w³ p M r g d g n u d g t i c m q^v u c k d c p
 l g r i³ 4¹ g o g i c x^a n^a i g i { k n r g i h d d q n^a v 0

M r g d g n u d g t i w f v. j q i { g | v c r t > d^a v o² i n k n g m^a n p k u c |² t v
 j k f g i x² t t g n x^a t w c x l g m c r c f^a u^a v 0 U l g o² n { g o n g i c i^a d d h e n h e n /
 t³ 4¹ r g p j^a f^a g m h q t o^a l^a d c p o c r g o q p f^a u w³ p k u u | k p v^a n p c p
 h q i r m q | v c w c c n³ 4 x² r g o² p { v c g i { u | g t c | v v t l g u | v g w^a m t > r c. j q i {

c x²i rgi gu xkuu|cxqpw^au i qpf qrcv^axcn hqi rcmq| km o^aunqt o gi c|v
 ¶¹v^m jqi { rgu| c nkdqpcnuq|^au n³4 rqpvc u o kpf gpnk v rg x^atv
 kphqto^aek>v k^ap{¶¹uv0 C m¹h³4f k h rgi c| qrcu| rcrqnev ku 2^{tf}gnng.
 o kv eulp^an o ktg n²u|^aÄn ëGwt>rc rgi f lpc0 knwudd m¹wu| o kplu| vtgi 0
 Gmqt v³4v²pv. c vnet²nqu^ai x^an>¶¹|^apcm m¹wd k^a¶¹uc kf gl²p. jqi {
 c o^at go ¶¹gw p²xvrgp ekmgung c ëj kfi m¹Äk xk^ao tgo gv²vⁱ cl^ap/
 rjwc r²p|^aÄ {o kplu| vtgpgm o kpv 3/4rgvu. qr v0 knc go dgtv. cnk vk^aq/
 p¹^atc c|v ku nkcr¹rc. jqi {cp rjgv c| cf>hk^agv²uv c xkcy c vcrp
 go dgtk²rkgl gvgn¹3⁴2 dgkncvkl0

C|qm kuo gv²m v rgi ngx²udd². cnkm gj kw²m xci { hgn²vrgl v²m
 jqi { o quv o^at x²i rgi gupg xkuu|cxqpw0 O²i c jcnw Mgdnudghi v
 ku qn| pgj²| gm¹r| grpk c u| gi gfk nkr v o²n>¶¹u| vrgu. o qf wcrvcp
 eugpl²dgp# J qi {cp rjgv gw xqpc hgn²vrgl pk jqi { c| 78 2^xgu. 2^{rg}v
 gt u. gi²u| u²i gu. gu| o²mv n h v³4v ci {Ä h¹th¹Äd>n gi {km pcr>n c o^a/
 ukntc eugpfgu. go r²nglpgm 2ⁿ p{wi f¶¹cu rgu| A Kc|. jqi { p²j^ap{ pcr ki
 nre²tnqf qw c|cn c vtxxgn co gn|gv eugpfgu 3/4gi u²i g kf gl²tg vgw
 h²rtg. jqi { v0 k0 jqi|^ahqi xcrco gn| km t²i>>v gn qpf qrv v³4v²pgk o wp/
 n¹l^apcm nk qri q|^au² jqi|. co k h²rk/ o g f ki Äv rgw xqpc c| gm²mgf
 p{wi cnqo h²r0 Fg c n³4 xgvrgp jcu| p^a¶¹u x^ai {c o gi kpv i| | 3/4v<
 c v³4v²pgv¶¹u jgn| gw kuo²v c v³4v²pggo/ eulp^a¶¹uv x^arcu| vqw. vto²/
 u| gvugp c| cmqt k r qrk¹ck jgn| gvpgm o gi hrgn gp0 Gi { r kncp vki
 ugo n²vmgf gw eddcp. jqi { o w¶¹l^atc c j c|^apcm o²i o ci cu r qrk/
 vnk^a n¹udcp ku u| Äm²i g rgu| 0 Gmqt go ¶¹gw gi {km dk cm cu j ¶¹k²/
 pgm jqi { cmq¹v²tc xcn> cmem cv r¹vc c dgnÄ {o kplu| vtg o wpc/
 n³4dgp< o quv o^at c x^anq| qw n³4 Äm²p{ gm n³4 3/4v j cvm cucp
 gn ddtg ugi ¶¹j gv² c o ci {ct x^atqk r tqd¹r o c 2^u c| Cn³4f/n¹tf²u
 o gi qn^au¹0 Fg vcr¹p o²i v³4dgv i qpf qrv c m¹ÄÄ {k r tqd¹r/
 o^antc0 O kpv c 2^{tg}| v² xqpc. jqi { c| cpp{ktc x^atv jcto kpecu
 2^xgn dgp c o ci {ct m¹Ä r kkn¹tc uqtuf 3/4v hgn¹uqm gr²i| 2^{ug} x^at0
 I qpf qrcvkl¹i^adc. vt xgkdg o²n| gp dgrxkl¹i ¶¹v Dgy rpg Kux^ap. cnkv
 Mgdnudgti p²j^ap{ j²vgn c rgo qpf^au w¹p hgmgtugw u cnkxgn
 n³4 3/4ng u^a p²f²n¹v. jqi { i u²rgun³4 rwdrkcu| vnk^a vx²ngp{u²i dg ngf.
 cl qpdcp pgo hqi c pcrk xti { c r^atv r kkn^a n¹tf²ugkxgn hqi rcmq| pk
 jcpgo n¹v. gl gnv n v³xrhgnx hqvqu v²o^axcn< m¹Ä r kkn^a r tqd¹r/
 o^amnen 2^u c| Cn³4f o gi qn^acvcp n¹tf²ugkxgn U xcn>dc. c o^at rquv
 j wo wu n³4gv dgp 3/4u| gi { l³4v ekmgm pci {qdd²u| v m¹Ä r kkn¹xcn
 x^atqur r kkn¹xcn 2^u c| Cn³4f n¹tf²u²xgn hqi rcmq| pcn0 MÄ r kkn^ack
 vpw^ap{ck uq^ap uqnev hqi cwc n¹¶¹{x^vt^apcm gi {km f¶¹u²v c Fkg
 itqug Rqrkn fgt Gwt rckuej gp Mcdlpgwg e¶¹ pgi {xgn¹3/4gvu uqtq/
 |cvq. co gn| gv gi {km dgrkpk r¹qi cv¹uc cmem^axcn c rqtqu| nqto^ap{/

w'n ncrqw cl^apf²ndc0 Kicwc c vskqm c xkfi ock^amco l²thckpcm
 ulgngok ncrceks³uc ngw/g nkgdd. xci { c xku qp{qm ngwgm cpp{k²c
 dqp{qmwncm jqi { xgn²Am c| go dgtk²i o^at pgo wf o gi dkm|pkA
 X²i An ku Ai { hglvvg o gi c o c i c u^ao^atc c r t q d r²o^av jqi { c vgej/
 plnc pci { u^atp{cni²u^v c r q r k k n c²u c n²4 i c l f c uⁱ pgo wfv n²4 g v p l 0
 Co kd n kuo²v eucm c| v c t²i k n²4 g v n g l v g²uv xqpv ng. jqi { qn{cp xgl/g/
 v ntg xcp u²Am²i Am cnkm c|²ngv Al n²4 g v g m²p{gk pgo eucm o gi/
 2²tkm j cpgo c| qnj q| hrgo gmgf pkku wf pcn0

Gi { km pci { i qpf lc xqiv jqi { cmq²uckv c xkfi x^an²i qtni pl^a/
 dcp ku o gi x²f gm g| g0 eO quv c xkfi x^an²i dcp o^a f²vc o^at gn| rgi o
 o gi kv c pci { ngmk | t| c x c t. uqm c o gi pgo hqpvqv dgu²f. u| gp/
 xgf²n²v n h v²4w nklgrgp²u u k{gp cvo qu l²t^adcp n²v l gtugp »xc/
 nqf pwpm ngm jqi { xgu l f gm gu i^au| cnef^au pg n²4 g v n g l²m dg.
 jqi { c tqo dqm^a tcf cv dg pg v²4j gugp c o c i { c t o xgn f²upgm
 xk^ai qu ngtvlkgd. co gn{ v²tgp gi {gf²Am xcp xk^ai| »²ngv gddgp
 c| qtu^ai dcp0 U| gtgpeu²tg. o kplu vgtu²i g kf gl²p ukngt²Am qn{cp
 gt vctv²mqv i { l v p k jqi { c|^avo gpgk pgj²| u²i gngv o kv gp
 pci { qdd tqo dqm²u p²m²no gi Au| j cw n 0

Pci { gfi v²vng xqiv jqi { o^at ngo qpf^auc w²p Dqi fcp/Fwlec
 tqo^ap gi {gvgok vcp^at c| gi { km gt ugp o c i { c t f c n^a Au^ai dc. c| Wpk/
 xgtuw/dc. ekmgv f²v Mgdgnudgti mwm²Ar q r k k n l²p cm gtgf o²p { gk n
 u hrij f²vc j qphk²tuck hki { gm²v ettc c xgu l f gm g o t g. co kv c o c i { c t/
 u^ai gmgpu²i gk u^ao^atc g| c e²nwf cvqu²u pci { u| cd^au² mwm^atku o wpnc
 lgrgp0 L» rppg o^a f²lc o^a c r r q u c d d c p v²l²nq| »f pk c o c i { c t v²4gm²
 x²ugnt n o gtv Dwf cr guv²u Dwmetguv²4²4m xgtugp { v²tucm rgu| pgn0 M²t
 rppg gndk cmqf qwcp ngo quqn{qi pk Mgdgnudgti cmq²uckv. co gn{ gm
 gi { 2²dn²pv ku ec r t q f w m f k h g l n f²u²u c i c l f c u^ai k f g o q n t^aek xqpcn²dc
 xcpem dg^an²xc i 0 C xqiv o c i { c t m w m u | o k p l u v g t c o c i c j k c v²u^a/
 pcm²n. c p p c m v k n e k v c r r q u c p k u o g t c r q u q n v g t o²u| gv. cnk²tvw
 j q l^a. j q i { c r g i p c i { q d d e u A i g f²u k f g l²p k u c o c i c u d c g o g r i g c r n i
 n g n g v 0 M g d g n u d g t i² 3²4²Am c p p c m j q i { c | g n g p u²i l²rpkn l f g w c o c i { c t
 m w m A h²4²p / i q p f q r v g t g l²v n 0 l p v i { k i c | q r k c n²vc v²4 g m x²ugk 0

Uqnev hji rnmq| vvc gi { c| qrcu| qm u^ao^atc vgtxgl gw gn cf^au/
 uqtq| cv i qpf qrcv0 N²wm o kn{gp c r r q u c p u o g m q t c o g i²v²u g n
 v p w o^ap { q | v c c h u e k o w n 0 G o n f v g w²Am o^at c I g t e j k c / d e p o g i /
 lgrgpv xcn²u| f²p rgi g| kf v²lv nrgvngl gw pci { u| cd^au² ekmi²0 3; 54/
 dgp c| K²kwq P c | k p c r g f k E w n w t c H u e k v c h g m²tv g v. j q i { v c t v
 u q p p²j^ap { g n c f^au v *w p c u g t l g f k e q p h g t g p l g + c h u e k o w u p c m n A h²4²k
 h r g i o c i { c t q t u^ai k²v²ngi²u²t r 0 G n u | 3²4 c t t^an xqiv u| ». j q i { c | g n /
 c f^au q n e v 3; 540 v x c u l^ap v c t v c o g i. c | q p d e p g r i q i r e n u^ai^atc. c r q r k

vknek xku qp{qntc 2u c| cnc qucdd gn nřu| Āngv u| Āmři guř2i2tg xcn»
 j kxcvnu|^a ucn c| qrcu| wcv u|tg j cnc| vqvc0 Pci { ngmguf² ugn
 nřu| Ām c hgnfcvnc< o2i j cřnřu^a i {^ap. p2j^ap{ rgteegn c nřvcu| /
 v>hc gn wku qrcu| Ākgtxgk ndgu| 2n0

f nřnř dcp tgpfnř Āk gt2nřgn f qri q|qw vqx^a dd0 Xcřnk v2ř ucp
 o q| i » o kplu| vřtkw t>n dgu| 2nř u| go 2nř2xgn nřeuqrvcđp0 Vqx^a dd/
 vřti {cřv rř0 c Tqenghngt/cncr xgl gv uř2i2xgn o gtv u| gtgvw xqpc
 c o2i j křp{| » qtxqunřtk 2u vřto 2u gwwř qo^a p{k křvř| gvgm hgnř rř² uřtg
 ugi 2nř v nřgu| nř4 3/4p0 Fg mř4 3/4gřp uqnev hqi nřmuj| qw c| Cřř4ř nřt/
 f2 uř2xgn0 Wqnu» j »pcr lckv. o křv o^a u xqpcvnu|^a uđcp o^a t řř wwm o křv
 dgř4nř4v m c u t gi {o^a u wř pđcp nř4xgng| cřř4ř k wcn0 C| gi {kn
 křgp Āl^a p nř»| vcm dg vřvř dg c j cřnřu dgvi uři euř^a k0 Wqnu» pcr
 lck>n c j cřnř dgnř4xgng| vřt n 2u qnck>n Mqt^a p{k U^a přqt xku| cgo řř/
 nř| 2ugk vřvcn c|^a m c nř j křngugdd cfvcqncv0 3; 540 u| gr vgo dgt gř| 2p
 U| gi gřgp l^a tv. cřř4ř k Āi {gmnř hqi nřmuj| qw uqm go dgtgn 2tkpřng| gw
 c x^a tquđcp 2u c vřp{^a nřp0 O^a t gmnřt pgo 2tg| vř o ci^a v l>n fg eucm
 cmnřt wcl qw j c| c. co kř p řř| c o ci cutc go gmnř gw0 Qwj qp dgvg/
 i gp p2j^a p{ pcr ki o2i f qri q|qw. o clř. co knřt^a nřc qvc pgo lcxwv
 qm>dgt 40^a p dgu|^a nřřvcw o ci^a v c kř0 u|^a o Ā dgi {>i {^a u| cvk mřpk
 nřtc0 Gn | gvgřp o^a t o gi^a nřc řř^a uv p{gtv. j qi { rctc řř^a u| dcp u| gp/
 xgf. co gmřgn nř0 nř v j2 ki hępl^a tv0 C| gvgv pgo řř u| qw u| nř{ qpcn0
 Qm>dgt 330² p. 2řvg wqnu» pcr l^a p f0 w0 6 »tc 42 rgtent o2i p{wř qf/
 vřp dgu| 2nř gvgv qrcu| qtu|^a i k Ākgtxgk n c j qn ô o křv řř wwm ô gn/
 cf^a u| uqtq| cvq v u|^a p f2 nř u| qw vřvcpk c hřuek o wut>n0 Pgo ku gi 2u| gp
 lřnřtc o Ākř. 6 »tc 67 rgtent o^a t j cřwv xqn< gi { j křngřp u| řř/
 tqj co x2i | gw c mř4 3/4pđgp gt vřnřgu. fg c dgvi uři v n o^a t gn | nři
 nři {gp i řřgw u| gtxgl gvgř0

Nřj gvgřp xqpc cñt eucm x^a | qřpk ku c| qtnř pu| gt gp o gi p{ kř^a /
 pwn» o gi f3/ddgp2 uv. i {^a u| v 2u t2 u| x2 vřv. co gmřgn c| qtu|^a i nř4 x2 nř/
 o2 p{ g. dci^a v 2u gngřp uři gi {ct^a pv. c x^a tcvřtwn nřeucr » j cřnř řř v
 hqi cfvc0 C| qtu|^a i j cřwv^a v c Oci {ct Pgo | gvk O Ā gwo euctqñđ dcp
 txcvřnř| vř m hgn o clř U| gi gřgp c Hqi cfvc křgo r nřo nřk vř l^a dcp
 j gnř| vř m 3/4 nř p{wř cřqo tc0 Mř4 3/4gřp hřngř vř gvgřp o ctf c j cřwv
 Mřgdgnđgti dgxpřwř uc U| gi gř x^a tquř dc. nřo qt u| k guř p. řř mř{ c /
 2u i {gtvř clř p{ o gngv. j ctepi | Āi^a u nřř2 tgř đgp0 Co knřt c i {^a u| /
 o gpgv o gi 2nřng| gw c Vgo r nřo / vř ttg. c j qppcp eucm t3 kř gi { / nř v
 2xxgn c| gn w c r^a nř^a lc vřv r qđv^a p^a m» cmřw» o kplu| vř c hřnřxcvř uk
 Āppř uři cmřw^a xcn c uqj c nk pgo cřk» đk cřqo u| cx^a v j ctuqi vř u| 2v
 u o gi nřpř wv c Mřgdgnđgti / j ctepi o2nř u| cxc. o gi kngv f2 u u| qt řř/
 vřvc 3/4 u| g c lřgřp řř x uqng| gt i {^a u| qn» u| řř2 v0 U o^a upcr c i {^a u| /

u|gtvct³u w³p o gi ng| f f^{3/4}w Mrgdgnudgti u¹qpv¹Ark ²rgv. co gn|pgm o quvo^at pgo rgu| x²i g 000

C| Au¹i qm dgn²u m¹h^{3/4}f^{3/4}p gnukcw³m c pci { jcnqvcw0 C m¹h^{3/4}f^{3/4}k rcrqm n^{3/4}Än m¹h^{3/4}p^{3/4}gpp c p²o gvgm²u qrcu|qm hqi remu| vcm dg/ jcw²ddcp o n^{3/4}f²u²pgm o²ncv³u³xci0 | tfngnu. jqi { gi {/n¹v p²o gv rcr c xqrv m¹h^{3/4}Ä {o kpu| vgtv rctgp³nc gn dgppg0 C| gmgxgl²udgp v²xgf vgm c r¹p {gi dgp uqm xqrv c| ki c| u¹i < Mrgdgnudgti m¹w¹Är qrk¹k/ n¹lc jcvj cw²ucp gr²dgf qri q| qw c o ci {ct m¹Är qrk¹n¹ pcn0 GndÄeuÄ/ vcm c uqmqf cnÄ h¹pqo²t|²m pci { cmuq²w²n c p²o gv u| gmgok²rgv ki c| dct^av^aw²n crk¹ o w¹n¹u¹i^axcn o guu| g j c|^alc jcv²tclp vÄn kuo gtw²v²wg pgx²0 C| qrcu|qm gnukcw³m dgppg c nk²v²rgu o kpu| vgtv³w³p o k¹lutq geeg| kqpcg⁺ c h¹uek¹o wu cmuq³uclpcm pci { o gi²tv l²v c| Äl O ci {ctqtul^ai gi {kmu| gmgokcv| l^a0

Mrgdgnudgti ²rgvo xg o quv o^at qw^am c v^{3/4}v²pgrgo ¹v²n u|²ng gnw0 Mqt^apcm²u o n^{3/4}f²u²pgm o gi ¹v²r²u²zj| eucm r¹vu|»rci j¹k¹p {/ | km c v^{3/4}v²pgvk rgtur gm¹k¹c0 Kc|. jqi { jcr¹r¹ »v o²i eucm gi { ²xw¹gf o Äv gr0 Fg o leuqf c ²xgm xqncm gl gn# C| »v o k²u xgnÄpm gi { Äw c| gi²u| xk¹i cpp {k o k¹pgpv^av¹u c| v c nqtu| cmuq. co gn| dgp Mrgdgn/ dgti o n^{3/4}f^{3/4}wc| k¹ n^{3/4}dgp dgn^{3/4}xgvng| gw gugo²p {gm m¹w¹Är qrk¹ck / rci qn|cp x²i rgi gugg r¹l^at¹v¹m jqi { c v¹ti {kci qu²t²v²ng¹u o k¹gp hgn/ v²v²rg cfqwpcm v²u| km rgi h^{3/4}l¹gdd cttc n¹gm v¹nk¹pv²wgn r¹gppÄpm jqi { c nqt¹v¹ tucm c| gmgphngm²u dct^av¹qmo²i rgi pci { qddt²u| v²rgn0

Mrgdgnudgti pgm c v^{3/4}v²pgrgo ¹v²n u|²n¹t n u cppcm c o ci {ct pgo|gk²rgvdgp lwvcvq w u|gtgr²t n nk¹qtq¹w x²rgo²p {g xqn0 P²n/ m¹h^{3/4}j¹gv²gpp k¹v¹o²p {pgm vctvc gl v o k¹v h¹rglddxkgrk h¹two qv c| go dgtk²i ²rgv²dgp.fg ëo²i ku dcl c|. jc gi {/gi { qtu^ai dcp. gi {/gi { pgo|gv ngdgr²dgp vÄn^ai qucp i {cntcp n¹gm gpp²n c| ¹v²n u|²np²n lqi/ qtxqu¹vq ngtgupk ogtv gl cppcm c vcpÄr^aic. jqi { c pgo|gv pgo n¹r¹gu c| ki c| k u| gngnek¹tc. pgo kuo gtk hgn c lgngo gngv²u v²g¹gw²i gngv²u n¹o ci cum» h¹ckxcn²rgvÄndgp ki c| u¹i vcrpwn d^apkn0 D^at²p Mrgdgn/ dgti o w¹n¹u²rgv²v o k¹pf gp pg²| m¹Äf ggo²u nqtck gm Är¹u gngp²tg xku| qp {rci qucp dqrfqi²u v¹rgu²rgvpm vctvqo. o²i ku xcp xciro k dqtqi » j¹cp¹ wcv g uqtqndcp< c uqm ukngt gngp²tg²tg|v. jqi { c| ²rgvdgp nerqw gr¹kuo gr²ugm o²i pci {qp j¹k¹p {qucm u jcr¹r¹ w³p o gi hqi pcm uqmu| qtq| »fpk u o²i o clf c v¹o cf^auqm ku w²rci j q| l^atw/ pcm²tfgo gk n¹go gr²u²zj|0 W {cpeucm o ci c pci {qp vcr¹ncp jcv¹/ tq|vc o gi c| ¹t>k jcr¹j cvcr¹pu^ai m¹k²tkwo ck0 C| ¹t>²n jc n^{3/4}p {xgk o^at pgo h¹q¹icv^am ku ut p. ëjc gi {²pk²i²pgm²u o xgkpgm r¹p {gi.g. jc c|. co k o w¹n¹u¹i^apcm nk¹pv²guu| gpek lc xqrv h^{3/4}u| ¹k>f¹qw c pgo/ |gv x²t²dg. jc u|go²n¹g²u o n^{3/4}f²ug. o k¹v jcvcm cu m v¹o d. dgr/

2r Ān c pgo | gv hgn f²u²pgm uqj c o gi pgo ^am» 2r ¶ngl²u²dg 0 0 0 O kpj c eucm c ucl^av cmq» o wpr^au^ai^apcm 3/43/4m² 2n go r^an^av j c^v tq| v xqpc o gi #

Gi {km wwf^lc. xqrv o wpr^av³tuc. 2rgv o x²pgm vx^addhqⁿ(v>wlc J »o cp D^akp^v hqi rnc 3/4u|g p²j^ap{ u| »dcp Mrgdngdgti o x²pgm r²p{gi²v< ěPci { nvcu| v»lc kf gl²p 2tng| gw. o knqt c pgo | gv pci { 2rgv| c^r ij ctec w^ap c o ci {ct o xgn f²u c tqo r^au Ā^ap. u| gtxgl gv^k 2u kp²| o²p{gk c vgn²u j cp{c^ru u hgr² j c^rcf vcn⁰ Gro gpv. co knqt c| kp²| o²p{gngv ukng²Av c| 3/4u|gqo r^au w^ap v³o cf v tqo j cm c| d»n nko gpv²pk. nk²r ¶gp²g. o gi gt u²gp²g u co knqt c| qnev c| Āncpm gi²u uqt| c^v xcn o gi u| gt| xg. x²tvg| v² hgn Ācdd xgu| gf gro gmgⁿ hgp{gi gv kf tg⁰ Dgv²rgp Kw^ap c| gm²4²3/4v txcv²c o gngw gl v Āi { hqi c^r o c| v o gi. jqi { c j^a dqt^a w^ap c o ci {ct m^av²c o kpf gp n²k²v Mrgdngdgti tcmc rg u^a ncr²dcp c o ci {ct m^av²c v c| gp{²u| gw n c| o xg o gpv²g o gi. co gn² r²gv x² vgw. jqi { c euq²nc vgt²rgv²# c| gn| c^rcf vcm jgn²dg ku qn{cp Āi o ci {ctqm p²gxngug²pgm ěcnk c o ci {ct v²4²pggo Vtkcpqdep gn| c^rcf v hqpc^r v r²gv Āndg x²xg. qw hqn²cu²m c o wpr^av. cj qn g²ci {v²m c| qm cnk²gv Vtkcpq v n²pm gn| c^r¶q² Mrgdngdgti c pci { gn f³4m 3/4u|gqo r^au 2rgvo x²v hgn² v³o cu| xc. v²4²rgv²¶xg. nk²i²u| ¶xg. gi { 2x²gf crw. c r²gi pci {qdd c^rcf^a n²qnev rgn² f²xg. gnc²¶q²w c tqo qncv. dg²4²3/4vg c t²ik ngtgvngv u Āi v²i c²dd ngtgvngv cmq²v w c l³k u^ao^atc⁰ Pgo euq²c. jqi { n²4²dgp c| cmq²v u²f²|^a dcp u| kp²g r²i gw⁰

Xgl gv i qpf q²vc xqrv jqi { Āi o ci {ct r²mgv hqto^a r²q. co gn² v²4²pgk j²xc²v² v^a v²tg| xg. c²ppcm u²¶^av x^anc²c. u| gn²go k² u i c| f²c/ u²ik v²tgp gi {ct^apv euq²^av o xgn< 3/4gtgl²d n xku| cu| gt| k² u o qf²gt/ pgdd^an hgr²r ¶k c t²ik v²4²pgk qtu^ai q⁰ G i qpf q²v²cm xcn²u²i c n o gi u^a m²wlc r²w⁰ Fqi q| qw c o^apcm c pcrk u| Ām²i r²gv²pgm ku. fg o kpf ki Āi { . jqi { c l³k v vctv² u| go gn w⁰ M^av²tr q²kn²lc pgo r w² v²p c o xgn f²uv xgu| k e²ndc. jcpgo c| gi²u| pgo | gk 2rgv. c²ppcm l»h²to^a p o kpf gp o gi p{ k^a p^a u^a v⁰ O wpr^alc 2rrgp gl^ancn r²w nk²/ v²gu o²tg²x² 2u 2t²v²m x²0 C j c^r r² v² »v gnr²v 2xgm o²i lqddcp nk² v²u| v²¶q²m c pci { cmq». c pci { Ā^av²go v. c pci { pgo | gv²gxgn go r²n² v⁰ C²nc u| ko d»n²o c r²w gi { o²ncv²pn r²i^a | q²v pgo | gv 2r²pk²nc²u^apcn⁰ Ogtv xqrv c|. cnk c r²gi pci {qdd g²g²w²i dgp i ki^a u| k hgr²cf v²qm x^anc²u^atc d²k²vc pgo | gv² v⁰ P²j c u| kp²g c| c| 2t²u²pm jqi x u^ao^atc v²rp c m^av²c ku eucm o^auq²f²epi Ā n²tf²u xqrv< o kp²j c gi²u| m^av²tr q²kn²lc eucm Ā^aĀi { r²w xqpc ettc. jqi { c eu²Āi gf²utg jcln» o ci {ct r²mgv u| kp²g c²nc²wm g²gp²tg ku u^atp{c^ru^atc n²u| / v²gu⁰ G| gp c r²q²v² n²p{ctq²f²km v²rp c r²gi lqddcp gn pci { gn f²gk n

h rgi Vtghqtv»n cnkv qn{cp pci {tc dgeu»ñ. cnk c|qpdcp o²i ku gnu / uqtdcp tgu|qtvo wpiñv x²i|gw o¶ Mrgdgnudgti pgm o^at c nqtu|cm ku. co gn{dgp o nñ⁴³⁴w c u|qtqu²vrgo dgp xgw tgu|qtvp o guu|g v»m gp hgrfcvqnev lgrñw nñ0 Ukw ³pnñp{grgp»ñ gi { o^aukm p²x qmñ gnñpm c rgi pci {qdd o ci {ct². U²ejgp{k Kwx^ap². cnkv n c nkgi {g|²u nqt c cpp{ktc gmep{ctqf qw u cnkpgm gu|o²k wwlcf qpnñrrgp c xkñi / j^adqt»p{qo qt»ñ i ckw^²p²n²mki c|ktgpckuucteg/wnev0

Mrgdgnudgti ku c rgi pci {qdd o ci {ct rgi j¶kxdd vcp¶w^ap{ck nñ⁴gv k nñ⁴² vctv|qw0 G vgnkpvgdgp nñ⁴pdgp gi { p²|gvgv xcmqv Dgv rgp Kwx^appcn cnk d^ato gpp{ktg d^ao wnc Mquuwj Nclqu w^²pk u|gn²o²v. c o ci {ct rrikknck i qpfqmuf^au pci { o guvgt²pgm U²ejgp{k Kwx^apv xcmqvco èOquv c xkñi j^adqt»ñ vevu|t»ñ lc p{qo^ap. ô ¶lc ô o gn{ c vñ⁴v²pgm k Oci {ctqtu|^ai qv o gi ugo o k¶fwg. jqi { g|gn gi {»w hñk²|g c vñ⁴v²pgm k o ci {ctu^ai rgi o²n{gdd gññ⁴evk²u v^²tucfcm k x^an^² u^av ku. Àtc²nñ v o lpf c|qndcp c nñ⁴v²i gndgp. i qpf qndcp. ³p/ o ci wpm o gi tghqto^añ u^a pem wi {cpc|qp u|ñm²i²dgp. o gn{ v gnñ⁴/ vñ⁴g0 C|qm c x¶ km co gn{gndgp c o ci {ctu^ai uqtu²tv i ³⁴t f³⁴w00 o c c xcn»u^a xcur^ape²n^adcp vcr qupcmtclwnñ

Mrgdgnudgti gv U²ejgp{k crñlc pci {qp uqnev hqi rñm|vew0 Pgo / eum kvcwpcm nñc^au^av vwg c V³⁴v²pgm k V^atuwcv o wpcñ rtqi tco o / l^adcp rgi gv x². jcpgo o ci c ku vñ⁴dlu ³⁴ o gi go rñng|gw dgu²f gkdgp²u ekmgkdgp t»ñ0 Mxgugp²tg|v²m cpp{ktc^av lrgpv u²i²v. nxxgugp hñvew²m cñqt c dw|i cño o cn c U²ejgp{krtqi tco o o gi xcn»u¶ / u^av o kp v c vlcqpk nqtu|cm mñw|o lpu|vtg0 C o²n{ ³⁴u|ghñ^ai²uv o^at c nqt^²tucm ku²u|tgxgw²m²u jcp i q|vew²n0 T^ao wewcm jqi { o^at Mrgdgnudgti crri qpf qñv ku. co gn{ c o xgn f²upgm c pgo|gk²rgvdp o lpf gpgm hñ⁴³⁴w^am» hqvqu^ai^av jkf gw. wwlcf qpnñrrgp tqnqp c U²ejgp{k/h²ng nko xgn go dgth m i {ctcr¶ u^a pem nñ⁴gvñ / o²p{²xgn0 Fg xcpcm d u²i gup gi {²d nñ⁴³⁴u rqpvm ku< c o ci {ct rct/ rci u|ñm²i rvgkd n xcn» nñkpf wñ u. c nñl fgo²p{g|²u d^avtu^ai c. c nk xkgn dp vcnñqw rpf Ægv. c| kmñ km p²mñ xcn» u|go rñrgv u d0 C rgi hqvqucdd o²i ku o lpf ngw lñp²n c| gi²u| pgo|gk²rgv e²ndc/ x²vrg< rtqi tc tqo lwn jkñm vcp¶ uwm cñl^adcp x²xg nkgtlgf v o k fgp rtqdr o^apñc. ²vgn g|²u²v cf v rñvñm o lpf gp hqvqucdd w/ nñ pen0

C| gi {gvgp rñp{gi dg x^ai » mñ⁴pdur i tg Jtel gi Hgtge vññ» ³⁴u|gj cuqpnñuc wcn0 Mrgdgnudgti nqt c klñ^ai^a»n nñl f xg c o wpcñ. c nñ⁴gvñ²i vñgnñ²u o gi u^amqwc xqñv o¶ U²ejgp{k v D²eu gnu xk t²v. nñmkuo gtgv hqto^anc Oci {ctqtu|^ai gn o wpiñ u^ax^a0 Gi {²d/ nñpv qn{cp uqndcp jcuqpnñqwcñ< o lpf ngw lñndgp gi {»wo nñ⁴³⁴w

c i {cnu|trvku l>|cpu^ai o gngw c u^atp{cn> hcp^v|lc= o kpfngwgp
 ul kpv o kpf gp^a vo gpgv p²m^an wf^vm c| cnetcvv eugrgm²u^a v^ahqt/
 o^arp^k= o kpfngwgp ulgtgw²m c ul²rgv. c o x²ul kv u v jcuqprf|kvcwm
 gi {o^autc c ërc|ctr^audcpⁱ ku öVgu²m o gi p²|pk c N^apej kf cv< ô ¶|lc
 Jgte|gi Hgtpe ô tqrrcpv flcf crf|kxm c Fwpc n³/4 gr²p. nuqnu^a rku
 qtqu r^apqm Dwf^ap ku Rgungp ku ô o ktg xcn> gl A00 c mwm^atc pgo gi {²d
 o kpv l²p{ |²u 00 C| cp{cvgt²u|gv ku t³/4 v³p l²p{ |²ugp v³/4k c hgl²v.
 o kj gn^v gi { r kncpcvc o gi hgrgf ng| km c| ²j u²i t r³ C r^atj w|co qm o²i.
 vx^add ul crqt¶|j cvqm rpp²p gn0 ¶| { uqncnpcm hg^vpv j qi { Mrgdgn/
 dgti h rgi ²rg^vpgm wqm> ul cncu^adcp ²r²g^anv gi { qn|cp o q|i cno/
 pcm co gn| c| Cn³/4f n³t²uglpgm o gi qn^au^av v|vg nk e²mn c|²v c|
 Cn³/4f²v co gn|pgm dqrf qi wf^au²tv U²ej gp{k ku cpp{k v j cteqn0
 U o kpfngw lAm r^an^al^av x²i ki n¶|²v²m c ul ppk pgo cnet> v³o c/
 f^auqm c nleuk{gu²i ²u²tv gm gv²u²i gngp x¶|kqw j cteqn0

M²v²i vngp. j qi { Mrgdgn dgti c vlcppk nu²ul cm r qrkknwuck
 n³/4 An r²ngndp rgi n³/4 gr²dd^anv U²ej gp{k gi 0 C pci { gn f r²rf^alc
 gi {²dn³pv ku hji²nu²p{ rgn³v rgi o²n²ki^a v j gx¶|gw0 O kpv j c^ancpf>cp
 c U²ej gp{k v n nk v|³/4v gu|o²p{gm r²dgi vgm xqpc gn vg. o kpv j c
³/4pw^acvcpwn ku U²ej gp{k i qpf qrvk^al^ai c uwi cm c|v xqpc tcl/
 ul gt gp i qo qn|i> vgxgi i g^vugk0 O kpfngwgp c eu^auqm c o c/
 i cur^aiqm hgr² v³/4vgm Mrgdgn dgti o^at eucm c|²tv ku. o gt v o^au k^ap/
 dcp c vlcppk rctcpeuqm pgo gpi gf vgm ul cdcf cdd o q|i^au0 O kpf/
 ngw lAndp f qo k^anv c jkv ²u c| cnetcv0 Ver^ap o²i cddep ku jcuqprf/
 vqwm co kv h rgi Mrgdgn dgti pgm cpp{kul qt c ul go²tg j^ap{vcn< c
 dgeux^ai {dcp0 Fg r²j gv²g pgo guggd. lqi quw^aedd dgeux^ai { . o kpv c
 pgo |gv²tf gngkpgmu| qn^arvCA

Gn²t xqiv c v³/4^vpgk o ku|k³lvn0 U²ej gp{kpgm ô o kpv cmer/
 o kci t^ao wvcwm ô gi { vgrgf pgo |gvv ngngw hgr²dtgu vplg.
 Mrgdgn dgti pgm r gf ki gi { o gi cr^a|qw. ²rgv²gv u²i gk v n l>t²ul v o gi/
 hqu|vqw. v³/4ntgvv pgo |gvv ngngw o gi i { |plg ctt>n j qi { ²rp
 n³/4ng^au²i u c| ²rgv pgo r²j gv r w|v xgi g^vrf u. j cpgo gi {
 v³/4^vpgvrgi nkcrcmw n³/4gr²gw²i o²n>u^ai vrgu x^ancif uc0 C|
 wwf c| gngul vgw rctcf leuqo v cnetvc xku|cr³/4pk c uqtu>n c
 mwm^atc gtgl²xgn fg gddgp c mwm^atc dcp. cj qi {cp Mrgdgn dgti
 hgr²qi v. dgppg tglv |vgm c pgo |gv² ²rgv gi²ul²pgm ³/4ul gu hqvucdd
 t²ul o gi p{kx^apw^auck ku. c r²j jcto qpkwucddcp ³/4ul gqrcf xc c| gi {g/
 vgo gu go dgk o xgn f²u Ai {²xgn0 lgn²o | ²rrgp g ul go r qpv>n c|
 gi {km ³/4xcn²o^auc< Vcr^amu|vo mAn³/4f³/p ku v³/4ld o kplu|vgtgn cnkm
 c|v o qpf^vm j qi { tgu|qt^vwm tgpfdgp xcp. c pci { o w^an^v c| gn f³/4n
 gkx²i gi v²mu pgnknc| ³/4³/4m³/4v nkpeugvngm vx^add cf o kplu|v^apkw0

J qi { kki {ngo 2p c| kn{gp go dgtgm ngmk p{wi cm^a# i p xcrcj qi {cp o^aun²pv r¹vqo c fqi qnec d^ato gttg p²|gm euwrc rtqdr^oc. euwrc hgrfcv. co gn{pgm o gi qrf cwrpu^aic o kpv ul go tg^ap¹u o gtgf hgr^o0 | u c rtqdr^oa m uqneu^ai^axcn ul go dgp qw^amym c| grfi vgrgp gt m nfi|» 2t|2u² xgl0 G| U²ejgp{k rmg. gl c U²ejgp{k uqtu# I {3/4 fpk rtqdr^o/ o^avi²pk qw ku. cjqn o^auqm o kpf gpv tgpfdgpr^xpgm wfp cm 3/4u|g/ ul qt¹qvw hqi cmen fqi q|pk c l3/4 u^ao^atc u n3/4 dgp gnv tpk c|qm ntks/ n¹l^av. cnkmpgm^a nfi|nci qu l>|cpu^aic dgm ul^atc|u^ai. c| »xcvqu^ai o gl²dgp vgw|gni vgj gvgvpu²i. xci { c rgi lqdd gugvdgp i {>i {1/4/ j cxcrcp rnpf Argj k²p{0

Cddep ku jcuqrf¹qwc m gi {o^auj| . jqi { ô c n3/4v ul cxckcn ô go r¹m¹ vku|c l²p{g p w²p p w. co kpv kf dgp u v²tdgp v¹xq|qv0 U²ejgp{k uqm|qt nktgl|vg dk cnqf^au^av jqi { c| kf ki c|v ul qn^ancv pgn0 Mrgdgnudgti ku p{wi qf vcp p²|gw c mwnAr qrknc jqu| Arg¹tcv¹ x^an¹l^apcm x²i u ngu^ao qrf¹uc gr²0 C| gnu gkuo gt²ugm gi {kn²v² rrgp xqrv rqrknc k gmphng. I 3/4 d3/4 I {wrc p{Avqc^av c o^at jcmw^amco / l²tk¹pcm co knqt gi {km ul gi gfk dgu²f²dgp go rgi gwg. jqi { ëo 1/2 n. xqncm nku go dgtgm nku kptknuqm cnkm g l²tk¹pci {u^a v pgo cnet/ v¹m xci { pgo wfv¹m 2²v²ngpki G| { o^aukm *ul qrpqnk+ dgu²f²dgp o gi go r¹ng| gw ctt>n c| »tk¹uk mwn¹to wpr¹t>n o gn{gv ëgl gt o gi gl gt knqrc hgr¹nfi²u¹xcn x²i|gw gi { uqnev i^apeuqrv rqrkcnw¹. u hgrj|v. jqi { c| Crt¹4f²tv j^atqo 2xul^a|cf cxcw pgo vgwgm cpp{k. o kpv c| wqn> v¹gn²v 2xdgp0 G|v r gfk gnu uqtdcp Mrgdgnudgti pgm rjv gn¹u 3/4pki0

J co ctqcp jcr¹rc w²p vku|vgn k o gi tgpfg v²m c Mrgdgnudgti/ nk²nfi²uv. co gn{pgm gi { t²u|g o c o^at^a mcpf>»c c rctncv gpk o Avgo / dcp p{gtv grj gn|g²u0 O²i c|qm ku. cnkm gi {2dn²pv ki {gn|vgm ul^ao qp / vctvcpk cmqv¹uck²u ngl fgo 2p{gl²ugk. gr¹o wncm c| 3/4u|gj qtf qv cp{ci dgu²f gu i c| fci u^ap²u uqnr²gr²i²p0 C r¹vqi c>m ëul kpv gn¹ n¹dwnf c| gu|o²m²u cmqv¹uqm v¹o gi²v r0 C rgi o²n{gdd dgp{qo^auv gddp c| gi {Avgudgp vto²u|gvl gt rgi c|qm c| cmqv¹uqm 2u v¹4gm¹ x²ugm vgw²m co gn{pgm Mrgdgnudgti o x²u|gv qrkkn¹l^axcn xqncm ner/ euqrcvdcv0 C jcv¹cu cp{ci ul go r¹ngv gp o wvc. ëj qi { Mrgdgn/ dgti gi {kn²g xqrv c|qp pci {lckpm rgi nk^an¹ddlckpcm cnkm pgo|gv¹pm ul gtgpeu²vgp uqtu^av^aul gp^xfg. gp{j¹Av¹uv ul kpv go dgthrgvk gt xgn ngt gu|v¹nkvo wpr¹dcp ngt gugm²u vcr¹ncn0

C| grj wp{v>n c o gi go r¹ng|²ugm go r¹ndgu²f gm ekmgm gi²u| v¹o gi g lgrpv o gi 0 G| gm m¹3/4p xcunqu n¹4gvgv v¹4ngpgm dg0 J co ctq/ ucp o gi crenw c Mrgdgnudgti/go r¹ndk¹qu^ai. co gn{ n¹4An c| grj wp{v dca¹ck²u vku|vgn k v¹o 3/4Avgn0 C dk¹qu^ai e²rc xqrv gi {hgn c Mrgdgn/

dgti /u| qdqt cncr l^v dk vqfcpk o^a uhen hcvn wf»uqm 2u o x²u| gm² xgnf² pklwem c l^a u^a xcnc| grj wp{ vo x²vgl gp c xqpcrp hqn{ vcpk0

C| kf m hqn^a u^a dcp d xgp o gt² Angm hgn cmem cm co gn{ gm Mrgdgn/ dgti pgm co Ai { ku o kpfki grxgpgp 2n go r² n² v Ald>n 2u Ald>n hgtci {qi/ cw^a n0 3; 57/dgp cxcw^a m hgn u| gi gfk uf|go r² n² v0 Wi {cpgddgp c| 2xdgp o gi lgrpv c o wpmkd>n 3/4u| g^a n² qw dtgxk^a tkwo < I t>h Mrgdgnudgti Mwp» rqrkknk jkxcn^a uc0 C D²euk Oci {ct V^{3/4}v²pgk k²v| gv gn euctpq/ n² dcp o^a tx^a p{ v² d² v j gn{ gl vgm gn go r² ng o gi 3/4 3/4 n² u² tg0 C| qtu^a i m² A² p d^{3/4} x^a tquckdcp we^a nev. vgtngv p² xgl vgm gn t>nc0 O² i c v² xqik I 3/4 3/4 qtu^a i gi {knnku x^a tq^a dcp ku wecrgpxg² u j kf gwko r² n² v0

U co knqt 3; 59/dgp U gpi {3/4 i {k Cnltv gp{gtv c Pqdg^a f|cv. c| gi² u| oci {ct n² 4 x² ngo 2p{ Mrgdgnudgti go r² n² v k² |vg. fg uqncp xku| ci qpfqncm c uqm i Ap{tc 2u i^a peute ku. co gn{gv cpcm k² gl² p c| 2n Mrgdgnudgti pgm gn ngnv u| gpxgf plg0 Cnef vcm lgru A² u^a i f>»m cnkm w>ri Ecpqu^a v l^a twm u dqu^a pcvv n² tvgm Mrgdgnudgti u| grng0 2/ v n c xleem² v² o^a x^a vq| f|qw ej cndkn>i k² 2v^a. c rc| ctn^a u x^a fl^a 2tv ucd0 f|og. c o xgnu² itg hqtf|qw r² p| xk² i tcu| >n> o ci {ct fleu u² i dgp v² t^a v xku| c# Cuc lw> 2u c n² 4 x² ngo 2p{ Ai { 2tg|vg. jqi { c o ci {ct wf>u/ pcm lwqw Pqdg^a f| c o ci^a w>n 2tv² f gi {2pk 2tfgo gp hgn^a vto 2/ u| gv u gtgf o 2p{g 2u dggv| 2ug xqiv Mrgdgnudgti wf^a qo^a p{ rqrkkn l^a / pcm co gn{gv gl c j uku r² ngm c rgi o quv^a dd xku| qp{qm n² 4 3/4v. grgp/ ^a n² ucn m^a f xg. oct> i A² p{ 2u d^a p>» rnkukp{ r² u n² i² tg² dgp k² f|qw gr0 Oci c c nk^a v² gw wf>u ku f|{ hji c hgn< gru A² c Mrgdgnudgti nqrqtu>l^a jqi xgl ggv jqi { o gi n² 4 | 3/4lg. co kv v ng ncr qv0 ePgnk n² 4 | 3/4 jgygo. ô o qpfv ô jqi { Oci {ctqtu^a i qp xci {qm c| rgn/ n² pgm pci {u^a i c jqi qw kfg xku| c 0 0 0 O k² fki c| gni qpf q^a uckpcm rt>d^a nco o gi hgrpl0

C| gn| c n² qw o ci {ctqm ku i {^a u| qn^a m u go r² n² v ltku. hqn{ vq o gi A² w> j^a n² xcn^a r qn^a n0 C| gi {km nkugdu² ik o ci {ctpcm cnk kvj qp l^a tv. l>xen Mrgdgnudgti j c n² w² p ku c| c vrcu| vrcv. jqi { o² i o k² / fki gl v c p² xv jcmv c rgi v² / ddu² 3/4 go rgi gpk u u| kv² c| c dgp{q/ o^a u. jqi { co k A² 2tfgo rgi gu cmv^a u c mwm^a c vgt² p c vlcqppk nqt/ u| cndcp v² 4 v² pv. c| l>t² u| v gjj| c p² xj| h| fkn0 C| gi {km rgi/ hqvqucdd nkugdu² ik A² u^a i wpm c Rt^a ick Oci {ct J f|rcr c eugi /u| n² x^a m^a mco u² vdo r² uc gn w p² j^a p{ j>pcrrcn f|v< eOc o^a t d² x^a v gn p² f|vwm jqi { c o ci {ct pgo|gv c| ^a ncr nkgn² 4 v A² qp pci { r² 2 ugn jcmf v c nk^a | 3/4v e² n hgn0 C o ci {ctu^a i mwm^a nku grj kxcvq/ u^a i v c| gi² u| xk² i grkuo gk0 J qi { k^a ki lwqw gn c o ci {ctu^a i. c| n² u² i vgrp^a n Mrgdgnudgti o wpm^a m^a u^a pcm j c j c vcrp 2tfgo gk U co knqt c hgrk² nk gn| c n² qw o ci {ctqm o^a t xku| cv² vgm c| qvcpk

xgl gv vcpĀi {k hqn} » kcv o²i gi {u|gt vrf n} u|cxcmnen hqi rnc ¾u|g
 c jcl|cl¾wgm u^ao^atc Mrgdgnudgti mwmĀtr qrkkn^la pcm r²p{gi²v<
 Pci {jcxmk dg^an^lqwaⁱwpm c| ko r²tkwo ¾u|g|uwi qtqf^au^apcm
 o²t²v²n²dgp. o cvgt^k rku hgti^auwpm c| grxgu|v gw ic|fcufⁱk gt hqt^a/
 uqm u^ao^adcp. c vzej pkn^lw n uĀngv go dgt c| grxgu|v gw ngt m o gpp{
 k^lu²i²dgp²tg|v c vlcpcpk xgu|v²i gngv²u o k^lvj qi { gl gm c xgu|v²/
 i gm rgp{ i³/₄ ct^ap{vrcpu^ai dcp^amqwcm c o gi o ctfv cp{ci k gt /
 hqt^auqnj q|. n²v²i dgglv pgm²tg|v²m c lgrgpv²u tgo²p{vgrppgm c
 l¾k v0 Mrgdgnudgti Mw»v xc»uⁱqu pgo|gk k^lvrgo pgm mĀf v c
 I qpf xku²u. j qi { c| cp{ci k²t²v n²gmgn u|go dgp hgmgnug c u|gngo k
²t²v n²gdg xgvw j kvgt

M⁴dgp c rguk Fwpcrctvq² gm²u²Āv o x²u|k nkxkn u|qdtc.
 co gn{gv 3;5;0 o^alwu 380^ap Āppgr²n{gugp hrcxcwcn0 C| Āu²i qm ku²v
 hgnĀ^lqwa^m go r²n²v0 C| Āppgr²u²i gn w t¾k^l kf xgn gugw c| gu . ô
 c| c d^lk qp{qu o^alwuk gu . co gn{pgm o k^lfp gp eugrrlg ctcv²t ô
 o clf tci {qi »cp nku²v c pcr0 C o ku|knw rgnm gm Āi { x²n²m j qi {
 c vgt²ngp{v gu u w²pc c|^arfqw pcr o gngi c o gi dqr²qi wv²rgv
 o x²v u|ko dqr²a n²c0 C| »v qw^am mdg x²uxg c pci { o ci {ctqm uqt^a/
 dcp. hki {gm g|vwxg pgo|g²v. j qi { c rgi o quv²dd. rgi|qtf qcdd
 uqtu nqr^at r w|vcuⁱa d»n ku rgi gv. u v n²m²n²u²ngv x^lgv hcnv|v/
 pwpn# Mk wflc. o knqt²u j qi {cp xgu|Ām o clf ku²v gppgm c vcp²u/
 pcm jcu|p^avĀ k^lv cttc. j qi { d^l pwpm n²m c l¾k dgp u o k^lfp kf gi u^a/
 n²pmen^av n²m²tg|pĀm cnfto gnm²tc vgtj gv lgrgpvpg ku. v²v²pgk
 mĀf g²uĀm o²n»uⁱa v0 M⁴grg| cttc. j qi { c p{qo qtĀuⁱdcp ku. d^at/
 o gnm²tc u|cn²flqp t^apm cnft v²uk cnft u|gngo k cnft o k^lfp c ngw .
 o gi cmw^au p²mĀn go gm²fgw rgnm gn²pgm n²m o ctfpwpn0 O gi o w
 vvc. j qi {cp n²m²u rgi gv c uqtu h²ft ngtgm²pĀn# O gi vcp²qwa^t
 dgppĀngv j qi { h²ftg vgt²xg ku gi { pci { v²v²pgk r²v ctcpeu x²itg/
 jcl»k vku|v²i j qtf q| »k o ctfj cwpn0 C vci knw o ci {ct uqtu pci {
 r²rfc²t^adcp o k^lfp ki gi {km rgi vpw²i qucdd rgu| c| c r²rfc. co gn{
 Mrgdgnudgti u|go²n²v n o wpn²uⁱa »n ko o^at o k^lfp³/₄ntg gr^arcu|v
 j cxcv²p o ctf0

LGI [\ GVGM

Mrgdgndgti ncfqw o wprñkpcm kf²|²u²p²n c t³kl^fu²ugm c n³kgwng| n-
 DQV0 *I t>h Mrgdgndgti Mwp» dgu²f²gk ekmgk² u v⁴x²p{lcxcu²ck3; 38ô 3; 48.
 Dwf cr guv. 3; 490 Cjy gpcgwo = P gqp0 *P gqpcelqpcrñk o wu. Dr0²0 p0 Cjy 0= MMD *M³A³f gm gm M³p{xg. Dr0²0 p0 Cjy 0= LJ | 0 *L³Alvgm jcto kpecu²xgm
 Dr0²0 p0 Cjy 0= Xkf i x0 *Xkf i x^an^fi dcp. Dr0²0 p0 Cjy 0= WC0 *Wqwn» Cmu²f qm
 Dr0 g0 p0 Cjy 00 I {cmtcddcp kf²|vgo o²i c n³kgwng| o wprñk I t>h Mrgdgn/
 dgti Mwp» Go rñng|vg0 C it>h Mrgdgndgti Mwp>t>n ul>n» go rñngul²f gm²u
 o gi go rñng|²ugm Dr0 3; 5: 0 Gi {vgv k P {qo f c *T³kl< Go rñ0 C pgo | gi { rñuk
²u qtu^ai i { rñuk dgu²f²gk² u kqo^ap{ckv. co gpp{kdgp w>nci gl gngv xcrc/
 o gn|km i { lvo²p²dg hgnkgwv. ^ancrñ dcp g i { lvo²p{gnd n kf²|go 0 Gi {²d/
 n³pv c pcrñnev²u kqo^ap{qnev eucm ^ancrñ pqu^ai dcp lgrñ go. ogtv c f^awo
 crñr^ap c jkxcvñqu ncf x^ap{qndcp c| cfvqm²u kf²|vgm o gi wrñ rñ cwñ0
 C n³|kcvqu cp{ci d>n xgw cfvqnev wrñ uqnev²u kf²|vgngv vgt0²ul gw|gt rñi
 r qpvqddcp pgo rñcrñ^a rñ cwco 0

90 r0C pgo | gkdcnqtut>nXkf i x0564080

: 0 r0C i c| fcu^ai k²tx²p{gu^arñ u hgn²vngk nMM0483030

: ô 330 r0 C Mrgdgndgti/eucrñft>n ³uul ghqi rñ» i gpgcñi lek o wprñ< Cndgtv

Rgtuc. Fcu I cuej rnej v fgtgt xqp Mrgdgndgti | w Vj wo dwi. 3; 590 Kpudtwem
 Wpkxgtuk² heu/Xgtrñi Y ci pgt *Uej rnegp/Uej tkngp. Xgt³hnpvñej wpi gp | wt Ncpf gu/
 mwpfg xqp UAf wñqn jgtcvui gi gdgp xqp T0 xqp Mrgdgndgti. 57:0 ô C lgi { | gvgm
 n³q w wrñ nco o²i c n³kgwng| n³|kcvqu ³uul g^an³u< X^a| rñvqm c Mrgdgndgti/
 eucrñf v⁴v²pgv²j g|0 r0 C Mrgdgndgti/eucrñf0 K0 Mrgdgndgti Hgtpe i t>h
 neo ctcgp³rñ0 ³u²nc² ft0 Dct^avj Vldqt²u ft0 Fg²t L>|ugh0 C lgi { | gvgm n³q ³av
 wrñ rñ cw» vx^addk cfvqm ul gtlpv c D²eudgp f qñi q| » v⁴v²pgv²u>m n³q An c gucrñf
 v⁴v²pgv²tg xqpcvñu| » cfvqm hgmwcv²uc hqi rñmuj wcv o²i rñ0 J clpcn Kvx^apv
 ku0 Mrgdgndgti êl²gi gpñ xqñ^at>n lgngo | cfvqm wrñ rñ cw>m Dwf cx^at { N^aul>
 x²f gm g| ekm²dgp< êC| cmq²v u o kplu| vgt0 P { ³u²x^arcu| gi { p²xvngp rñx²rñgi 0
 Pgo | gw | rñv. 3; 4: 0 ul gr²0 520² ul^ao 0 C n³tf²uugn o²i w>nci ku hqi rñmuj qw
 U|cd» Fc| u 0 X0 ³0 H³A³vgm 3; 580 L^aksu *3; ô 420 ul 00 ô C P { w cv0 Ci { ct/
 qtu^ai i gnu|cn³u²uc gngp wncnq| » i { rñut n Dwf cr gunk J kncr. 3; 430 lcp0 350 ô
 C| kf gi gp pgxgv xkugn o ci { ctqm hqnq| qw n³qrguu²i gk n DEV0 XK0 30 ô
 C Mrgdgndgti/hgn²u²i gnt n ul>n» p { krcvñu| cv Rguk P crñ. 3; 4: 0 o^alwu 490 ô
 C x²tngtgu| w²i t n gi { km rctrc0 gpv dgu²f²dgp 3; 4: 0 o^alwu 6²/p0 N0 P gqp0
 4380 30 ô Hgtpe L>|ugh U|gt^ah i t>h>n Gunk Mwtk. 3; 560 L^ap0 370 X0 ³0 o²i
 U^a| cfqm 3; 540 3730 30 ô Cp{ck pci { cr¹t>n DEV0 65ô 660 30 ô Cp{¹t>rñ
 MMD 369ô : 00= cp{¹j q| ³u² hcvcmqtk rñxrg0 Go rñ 528ô 90 30 ô I { gto gm²
 nqt^at>n o ci c o qpf lc< êP ci { qp ul qo qt^a i { gto gmqtqo xqñ= cp{^ao
 d^apcvqu ³q xi { k² rñgvv² n0 | p ugo ku0 gtvgo c x³cu^ai i qv00# Cì kf²|gv

c| gi {km hqvqu 2u j kgrgu cf cvqnev vctvrc| » 3p2rgvtcl| k p{krvnu| cvd>n xcn». co gr{gv ngrgrgxqpcvdcp *xci { nkx^ai^audcp+ kecvk nř4 3av vcrf nco 0 Uclpqu. c| gugvri qu o gi lgrnp²u kf gl²v 2u j gr²v pgo ukngt Āv o gi^a mcr ¶ vcpqo 0 C nř4gvng| ndgp ẽ3p2rgvtcl| k p{krvnu| cv̄ o gi lgrř4ř uugn kf²/ | go 06 C ul²nguhg²tx^atkcucrf f kvj qpt>n Dctcp{c| Lxul vlp. Go rñ: 6030

C dgtrřpk fR nmqt k 2m²p{gnt n MMD 796 : 0 30 0 Dgengt p{krvnu| cvc Go rñ 990 30 0 Mrgdngudgti gi {2dnřpv o cic o qpf lc c O Āpej 0 P gwgvng P cej tlej vgp ul^ao^atc cfqw gi {km p{krvnu| cv̄ dcp. j qi { Dgengt c dgtrřpk gi {gvgo gp vcpw>/ v̄tuc xqn0 0 Mrgdngudgti ẽfcl k j qxcvctvq|^ař t>n C| Guv. 3; 580 hgd0 470 C ekmi ¶|> cf cvck c O 0 Mkt 0 Vgto 2ul gwwf qo^ap{k V^atu0pcm C/ go dgtk vgv e0 p²ru| gt ncf x^ap{^ad>n xgvgo 0 Mrgdngudgti o ci {ctũ i^at>n 3au| ghqi m>cp Mqtřku0 Go rñ 072030

346 3500 C ekul vstek vcp^atqm p{krvnu| cvck ncf cvcp o ci^a prgxgrnd rñ 0 C ul²nguhg²tx^atk ilo p0 lvdkgwo^ap o qpf qw dgu²f g DEVO 84: 0 8550 30 0 C j>eu Āj gr{k n vqpcunqrck nř^apf vř ut>n Dctcp{c| Lxul vlp. Go rñ : 40 30 0 Mřp{xv^tt>n w0 qw : 50 30 vx^add^a Rkl L>|ugh w0 qw 5630 60 30 0 C| 2ngv hqn^ař t c xqpcvnu| > vx^addk cf cvqm c| 3p2rgvtcl| k p{krvnu| cvd>n X0 30 0 2i V^atucũ i. 3; 380 hgd0 390 0 C dgtrřpk gi {gvgo k vcpw^ap{qnt>n DEVO 43500 0 P {krvnu| cvqm j kvcvr qm0 kplu| vři xqn^t>n DEVO 8390 P gpq0385030

360 rñ J kvcvrk hř4lgdd xcn>kpem dķ cm^at>n grkuo gt²ũ t n DEVO 5; 26 ; 3000 O kplu| vřgp 3m²i k Āi {nř4²t n Rgvk R^an Go rñ 3630 30 0 Gi {2dnřpv 46 2xgu nqt^adcp. 3; ; /dgp p uĀn0 0 C nkvr^auk Dqvne/eucrf t c xqpcvnu| > nkp{qo c/ vqw i gpgcni lck 3au| g^anř²uv c| kvcvqm nř4 3av t| 3av r²ř^ap{d>n xqm cm>co o gi luo gtrř00 Dqrř qi eucrf k²ngv² t n Dctcp{c| Lxul vlp. Go rñ: 7030

370 rñ Mřm{ O km>u go rñ k o kpv i {cntcp j cmv v²ř u o gi lgi || 2uv< ¶ Mrgdngudgti dgp eum c| v nkři^auqř v m j qi { mwn Ā r qř k m v 2u pgo ci^t t / xgl² t i 0 *Go rñ 4; 40 30 0 J qpx²fgm k o kplu| vřpgm Wto^apel { P^apfqt ul gtgv xqpc v rñ p0 *Rgvk J ¶ r. 3; 550 hgd0 320 0 C r²p| Āi {o kplu| vř t² i tg lgrř n v²ř u ekmgeung< → K m 3; 530 pqx0 : 0 0 C dgrñi {o kplu| vř tkvo dc xcn> xku| c/ v²t²uk ul^apf²nř t>n Mwj { U^apfqt. O ci {ct J ¶ r. 3; 570 qm0 490 X0 30 0 2i X^atqmwn Ā t c. 3; 5; 0ul gr v 05200 O ci krgt J vpi^a t k g 0

380 440 rñ C| cf cvqm wcrf uqm kf² | gvgn v Ā p{qo > t² ul v c nř | kvvnd>n xcn>n0 Uqm| qt gi² ul gp ucl^a v uo hř lgi || 2u ngv vcrf nř m p c hĀ gvndgp0 Gi { cm>ř o cn rñ 0 Pci { Hř ki {qu o xglpgm 52 nř4gvgu ncf^ař j q| vctvqo / lgi || 2ngv^a nř | qv 3au| g0 Gi { o^a u j gr{gp nř lgi { | k o cic ul^ao^atc 0 ul kvv nenki tchku i qpf qu^a i i cn 0 Tcpg. F lg t o k v j gp R^a r vug kp fgp r v vř xkt Lcj t j vř f t vř e0 o x²pgm r qvqu vctvqo lgi || 2nř 0 Cmř v m ul² r / ktqcm k nkxpcvck k0 ¶ | rñ Uej krgt Fq Ectnu^ad>n ¶ v nk vř dld i qpf qrcvq0 O^a u cm>ř o cn 3; 39 / dgp. ẽ F^a o ck qrcuo^ap{qm e0 I qvj g. Uej krgt. Klup 2u T0 Y ci pgt gi {gu o xglpgm e^ř gv^a nř | c 3au| g0 Lngv | cf crř m j qi { rñ I qvj g. Rto g v gw^ad>n m Ā ř nkř i {g v c| cncvctv fleu ¶ 2ũ t n ul>n> t² ul ngv0 Hř lgi {g| o cic ul^ao^atc p² j^a p{ ẽ vcrf nř nkř lgi 2uv< o kpv c vř cvqcp nř ul Ā v xqpc nř u ddk r v d r k e k o v p nř u^a i^a t c # 0 3; 490 qm0 ; 0² p ¶ | c < Vcrř p gi {ul gt. j c o clf c| kf o gi gpi g f k nř | 2 trgv vř ul gm o ci co ku c ZKZ0 ul / r^a t v vř 4 vř pgm² pgm o gi ¶^a ř t c i 0 *P gp0 9; 00 0 C vř xul gt vř i t n ul>n> kf² | gv MMD 5: 0 30 0 C pci { 2 dtgu| v m n MMD 3480 30 0 C o ci {ct j c| chku nř^a t>n MMD : : 00 C| g nř t f² ut n ¶ v ek m *MMD : : 0 ; 60 30 0 e^ř g c ẽ X 3/4 o ctv² u Cf {

o ci {ctlckl 0đ Cf { Gpft²t nx0³0²i c RgukJ krer. 3; 460hgd04/ku^ao^av0
 C v⁴v²pgm k vcpw^ap{qnt>n o kp v c i {cnytrvk rqrkckek crer^lt>n Pgp0 5240
 2u 5260 30 0 Pci { qrcuqur^ai^at>n gpekmqr²fknw v^l2nq|qu^ai^at>n 3 Rguk
 Pcr». 3; 550 qm0 330 X0 ³0 o²i Dgy rrp Octi kv ekmr^v Rguk J ^lkr 3; 5; 0
 o^alwu; 0

446 470 r0 C v⁴v²pgk j^aw²t x^a|qr^au^ap^an hrij cu^ap^anco I tcv I wu^vx
 o x²v C fwcrk^owu nqt c k⁶ k⁶ Dr guv. 3; 560 X0 ³0 h rgi k⁶ n0 3930 30^v0 C nk/
 gi {gl²unqtk pgo |gf²m xcm^ai^at>n u|>n> k²|gv w0 qw 33; 0 30 0 đ C o ci {ct
^amco gu|o g euki c j^a|ci nklgl²u Rgvj U^lpfqt>n xcn>0 đ Dgy rrp K^uw^ap
 p{krvnu|cvck ³au|gi { l^v4v dgu²fglpgm n^vv n³4gv²d n< I t>h Dgy rrp K^uw^ap
 dgu²fgk ²u ^luck k⁶ k⁶ Dr guv. 3; 550 k^vgtrgn^lek c tqo^ap ktgf gpc o q|ic/
 o cm Ai {²dgp l0 3; 0 540 30 0 C u|co quAx^atk gn cf^au r0 746 890 30 C o w^vcv
³au|ghji ren> o gi^amr ^luck r0 326 330 30 0 Mrgdgnudgti G³4x³4i L>|ught n
 DEV04896 99030Gi {²pkxku|cgo r^lngl²ug w0qw492030

486 540 r0 C| cfvcqm k²|gv gm v^lap{qo >t²u|v c n^l|kvcqnd>n0 C 4; 0 30
 v^lij c w> xku|cgo r^lngl²u Rgtk R^an>n Go r0 35; 0 30 0 C v⁴v²pgro u|gtgr²t n
 xcn> k²|gv DEV0 590 30 0 C 540 30 go r^lgw o w^lnv²tuc Rgtk R^ar0 X0 ³0 Go r0
 36300 đ C O o ci {ct pgo |gvk dltvqr qkkr^lt>n u|>n> go r^lnkcv 3; 350 ²xu^ao o cn
 gn^lvqr²r^ap^avu^lkp^vp RgtkR^ango r^lgv²gi {knhgn^lkc^ut^l dcp0

550 r0 Fco cuejng pgnq>ilc< Dqf gptghqto. 3; 540 qm0 450 C| cfvcqm ²u
 k²|gv mgdd nc ekml nxcn>n0

556 560 r0 C h^laf tghqto/i qpf qrv o An^lt>n c| cfvcqm Mgt²m O k³a^ln^l
 o pqi t^ah^ll^ad>n *C o ci {ct h^laf n^ltf²u. Dwf cr guv. 3; 5; 0< xcn>n< c eu^lpi >/
 vgr ^lut n 556 560 30- Rtq^au|nr Qwqntt>n : 30 30- Xcti j c I {w^lt>n : 70 30-
 c Fct^ap{k²|gv 3420 30- c n^xa^lpf qtr^lut>n 35300- Vku c K^uw^ap o ci cvct^vt^lt>n
 i 365030v nngl f f rgi 0đ C Dgy rrp{k²|gv Dgu|0n0; 030

596 5: 00 C| cfvcqm ²u wcr^luqm c| go r^lnkcvd>n c| gjjgl eucvnr v⁴x²p{/
 lcxurvd>n²u gppgm^lpf qnr^lt^ld>nxcn>n0

636 640 r0 C| Cntvkr c Dcpnt>n k²|gv o kp u^lv²u Mgt²m O k³a^ln^lw^lr0 đ
 Rgtk R^an C Lwk^lp/gi {gu^lrgv v⁴v²pgv0 57 ²x m^lf g^lg²u o w^ln^llc0 Lwk^lp
 det^av o ci {ct mwew> An^lpcm 9220 ²xhtf w^ll^atc. Dr0 ²0 p0 Ugrj cpgwo /P {qo f c
 g0 o w^ln^ll^adcp c 570 30 go r^ljk jqi { c| Cntvkr Dcpm 3; 34/dgp c| gtf²n^lk
 o ci {ct dltvqrnpem qnr^l Gi {²dn^lpv c| cfvcqm wcr^luqm ²u k²|gv m v^lap{qo >/
 t²u|v Mrgdgnudgti ucl^avng| hqicm c|x^ap{ckd>n xcn>n0 C n³4i { r^luk dgu^ao qm>m
 o go qtcpf wo qm ud0 x²i rgi gu hqto^adcp v²to²u|gw|gt rgi o gi v^lij c w>m c
 Lwk^lp/gi {gu^lrgv kcw^lt^adcp k^l0 C t²u|rgvugdd dldkqi t^ah^lck cfvcqnev kngv rgi
 wcrqm Rgtk k^l0 o x²t²0 đ C 640 r0qp go r^lgw Vctm>xlej L>|ught n x0 ³0 Xk^li x0
 670 r0 C 660 r0qp k²|gv t²u|rgv c pgo |gk^li k v⁴gmx²ugm v²to²u|gv²t n c|
 gi {km Rgtk n *: 00- ek^lv^lnv²xk lgrpv²ud n xgvgo 0 đ C 660 r0qp k²|gv jgn^l|gv
 n^lr Dgpluej Ctv^l ekm^ld n R²euk Pcr». 3; 360 lep0 390 0 C 6600 cr^lp go r^l

64/780r0C Lwk^lp/gi {gu^lrgv k^luo gtgv²u²p²nki gp pci { j cu^ap^av
 tgvgo Rgtk k²|gv ³au|ghji ren> o w^ln^ll^apcn0 k^lppg xcn> *c 4: 0 30t>n> c|
 740 r0qp v^lij c w> k²|gv0 Gi {²dn^lpv c| cfvcqm wcr^luqm ²u k²|gv m v^lap{qo >/
 t²u|v Mrgdgnudgti ucl^avng| hqicm c|x^ap{ckd>n xcn>n0 C n³4i { r^luk dgu^ao qm>m
 o go qtcpf wo qm ud0 x²i rgi gu hqto^adcp v²to²u|gw|gt rgi o gi v^lij c w>m c
 Lwk^lp/gi {gu^lrgv kcw^lt^adcp k^l0 C t²u|rgvugdd dldkqi t^ah^lck cfvcqnev kngv rgi
 wcrqm Rgtk k^l0 o x²t²0 đ C 640 r0qp go r^lgw Vctm>xlej L>|ught n x0 ³0 Xk^li x0
 670 r0 C 660 r0qp k²|gv t²u|rgv c pgo |gk^li k v⁴gmx²ugm v²to²u|gv²t n c|
 gi {km Rgtk n *: 00- ek^lv^lnv²xk lgrpv²ud n xgvgo 0 đ C 660 r0qp k²|gv jgn^l|gv
 n^lr Dgpluej Ctv^l ekm^ld n R²euk Pcr». 3; 360 lep0 390 0 C 6600 cr^lp go r^l

vgw ɛngi ul gdd go r̄n̄i /tg xqpcvnu| »n̄i x0 30 DEVO 8280 30 ô C| 740 r̄0qp q̄ncu/ j cw» kf²| gv Rgvt̄ o x²d n xcn» *4: 000 ô 3; 2; n̄i4 Ān Mrgdngdgti h̄Ā gul¹ o tc ʃlc lgi { |gvk Dqu pl̄t »n *xcuwcem n̄i tf² ug. ucvk̄ vk̄nek cf cvqm c r̄m̄uqm pgo / |gvk̄ i g o gi qu l̄ r̄t̄ »n n̄kxqpcvqm c Dqu pl̄t xqpcvnu| » r̄q̄nk̄nek dgu l² fgn̄l n gi {g| o² p{gm lgi { | n̄i4 {xgk ucd00 MĀr̄p pci { vpw̄o¹ p{v *o go qtcpf wo qv+ ʃlv p² o gv p{gr̄xgp< @dgt flg Gt| k̄j wpi xqp o w̄wro cpkuej gp M̄kpfgt wpf LĀpi r̄kpi gp cp wpi ct̄kuej gp O kvgn̄. J qej/ wpf Hcej uej wgp e0 Wi {cpeucm 3; 2; /d n t² ul r̄vgu n̄kxqpcvq v̄r̄i n̄wpm lgi { |gvk n̄i4 3/4v c n̄i4 gvnḡ| elo o gr̄< ěM̄xqpcv c pgo |gvk̄ i k n̄kugddu² i gm kun̄r̄ k Ā i² dgp c| qu l̄ v̄ m d̄kqf cm̄ k i { r̄udgp 3; 2; 0² xk p̄q̄xgo dgt j » 520 »n fgego dgt j » 40 ki h̄q̄v r̄ct̄ro gp̄k xk² d »n̄ 0 O lpf g| 3/4ul gh̄Ā i 3/4v c Lw̄k p/gi {gu Āgvk v̄x² n̄gp {u² i i gn̄ 3; 35/d »n v̄x² ddk d u² i gu lgi { |gvngv v̄r̄i n̄wpm c dqup {¹ m xcuĀk r̄tqdr̄ o¹ m »r̄0 f n̄c̄r̄ / dcp Mrgdcndgti cm̄qt uq̄nev h̄j r̄m̄u| qw c f² n h̄r̄ k² p {w» n̄i4 r̄ngf² u n̄i t/ f² ugk̄gn̄0 | tf gmgng v co l̄p v c lgi { |gvgn̄l n o gi¹ m̄c r̄ ʃj cw». c j qtx¹ v n̄i t² u o gr̄wF cm̄¹ ek r̄tqdr̄o v̄n̄l k̄ lu0

790 r̄0 Xcti jc I {w̄f t »n L »| ugh h j gtegi. Go r̄0 4: : 0 30 X0 30 o² i LJ | 0 352ô 3530 30 ô C Mrgdngdgti v̄x² ddk 2 r̄gv¹ n̄¹ i¹ tc xqpcvnu| » cf cvqm c o¹ t kf² | gw 3/2 r̄gtcl | k p {k̄cvnu| cvd »n xcn »n̄0 ô C ět² i k d̄c¹ v̄ < Rgvt̄ R¹ r̄0 X0 30 Go r̄0 3360 06 C h j gtegi gm ul¹ o¹ tc v̄t̄vq̄w gn cf¹ uq̄nt »n DEVO 5; 2ô 30 30 X0 30 o² i Rguk P cr̄n̄. 3; 390 o¹ te0380

7: ô 7; 0 r̄0 C| 3/4ul gu kf² | gvgn̄ n̄i | k̄cvqu o ci¹ p̄r̄xgr̄gn̄l r̄0 ô C Ucvk̄ vk̄nek J k̄cvr̄t »n MM0472030

820 r̄0 Dwf c { N¹ ul n̄ n̄kcf cv̄r̄p r̄xgr̄g c| k̄cvqm̄i4 3/4v0

830 r̄0 C j cl » uq̄md Āeu Ālc. C J cl » u² r̄gv. 3; 360 lcp0370

840 r̄0 C j gv̄k̄r̄ < C J² v 3; 360 h̄gd0 : 0 ô C p̄r̄k̄r̄ < C P cr̄. 3; 360 h̄gd0 : 0 ěC j qtx¹ v d² ng¹ tc0 X0 30 o² i Vku c K̄x¹ p r̄xgr̄v U n̄gt̄r̄g| K̄¹ p j qtx¹ v d¹ p̄j q| 3; 380 lĀ0 430< I t »h Vku c K̄x¹ p 3/4ul gu o w̄n̄l k̄ Dr̄ guv. 3; 5900 Vwf 0C n̄ef² o lc. Xr̄0 36030

850 r̄0 Mrgdngdgti ěh̄Ā r̄ḡr̄ d̄w̄n̄i t »n̄ H¹ v̄t̄ C r̄f¹ t j gv̄k̄r̄lc Cteqm² u f r̄ct̄eqm 3; 390 o¹ te0440 ô ěM̄4 ngf xgn̄i² t n̄ Rguk P cr̄n̄. 3; 390 o¹ te0380

86ô 8800 Vku c K̄x¹ p r̄xgr̄g < I t »h Vku c K̄x¹ p 3/4ul gu o w̄n̄l k̄ Xr̄0 3; 900 ô C n̄uq̄| ux¹ tk gn cf¹ ut »n 30 M̄q̄n̄| ux¹ tk J ʃl̄r̄. 3; 380 h̄gd0 330 ô C r̄t̄q̄i t̄co o / dgu l² fgv c| gi {n̄qt̄ Ā n̄uq̄| ux¹ tk Āu¹ i qm t² ul r̄vgugp̄ kuo gt̄vgv̄ n̄c cf cv̄c̄ko ck gi gn̄l n xgwo 0 ô C Mrgdngdgti n̄upi t̄gi cp̄k̄nc xq̄n̄¹ t »n uww̄j xc v̄t̄lgul v̄w x¹ f̄c̄nev ku gt̄vgw c M̄q̄n̄| ux¹ tk VĀn̄i4. 3; 390¹ r̄t0 320 ô C Tgt̄0 U lo r̄g o¹ t c| 3; 390¹ r̄t0 8/k ul¹ o d̄cp e¹ h̄q̄r̄ic c x¹ f̄c̄nev0 ô C j gto cl̄t̄q̄f k̄c 2 t | 2 u¹ n̄co / vk̄n̄i t »n Xk̄f i. 3; 390¹ r̄t0420

88ô 890 r̄0 C| Gt̄f² n̄ | tg xqpcvnu| » v̄t̄xngv c n̄i | k̄cvqu lgi { |gvgn̄l n xgwo 0

8: ô 920 r̄0 Mrgdngdgti o¹ t 3; 38/dcp 3/4ul gh̄j r̄n̄» kuo gt̄vgv̄ uv ʃj v c o ci {cnĀ tq̄m̄epv̄ Āi | ul gtx̄g| gv² t n DEVO 7; 7ô ; 90 30 ô C| qtxq̄o/w̄pn̄v̄ tu D̄cn̄ { Ncl̄qu= v r̄g xcn» c: 8: 0² u 920 30 v̄r̄i r̄j cw» kf² | gw X0 30 r̄0 4; 5ô 5230 30 ô C x¹ ek ul cdcf gn cf¹ u h̄j cm̄ c| x¹ p {¹ v c| k̄cvqm n̄i4 3/4v v̄r̄i n̄co 0 ô C| kf² | ḡv̄ uq̄rt̄q̄k r̄t̄q̄i t̄co o d̄gu l² fgv c Uq̄rt̄q̄x¹ to gi {g e0 n̄r̄ n̄i4 r̄t̄d n xgwo¹ v̄0 ô X0 30 o² i M̄gt̄ v̄ ul. Go r̄0499030

92ô 990 r̄0 C v̄Ā v̄ pgw̄f qo¹ p { 2 t̄f gn̄ d̄gp x² i | gw o w̄n̄l v t² ul r̄vgugp̄ kuo gt̄vgk Nw̄n̄k̄lej. Dwf cr̄ guk U lo r̄g. 3; 5: 0 p̄qx0 G v̄p̄w̄o¹ p {v c n̄i4 gv̄

ngl ndgp hñj cu p^a rgo 2u kf² | go *c 930 2u 980 30 qnxcuj cw^a kf² | gvgm o gi vñf n' j cw^a m Dr0 U|0 l0 u|0 4540 2u 456000 ô C v² tuwæv Æl^a u| gtxg| 2u. o kpv wfqo^a p{ / rqrksknek gn n' u| Ävgv J »o cp ekmf dgp. Go r0 3340 50 30 X0 30 o 2i Fqo c/ paxu n'. Go r0 46500 ô C dgnñ4u| 3pv u| 3kgi g DEVO 50 3700 ô W0 qw 380 9500 o 2i p² j^a p{ V34v0 V^a tu0 nñ4i { n' uk dgu² fgv Äd»n n' cf qw0 ô C Dwf cr guk J ¶ñr kf² | gw ekmg p² xvgp Än lgrgpv o gi < n' u² i vrgp Än T^a n' uqk lgp ¶ñc0 ô C dgnñ4u| 3pv xgn n' er euqr vqu v² o cf^a u< Cm qv^a p{ 3; 390^a r t0 4: 0 ô C Htgp | g r² f^a l^a tc xc» wñf u< — P go | g f² m 3; 430 lcp0 80 ô C 970 30 kf² | gw p{ krcvñ | cv 3; 440 pax0 DEVO 870 30 ô C vx^a ddk cf cvqm pci { qddt² u| v Mrgdgm/ dgti n' cf cvæp lgi { | gvgk n xc» n0 Kgp Hk { grgo tg o 2n» c | gp³ / m² i grñi cf^a uc cmæm^a xc» o qpf qv dgu² f tcr u| qf kmu. v² 4gf² ngu hji cm c | x^a p{ c0 Gdd n xc» c n' k0 2u r' u| gv< èMqtck kl Ä^a r^a i qo »v u| cdcf kf o gv o kpf ki v² 4v² pgk qnxcu/ o^a p{ qn' pem o qpf j cv^a o v' p w^a p{ qn' pem u| gpv ngo 0 C o v' n' n' j q | . u| gt/ xgl² ugn' j | . o gn' gn' v t^a o d' | vcm o kpf ki c pgo | gk o Änd»n o gt' | gwgo c | k' ur k^a ek» v c pgo | gk | co cvq v o gn' pgo | gk | co cv p² m Än j k Ä v² 4gnx² u o kpf gp ngl f² u0 P go xgt c | i f² 3ngtgv o ci { ct v' r' l dcp 2u o ci { ct r' gm' gndgp0 | u j c n' 4r^a n^a o pcm o clf x² i² tg 2tgm tgo 2rgo . v² 4v² pgn^a k v' p w^a p{ qndcp vñf rgo o gi c | v c o gi p{ w^a x^a u v co gn' tg go 2u | v . r' | cu o v' n' dcp v² 4v² / v cpp { k 2x w² p . Ä { 2t | go . p² o k lqi i c n' u^a o ¶ j cvqn000 0 W0 qw< èO k j c | gr i 3k' gpf d² ng h' 4cf cv' ek » n i qpf qm' qf v' pm o ci { ct cm' q² uqm w² p u » x^a ti v' m0 0 lgn' rgo | . jqi { c | Äm' qtk v² 4v0 m Äh m n' cf^a u^a pcm i qpf qv v² v o^a t 3; 39/ dgp hgn' xgv' gv0 O gi i { | f² ug xq' m jqi { | g' gnd n c i | c n' q' t' r' k 2rgv' gn n' 4 xgv' p ner/ euqr v dcp^a m» rqrksknuqm 2u n' 4i c f^a m ku uqnev v' p w^a j cv' p c0 èJ ku | gp c |^a n' co / k' v' p c m ô hgl vgi gk ô 2u c rqrksknek dgu² f pgn ku c o ci c u² r' u² i² v 2r rgp c | cmw² rku gugo 2p { pgn c v² 4v² pgn k gn | o 2p { gmgn xc» 30u | gner euqr u² v c pgo / | gk 2rgv pci { hñ' v' q' p' u^a i^a dc xc» dg^a n' v² uc cf lc o gi i 0 DEVO 340 30 ô | t f g / o gu c | v ku o gi hki { grp Äm jqi { Mrgdgn dgti gr³ / nk o n' 4² u² xgn n' er euqr v dcp . c' p' p m gtgf o 2p { gn' p v . Äu^a i l' k' p m jqi { cp ngl f v² m o^a t cm' q' t c w^a qo^a p { 2v xc»^a r' f q | c x^a n' r' u² v o kpv pgo | gk n' 4rgu² i gv go rgi gpk0 X0 30 U | » | cv 3; 420 qm0 70 èO ci { ct v' w^a qo^a p { i < èO kpf gp n' k' p m^a v n' gm 2t | p' k . jqi { c o ci { ct m' w^a Äc n' h' l' gu | v² ug 2u c | gtgf o 2p { gu w^a qo^a p { rqrksknek c rgi gt ugdd . rgi { | / jgv' vgp hgi { xgt Äm c | Ä j q' c r' r ¶ udcp0 Cn² c m' w^a Äc . c | 2 c | qtu^a i i 0 X0 30 o 2i Dwf cr guk J ¶ñr . 3; 430 lcp0 70< h' f o pgn Äm c h' 4go gm' g f 2u gn 2u h v² p { g l² v< m' w^a Ä^a pnev pgo u| cdcf eugtdgp jci { pwpm 2u j c k' v² / o 2p { gk v rqrksknek u| gtgp e² v' p u² i Äm x^a n' i dc uqf q' v 2u c n' h' q' u| v w j c | c pgo n' r' gu gi { o ci^a dcp n' d' t c^a n' n' k' p k^a n' l' q' v' r' t c c v² tuc f' c m o . n' k' m' u' c xk^a i i^a . jqi { kw xci { qm 2rgm jqi { dgppgo c pgo | gv 2n dgppgo 2n c tgo 2p { 2u dgppgo v' t go c v' w^a 0 ô C 9 0 30 go r' h' gw èv' g' p' k' c n' m' t' q' x' v d' c p c n' 4' g' v' n' g' v' v' n' l' w' n' 30 dgcf x^a p { Egtw' k' j q | . jqi { c o ci { ct m' w' c m c | q' r' u| x^a t' qu' n' d' c p k' i { p' g' gu k' p' g' t' p^a w' u' k j' g' n' gv n' er l' c' p' c m = 40 dgcf x^a p { c | Ä { x² f k n' eo c^a t' j q | . jqi { gi { Äm' qtk lqi v² 4v² p² u | p² i { 2xgu n' k' n' r' l² u² v vgi { g r' g' jv x² = 50 jcu' p m dgcf x^a p { c I { QU / j q | gi { i c | f' cu^a i v² 4v² p² u | n' k' n' r' l² u² v 2t f gn' dgp = 60 c r^a t' k' uk n' w' c v² uqm gr' k' p' ¶ v² uc c o ci { ct / h' t' c' p' e' k 2u c h' t' c' p' e' k / v² 4v² m n' er euqr v' q' m' t' c x' q' p' c' v' n' u | » r' i = 70 o x² u | g w² 4v² p' g' k d' k' q' w' i c' r' n' ¶ v² uc c V² tuwæv ngt' g' v' k n' 4 3v Gungt^a | { R^a n jgt' egi dgx' q' u^a xc m = 80 c xk² nk h Äk eu' r' f' q' m r' x² n' v² t' c' l' p' c m t' g' p' f' u' l' t' g u^a m' w' c v² u² t' c k^a p { w » r tqi tco o n' k' q' i q |^a u0

990 r0 Dgen' t p { krcvñ | cv. Go r0 99030

9: 0 : 20 r0 C tqo^a p 2u f² n' u | r' x r' t' q' d' i² o^a t c x' q' p' c' v' n' u | » c f' cv' q' nev wñf /

; 60 *n* C dcnqtu o²n²i gkd n xc» hrgo gm²f²u ul²ru²i²t n Xkfi x/
3440 30 ô C rqrknc n²g h dd cncrkuo gtg²t n LJ | 0 650 30 ô XO 340 o²i LJ | 0
45ô 4; 0n

; 70 *n* C| Àl gwt»rck jgn{|g⁰ Pggp0 850 30 ô C pgo|gf²ngm jcte^at»n c
Qqpf²o k²vgtp. fgu | w²lcpv Zr⁰ n²pi tgu²l w²p 3; 450 cwi 0 60 dgu²f²dgp ul»n
*n²l|kcvd»n0 ô C t²i k²u Àl gi{o^a u o gm²w i qo qn²i^auc0 MM0 80 30 ô C pci{
n²vcu|v»hc w²pk o ci{ct²i pgo c| c v²4²vpgm k uvd0 r²p|. co k xqn0 DEVO
67; 030ô C n²gi{|g²u nqt^apcmng² t²w²i^at»r0Pggp0462030

; 80 *n* C unqenj qm k dgu²f o ci{ctw⁰ Xkfi x0 37; ô 3: 40 30 C jkcvnq|qw
t²ul c 3: 20 n² v²n²ij c»0 ô C nqtul cm^avo gpgk lgn²i²t n DEVO 5220 30 ô C nku/
j k v² i gm²p0 Xkfi x0 37: 0 30

; 90 *n* Qr²ko k²o w²t»r0 DEVO 3780 30 ô Vqx^addk lgn²o| cf cvqn0
Pggp0 82ô 870 MM0 84ô 880 30 ô Jkcvnq|qw o²ncw²lc Uwt^ap{| O km»u.
Pgo|gk —l²i. 3; 490 o^ate0 490 ô C| qr²ko k²o wu. o kpv c| ²ngv qzki²plg0 LJ | 0
3530⁰ô C v²ncx²||j cuqprv0Pggp0375030

:: 0 *n* C m²xkn²o dgtgt n⁰ MM0 33: 0 30 ô C n²4²gvng² uqtuf²pv cnek»
gugv²gi gu grj k²a|^au²t»nLJ | 0580n

:: ô 3220 *n* CAi w²c²u²qm² u kf²|gv²m v²ap{qo » t²u²v c n²l|kcvu cp{ci d>|
xcn»n0ô C j c| c j gn²pgmo gi x^anu² v²u²t»nXkfi x0382030

3230 *n* C o ci{ct v²4²vpgno. o kpv c n²vcu|v»h²m dc^atc LJ | 0 470 30 ô
C ngmk ce²n h²if t n ©C0 4: ô 4; 0 30 ô C| c²n²ehc/j cuqprv WC0 620 30 ô C rqt/
w²ncn/j cuqprv0 WC0 580 30 ô C v²4²4m o gi ul^an²u²n Xkfi x0 3870 30 ô C v²4²4m
o gi ul^an²u² c²ew ku²n tgo²p{|t n DEVO 470 30 ô C v²4²4m r w²l v²u²n x0 340 o <|
MM0 9ô 350 30 ô Igi{|gv²kdgp ku uqm cp{ci qv v²n²ipm c v²4²4m r w²l v²u²qntc.
^an²c²n²dcp c v²4²4m o gi ul^an²u²cn n²reuc²v²qu r tqd²o^antc xqpcv²||»n²i 0 Gi {km
h²n²gi{|²u²dgp jqu²ucp gm²mgf km Tc²pn² ^an²u²t»n co gn² ul g²tp U q²ko^ap
gi {gv²p ^an²4 v²dgp o gi f²pv²4²g O ci{ctqtul^ai qv u w²pc Ài{| l^atv²ngv dgppg.
o kpv c ucl^av^adcp0 èGi{| ul g²tp²v²gv ^an²4 gv ô ²l²c ô gi {dc²mko gpgv²n
j c f²l²tcv xc»dcp ²ngv²r²gu p²r gm gtgl²v ku o gi d²p²ij cvl⁰ K²l gp p²r gn²p²n
c| qdcp c pgo|gk r²v 3²pwf²cv² u c| cnetcv c| cwctnic xku²cul g²l²u²tg
vqx^addtc ku o gi o c tcf² u o gi h²gn v²gv²ndgp² u gt h²u²l²ugndgp p{|gt n²h²g/
|²u00 C h²Ài i gv²pu²itg. c| ^amco k²itc lqi e²o gn w²cl²qpn²r r gp o k²pf gp
p²r d². o gn² c| v nk w²lc o ci^apcm m²l fgp⁰ 0 0 G p²r jgn²|g²v c| qdcp
n²w²i v²gv²Àn o gi n²4p{|²l² v²4²gn²ugl²gm h²rtq²icw. lgn²i²v r²p{|gi gv² gp{|²l²
j c nqt^addcp gi{|gt o^at pgo|gv xqn u j c| k²gi gp w²nc²o o qv²qj c²xgkdgp
o gi xqn dgppg c pgo|gk 3²pwf²cv. c| 3²p^am²uw²u cnetcv² u c| ^amco k²itc
xcn» ^ancp²» v²4²gnx²u⁰ f²nc²dcp lgi{|gv²kd n o gi^ancr²ij c». j qi { o²n²tg/
j c» v²pw² ^ap{|qmn² u gm²mgf²ugmgn r t»d^anc h²ev²rd² xgkdgp o gi/
h²l²gv²pk c o qj^aeuk eucv w²p n²h²ln f²4v r qrknc² jgn{|gv v²kn²ks0 H²n²gi{|²ug²/
dgp d n²xqpcv²ncv v²n²ipm v²4²dgm n²4 3²4v J co o gt pci { o x²d n I g²ej²ej²vg
f gu quo cpl²ej gp Tglej 0

3240 *n* C xku²cp{|gugw hc j cuqprv0 DEVO 3780 C j cuqprv²v v²4²du² 34
ku j cu²p^arl⁰ ô J gi gf u N²t^apf h²l²vgi gv² c| gi {km M²h²cn²w{|v²tuc²i k gn/
c^au²t²dcp. j qi { o gi euqpm²v qtu^ai m²w²À^al^av² r²u²i dgp ngm o gi tk p²Àn0
X0 340 M²h²0V0 x²ncr lck —l h²n²co. 750 ul 0 *3; 42ô 3; 43+ èC o ci{ct²l²u²cn²i 0 ô
C| k²l²|gw²pcr k²rc < Xkfi 0

3250 *n* C ur gpi r²tk²o wut»n ^anc²dcp c| À0 p0 m²w²À^al^agh²vk²o wut»n DEVO

4250 42: 0 P gqp0 890 Xkfi x0 ; 7080 X0 30 o 2i MMD 4246 42: 080 ô 34ul ghqi nncp< Mqtpku. Go n0626 63030

3260 nOC mwnA^adcp c| go dgtk²i o 2i uqj c ugo eucn>f qwDEV06; :030

ô C mwnA^atc vtgo v gtgl²t n LJ | 0 79080 /ô C jvcnqo 2u c o xgm²i Xkfi x0 4376 4380 30 C| qtqu r²fc Xkfi x0 k0 j0 ô C mwnA^atc i |»i {¶» gtgl²t n w0 qw 330 4750306 X0 30 o 2i Dtgñf. Go n0479030 Mqtpku w0qw64030

3270 nD C jpc{cvn> nqtqm rñgmcpce Xkfi x0 530 30 ô — e²mkv | 2u DEV. 8960r06 C ngw u hcrf cv>n0DEV 7: 40

3286 32 9080 Vtkcpq. Oqj^aeu 2u c Dcej/nqtul cm 34ul gj cuqprñ² u² j q| x0 30 DEV0 4480 88: 0 30 MMD 726 760 30 ô C| 3p^an>u² i j q| o c lqi e²p ngm LJ |. 3340 30 X0 30 o 2i P gqp0 436 44080 ô C mwnA^atpv | o 2p {gn² tv j q| qw cp {ci k^a r f q| cvgtñ² 4euklgpvp u² i g DEV0479030

32: ô 32; 080C mwnwul v²tec x^ancnc^a vo gpgvrgi c j qp x²f gm gv LJ | 0; 4080

ô C o ci {ct u² i^a r f q| cvck c mwnA^a 2v Xkfi x0 37; ô 382080 Oci {ctqtul^a i nrgv hgr f c p {wi cvk o xgm² i j cv²tc Xkfi x0 3540 3850 DEV0 82080 ô C o ci {ct/ u² i c| gw>rck mwnA^a n² 34u² i gi {gn lqi À vi lc Xkfi x0 383080 C hrgo gm² f² u 2u jcp {cv² u x^ancnq|^a uc DEV0 6860 k0 ô C tgh²to nqtul cm lmg0 | 2ug DEV0 8: 030

3320 30 C Dcej/nqtul cnt>n DEV0 44; . MMD 4450 30 ô X³4340 ctv {t>n0 MMD :; ô ; 20 30 ô Oci {ctqtul^a i. o kp v Gw>r c dgr< a t quc0 DEV0 479080 Gtt n v²4d ¶ dgp ul > gukn0 X0 30 ; 5080 ô C ul qtqucdd² tvrgo dgp xgw mwnA^a h²4p {t n DEV05860306 C mwnA^atc. o kp vxgtugp { DEV0764030

3330 nD C i²r nqekj cuqprv P gqp0 4676 4690 30 ô lmg0 | c| qp dcp. j qi { r qk m² kci gi {^anci²p pgo xqn j clrcp f > c xgl gf gm gu ukv² i tg0 X0 30 LJ | 0 630 30 i 0 0 vlc p qk Oci {ctqtul^a i gi { pci { nqek co gn {dgp dgpp² Åpgm Oci {ctqtul^a i 34ul gu cp {^ak 2u i i {gto gnk u gppgm c nqekpcm c| Àlc o 2ⁿ u² i gm 2u ul cnc² nqm h²44v xgl gv0 lcl c ppcm c j gv {ng nqekupcmcnk o gi i qpf qrcvcpw 2u ul kclqp dgrx^a i c npxcm n² 4 2u c o 2ⁿ u² i dg f 3p v cuu qp {qncv 2u i i {gto g/ nrgv. cnkm pgo cnetpcm o gi jcpk0 ô Pgo ul cdcf 34ul gtqucncf pwpñ# Xkfi x0 3370306 C r^a i ckdgp {qo^a uqm>n DEV04; : 030

3340 nD C o ci {ct mwnA^atc hgvctv² u² pcm n² 4grñ gwa² i g Xkfi x0 339080 C nki {gl² uk nqt 343m² i g0 VLC0 4230 30 ô C vx^a ddhglrgul v² u n² 4grñ gwa² i g LJ | 0 440 MMD 4466 470 30 X0 30 o 2i DEV0 960 30 Gi {kn hqpvu ekmg< ëC| c dk qp {qu uqncv go nri gvgw mwnA^a h²4p {i LJ | 0 3296 3340 30 ô C ul gmg0 k Vtkcpqt>n P gqp0 42; 0 n0 ô X0 30 o 2i J > o cp. Oci {ct uqtu ô o ci {ct j kcv² u0 O Àv² u l 3k . Dr guv 3; 6404856 487030

3350 nD C nki {gl² uk nqtul cm mwnA^a r qrkñ² i^a pcm d² e^a rvc DEV0 576 80 630 4296 : 0 MMD 340 30 ô C Mquuwj /k² | gv P gqp0 4666 70 30 C mwa^a h²4p {/ i qpf qrcv tgh²to nqt kuqt² t>nw0qw0

3360 nDC o ci {ct e²p gtt nP gqp0522030

3370 nD C mwnA^a h²4p { . o kp v nqt o^a p {rtqi tco o DEV0 KZ0 30 ô C| gmgp/ | 2nk r wdrlknc< O kqc { Kux^a p0 ô Dgvj rrp v² o qi cv² u² t>n DEV0 4290 42: 0 52; 0 30 X0 30 o 2i c| Gi {u² i gur^a tv Go rñncndwo c e0 n² 4gdgp Mrgdgnudgti ekñ n² v< ëC pgo | gv grkuo gtv xgl² tgi0 Gddgp o qpf lc< ëDgvj rrp pci { mwnA^a t² | 2ng o kp li^a vgi ¶ gw c nri pci {qdd pgj² | u² i gmgp0 ô Dgvj rrp^a nco o x² u² gv² t n P gqp0 56080 ô Dgvj rrp r qrkñ² i^a t>n o kp v 3p w² cvqu gt i { l v² ut n MMD 75080 ô Mrgdgnudgti 2u Dgvj rrp c| qpqu hgr hqi^a uc c mwnA^atc ul gtr² t n Xkfi x0 47: 030

Dgvj rnp o gi x²f^k Mrgdgnudgti mwnÀrqrkknf¹v c hgnj^a|dcp U|0:80 30 x0 30 4680 r0 ô Vqx^addk cfcvqm vnf¹rj^cwm Dgvj rnp nkc¹q^w dgu²f^gldgp. r10 r0 37:0 3870 3308:0 30 ô C mwnÀrqrkknf¹p{tg xqpcvnuq|»ri x0 30 Ocmek L¹pqu. C j^adqtÀw¹pkOci {ctqtul¹i. 3; 2030

3380 r0 C| kf²|gw uqr¹tqpk dgu²f^gv c| ktcvqm n¹4³4w t¹4w ner n¹x^ai^au»n kuo gtgo 0 ô Mrgdgnudgti mwnÀrqrkknck tgpful¹gt²t n Mqo ku. Go r0 67080 Fqo c/ pqxul n¹ w0 qw469030

3396 33:0 r0 C| cpiqn nqn¹i¹kwo vgtx²t n Mqo ku. Go r0 670 30 ô C vgtx/ ulgt gr¹t^au hqpvqu¹i^at»n MMD ;76 ;80 3220 30 X0 30 o²i DEVO 6;30 8370 Xkfi x0 4930 30 ô O²n¹ dgr kmpv¹uv gpi gf Mrgdgnudgti ngmk xkfi^adc. vgtxgl/ i g²ugldg c| gi {km ô vnf¹p rgi gi {2pkdd ô hgrigi{|²ug 3;32/d r0 C v¹4gf²m gi {dgp o wcd¹c tgpful¹gtg²v¹ rqp¹qu¹i^av vgtxulgt gr¹t^aut¹c xcn» v¹4gm¹ x²u²v0 Gn r¹rgw c| X0 h0 q0dc u gl emen¹o c n hgrigi{|²ugldgp m¹4p tqxcvq p{ksq^w èVgtxgm²u vggpf m o gr¹ngv c| X0 H¹g²uk qu¹v¹r¹dc lw¹uwpmt¹ «nr¹q¹ v¹wpm o gi 3;380 «rtkku jcx^adcp¹0 C vgtxgl gv j^atqo t²ul¹tg qu¹tkn r0 —k¹ vgtxgn0 KO Dgtw^a|^auqn0 KO Vcpw¹a¹p{qn0 T²ul¹ngvugddgp. fg pgo x²i/ rgi gup eucm c| r0²u KO rqpqv fqi ql v n0 M¹4p¹4gp o gi j^cw go dgtk fqm¹ o gpw¹ c èdgtw^a|^auqm¹n¹ ner euqr¹vqu vgtxgl i g²v. co gn¹ cngt¹pcv¹k ô gnu² u o^auq¹ uqtdcp gn xggpf ô »jcl¹v uqncv v¹cm c|0 Uclpqu. gppgm c t²ul¹pgm n¹4u²i xg²v o^atku gh¹ekvgn x²i| f¹4w¹ Mrgdgnudgti ègn k^ap{| qv¹ 8;47 M nkc¹a¹uv j¹q¹wc hgf gl gveucm8222 M¹tc t¹Ài qw#

33;0n0C o xgn f²uh rkn¹t¹gkXkfi x04; 2030

3426 3430 r0 C| Crqt¹k²|g¹v0 Pggp 4766 770 30 ô P²ro xgr¹u²u o ci cu mwnÀc DEVO 76:0 30 X0 30 o²i J »o cp. Oci {ct uqtu ô o ci {ct j¹kc¹v¹u. 3976 39:0 30 ô C ul gi gfk cxc¹v¹ u lo dqkn¹u lgrgpv u²i g0 Xkfi x0 4; 20 30 ô C p²r/ knqrk n¹4u²i gnt n DEVO 739080 ô C wfqo^ap{ o gpv cne¹» j^cv¹u¹t»n J »o cp. Go r0 33:0 30 ô C| 3¹u¹gqo r¹u w¹pk^a ncr qvnt¹ xqpcvnuq|»ri 30 Oci {ct{. C o ci {ct ul gng¹o k²ngv x^an¹i^c e0 fqi ql¹v¹0 *C o ci {ct wfqo^ap{qu pci {/ Àgo o gi ul gtxgl²ug. R²eu. 3;530 346 4;0 30+ ô C wfqo^ap{rqrkknck dghmg/ v¹ugm icl¹fcu¹i qu xqnc Pggp0 4770 306 C pgo g¹lgw xgv o ci /j¹cuq¹rv DEVO 8970 30 X0 30 o²i èI c|fcu¹i²u mwnÀc0 P²i { ekmi 0 MMD 4726 990 qx^add^a DEVO0748030

3446 3450 r0 C n¹Amgtungf gro k v¹ti {c¹uq¹nc xcn» j¹kc¹vnuq¹u Pggp0 4830 30 ô C o ci cu o xgn¹u¹i. o l¹pv o xgi j^a|k p¹4²p{ì MMD 3270 30 ô C| 1¹a¹u/ wf¹»m v¹o cf^auct¹n Pggp0 3: 60 30 ô C j¹qper¹1¹uv c| cmq¹v¹uqm x²i rgi g¹u¹km Pggp0 367080 ô C hqt¹f¹q¹w i À¹t»n DEVO 5: 7080 ô C| 3¹4^am¹ wfqo^ap{qu mwc/ v¹u pgo |gk lgrgpv u²i g VLC0 3;36 4220 MMD 35;ô 36;0 DEVO 8430 30 X0 30 o²i Mqo ku I {w¹c hgl¹vgi g²v¹v Oci {ct{. C Oci {ct Vwfqo^ap{rqrkknck C¹rx¹g²v¹ug. Dr guv 3;490 9:0306 C mwnÀc0 gpv uqtul^av¹mvgtxg DEVO693030

3466 3470 r0 C wfqo^ap{qu n¹4³4mgn hppvct¹qv ul go²n¹gu ner euqr¹vqm¹ t»n Fqo cpqxul n¹. Go r0 4;0 Mq¹t¹p{k w0 qw 4890 30 ô C nku »u n¹4²r^amco qm mwnÀrqrkknck r¹gv u²i gk¹ n DEVO 4260 30 X0 30 o²i w0 qw 8960 30 ô C wfq/ o^ap{rqrkknck. o l¹pv qtej¹kf gc/ngt²v¹ul gv DEVO 320 30 ô C wfqo^ap{rqrkknck fgo k^an¹» ul gtrg c xkfi mwnÀrqrkknf dcp0 Xkfi x0 5330 30 ô C Vcnet²nqu¹i k Dk¹qv¹i cnpc¹o gl k r0Pggp0478030

3476 34;0 r0 C wfqo^ap{rqrkknck ul gtxgl gv¹gm kuo gt¹v²u²p²n c pgo |gv i { r¹uk^a *qtul^ai i { r¹uk+ kqo^ap{qm pcr¹m c r¹vd¹reku¹ v¹nek o gi xkfi i 1¹uqm o gmgw nky p j¹cul¹p^av xgwgo c Oci {ct{ \ qn¹p¹»n ul gtn¹gul v¹gv j¹cv¹o cu

o 2^gtv j kxcvqu ncf x^ap{pcn< C Oci {ct Vwf qo^ap{r qrknc Cnr xgv²ug/
C vx^addk hgn f²uv mgi 2^uU rfi o gi xkfi i²lc c p²o gv p{grx^avf qn/
i q|^au< Fkg Gpwngi wpi glpgt lqvtpcvkqpcrp Y kuugpuej chur qrkam Ngkr/
|ki. 3; 540 G nfv j kxcvqu ncf x^ap{ cf cvk^a ncrf dcp o cdefq p jcu p^an/
vo 0 ô C I {Álvo 2^p{gi {gvo grlpf w²t^atc 2^u hgn f²u²tg xqpcvnu|»ici dgeugu
cf cvqm vcrf j cv< m c nfv gvn| hÁ gvdgp< C| Qtu^ai qu Oci {ct I {Álvo 2^p{/
gi {gvo Mcf x^ap{ck0 K0 Ekmu0 r0 HÁ gv0 Dr guv. 3; 530 C nrgvng²utg xqpcv/
nu|» hqvqucdd pgo|gvi { r²uk f qmvo gpwo qnev Mrgdngdgti Ád>n ncf v0
DQV0 96ô 34; 0 30 ô C vgi gv²i gm r^atvqir^at>n Pggp0 442ô 4450 30 ô C nkhgn/
f²uÁnj 34 ul Ám²i gu cvo qu l²t^at>n DEVO 5320 30 ô C pgo|gk nfv o gi dgeuÁr²u
o ggi 2^tn DEVO 4; 30 30 ô C| 3^anu²o^ap{ cv c o ci cu o xgn²i u gtxgdgp
Xkfi x0 ;; 00 ô C r^atv qrknc u| go r qvqm nkv²u 3434²ug w0 qw ;; 00 ô C hÁ/
i gvngp²i hqvqu²i c wf qo^ap{dcp DEVO 3550 30 ô C| cf>j kxcv n pgo cmer/
o cu rgtugn cf qo^ap{qm ul^ao^atc DEVO ; 700 ô C I { lvo 2^p{gi {gvo vx^addk
uqt²j q| x0 30 J >o cp. Oci {ct uqtu ô o ci {ct j kxcv² u 48: ô 48; 0 30 ô C| Q²/
ul^ai qu Mfv{ xhqi cm k 2^u Dkdrqi t^a hck Mfv r qv>n 30 Rcvngpgt K^ap ekmf v.
Oci {ct. Vwf qo^ap{r qrknc 567ô 56; 030

352ô 3530 r0 C Oci {ct Vwf qo^ap{qu Cnrf²o lc o gi ugi v²u²tg xqpcvnu|»
cf cvnev c pgo|gvi { r²uk kcvnd>n *g|gm nfv Án c hqvqucddenev Mrgdngdgti
mÁv²p ncf v< DEVO 352ô 36500: vx^add^a Dcrqj j Igp 34ul ghqi ren> kuo gtv²u²/
d n *Oci {ct{. Vwf qo^ap{r qrknc 697ô 6: 20 30+ xgvgo 0 C pgo|gvi { r²uk v²t/
i {cfr uqp vgw *c 3530 30 k²| gvw+ p{krvnu| cv Mrgdngdgti pgm c| 3; 440 pqV0
520^ap vctvq w dgu²f²d n xc< 0 ô C Xki {^a}/>j ci {cvnt>n MM0 55ô 580 30 ô
X030²i Dgt| gxl{. Go r07; ô 84030

354ô 3550 r0 U gpi 34i {k Crdgtv Mrgdngdgti t n Go r0 55; 0 30 ô C j kxcv/
nu ncf x^ap{ e²p g< C vto 2^ugv. qtxqu. o ul cnk 2^u o gi icl fcu²i wfv qo^ap{k
nu²i tguu wu o vprf rvek Dwcr guv. 3; 480 2^{xk} lcpw²tku 5ô : 0 U gtnu| vgw
ft0 I qtnr U^apf qt. Dr guv. 3; 480 C| kf gxpvcvnu|» hqvqucdd f qmvo gpwo qnev
Mrgdngdgti mÁv²p ku ncf v< DEVO 366ô 42400 ô C| kf r qv>n DEVO 3; ; 00 ô
Mrgdngdgti o gi p{k> dgu²f²g DEVO 369ô 3780 30 ô C| Qtu^ai qu Vgto 2^ugv/
wfv qo^ap{k Vcp^aeut>n dgp{Álvq w v4x²p{lcxcuv 2^u cppcm kpf qnqir²uc DEVO
377ô 39; 030

356ô 3570 r0 Uo kj h dk vqu o ci cvt²u²t>n DEVO 3; ; 0 30 ô C U²ej gp{k
Kvx^ap wfv qo^ap{qu v²tuc²i t>n Xkfi x0 33800: c j cv²unfv o gi qu v²ut>n w0 qw0 ô
C ux^adj gi {k eukri xk²ui^an> DEVO 475ô 4790 30 X0 30 o²i Vcuu Cpvcn C eukri/
i^aul cv o Ánc. lgrpg 2^u l3k lg jcl^apndcp. Oci {ct{. Vwf qo^ap{r qrknc
89ô 96030ô C nvn²tc ncvu| v>lf l^a vo gi xkfi i²lc j cuqprv DEVO 478030

358ô 3590 r0 C J g{f g/l²rg tghngmtt>n DEVO 4780 30 ô C o ci {ct dkn>i kck
a²mqo^a u| gtxgl²u²tg k^ap{w> v4gmx²ugnt n 30 Xgt^at Hki {gu 34ul ghqi nr²u²<
C o ci {ct nkt^an k dkn>i kck kpv²| gv Vlj cp{dcp. Oci {ct{. Vwf qo^ap{r qrknc
5; 9ô 62: 030

35: ô 35; 0 r0 C| 3; 470 fge0 47./k eknm Ád>n ncf xc DEVO 366ô 3680 30 ô
Mrgdngdgti c Dcrvqpt>n MM0 42ô 450 ©C0 3: 6ô 3: : 0 30 ô C| kpf qnqir²ud>n
xgw k²| gv< Owpnr²vqm 9220 *DEVO 3940+ 30 X0 30 o²i Pggp0 8: ô 920 WC0
3: 6ô 3: : 00 ô C| 3; 480 cwi 0 460² eknm DEVO 424ô 42900 ô C| crcr m rgv²gmqt
o qpfqw dgu²f w0 qw 429ô 4340 30 ô Mrgdngdgti 2^tf gm f²ug c| kpv²| gv
k^ap< J cpn>. Go r04370L0

362ô 3670 r0 J tpcem go r²nkcv²t>n DEVO 3930 WC0 3; 5ô 60 30 ô Cn/

j qht»n DEVO 3880 X0 30 o 2i w0 qw 8760 8780 30 0 C f c j r g o k n u p e g r e k e o » f q / u l p u t » n DEVO 4230300 C r i i { o a p { k u k o g i q n f a u g n p { g k n P g q p 0 3 3 0 3 4 0

960 970 30 0 C r g i p c i { q d d a m A i g r k j g w p T c x c u l N a u l u » n x c n 0 C l G 3 x 3 a l p i a t » n DEVO 4220 423000 C h x a t q u o c i c v c t v u c P g q p 0 3 3 7 0 3 3 ; 0 0

C j q l | a l a t w f u k n 3 a g r g | g w u 2 i n f t 2 u g P g q p 0 9 8 0 3 0 6 C x l f 2 n k x a t q u m o g i 2 t v

a r f q c v n f u l u 2 i g P g q p 0 3 2 4 0 3 0 6 C v x a d d k h g l n f 2 u k a p { c P g q p 0 3 2 6 0 3 0

C r i i { o a p { q u k r q e u q n c < c t A v h e n g v g . d t w r i k u 2 m P g q p 0 3 6 8 0 3 0 C w f q o a / p { q u u l g t x g l 2 u j u l p c DEVO 660 0 0 u l v 3 p f l c l p m o g i u g o o k u A r f u g DEVO 7 6 6 0 0

3680 3740 n0 C v u l x l u g n q u l v n l u l g p x g f 2 u g k n DEVO 7: 20 30 0 | t v g m k u 2 i g v p g o r g j v k o r t q x k a r p k P g q p 0 3 9 0 3 0 0 / C n 3 a c m e m c l q w e m i { g t o g m g k p g m v p w o a p { k u g i 2 n g DEVO 5490 P g q p 0 3 4 0 3 0 0 C p 2 r k v g j g u 2 i g m n k x a r u l / v u c DEVO 5470 74: 0 520 76900 C v x a d d k h g l n f 2 u t g x q p c v n q | » r i x 0 30 J » o c p .

O c i { c t u q t u 0 o c i { c t j k x c v u 4 3 9 0 / 4 4 4 0 3 0 0 C n k x a r u l v u n f t 2 u g c o c i { c t o A n d e p < n f | k t c v u c p { c i c r r l a p 0 0 C u l g m g o k x g | g v t 2 v g i h p v q u a i c DEVO 6: 90 85: 0 30 X0 30 o 2i O c i { c t { e k m f v C x g | g v u l c n g o d g t g m n r r | 2 u g 0 * V w f 0

p c i { A g o 3 4 4 0 3 5 5 0 3 0 0 C m A n f a f v n p g o | a t m | j c w p m g n DEVO 3: 70 30 0 C p { w i c v q u a i . o l p v 3 a 3 m o c i { c t m w m w a r k u r t k p e f k w o L J | 0 6: 0 7 5 0 3 3 5 0 3 3 ; 0 M M 0 4 5 4 0 4 5 9 0 0 X 0 3 0 o 2 i M q o k u . G o r 0 6 5 0 0 0 C m w m A r q r k s k n e k l j 2 /

u l g t n X k f i x 0 3 3 3 0 L J | 0 3 3 5 0 6 3 ; 0 3 0 0 C | A o c i { c t 2 t v g o k u 2 i t n L J | 0 3 3 ; 0 3 0 0 U 2 e j g p { k V t g h t v . V k u c K w x a p r 2 r f a l c DEVO 6780 30 0 G m g p u 2 i g l o m

r t q r c i c p f a l c DEVO 3: 90 P g q p 0 3 2 7 0 3 0 0 C t 2 i k o c i { c t q m m A n f a f k v p w r / o a p { c k DEVO 3: 90 30 0 P g o g r i g i { g u g m g t h e u l f 2 u g P g q p 0 4 3 0 4 8 0 3 0 / 0

C v A d r q p v p x c n a w 4 2 u n 3 a g r g | g w u 2 i g L J | 0 : : 0 3 0 0 C m w m A r c v g t A n g v p

p l p e u j g n g c l g t u l c n q u p { q o a u p c m L J | 0 3 3 ; 0 3 0 0 C m w m w a r k u n e r e u q r / v m l c p g o n g x g t j g v m d g g i q l u l n w u o q o g p w o q m DEVO 4580 4780 30 0

C m w m w a r k u n e r e u q r v q m p g o r g j v p g m g i { q r f c n a c m L J | 0 3 3 ; 0 3 0 0 C p 2 o g v o c i { c t m w m w a r k u n e r e u q r v q m » n D g e n g t . G o r 0 9 ; 0 3 0 0 / M i g d g n d g t i c l e p i q n /

u l a u l p 2 r g m t n DEVO 7490 8620 M M 0 6 2 0 4 5 5 0 4 5 9 0 L J | 0 4 3 5 0 4 3 ; 0 3 0 0 C m A n f a f k o c i { c t w f q o a p { q u t j g n g n v c r g i v g i g u g d d g p O c i { c t { w f q o a p { /

r q r k s k n e k 3 a u l g h q i r e r u p c m p 2 o g v n k f a u c k u o g t v k = c f c v c k o c v c v x a d d k c m d e p p c i { q d d t 2 u l v g d d n c l 3 a u l g m f l u d » n x g v g o a v

3750 37: 0 n0 C n u p u c p k p a r q n k w f q o a p { q u l p v | g t n 3 0 O c i { c t { . V w f q o a p { r q r k s k n e 6 7 9 0 3 0 X 0 3 0 9 2 0 9 3 0 3 0 0 C r e t r o g p k p { k r v u l | c v c l 3 a u l v 3 p f l c u q m r f u l a o a t » n DEVO 7750 30 0 C v 3 a 2 p { l c x c r v c k p f q n q r u d » n

c 37600 k f 2 | g w t 2 u l r g v DEVO 3: : 0 0 0 C d g t r k p k p v | g t n O c i { c t { . V w f q o a p { / r q r k s k n e 6 7 9 0 6 8 3 0 0 0 I t c i i g t T » d g t v n DEVO 4: : 0 4: ; 0 0 X0 30 o 2i O c i { c t { e k m f v T » d g t v I t c i i g t c m Y k u g p u e j c h u r q r k s k n g t 0 * V w f 0 p c i { A g o ; 9 0 3 2 4 0 0 0

0 C d 2 e u k o c i { c t m w m w a r k u l p v | o 2 p { g m t n O c i { c t { . V w f q o a p { r q r k s k n e 6 8 3 0 6 8 5 0 3 0 0 C d 2 e u k i a t f c r c n v t » n P g q p 0 3 3 2 0 3 0 0 / C t » o c k o c i { c t v 3 a 2 / p g k l p v | g t n 2 u c v x a d d h g l n f 2 u t n O c i { c t { . V w f q o a p { r q r k s k n e 6 7 7 0 6 7 9 0 0 0

R e n c | q H e r e p l e t k P g q p 0 3 2 7 0 3 3 2 0 3 0 0 C m w c w m u l 2 v u l v u t » n w 0 q w 3 3 2 0 3 0 0 C i 3 a 3 a 3 a u l g n 3 a g v u g m t n J q t x a y G p f t g h e r g i | 2 u g k c l k t c v q m

n 3 a v v n i j c w n 0 X0 30 o 2i 55: 0 30 0 C m A n f a f k n e r e u q r v q m n e r f 2 u p g m c r r g r g k n O c i { c t { . V w f q o a p { r q r k s k n e 6 9 3 0 6 9 4 0 3 0

37; 0 3840 n0 C m A n f a f k o c i { c t l p v | g m t n 2 u c o c i c u o x g m u 2 i e 2 n v u l q n i a m 3 a u l v 3 p f l c m t » n c h p v q u e d d f q m w o g p w o q n e v n k f v c DEVO 3: 2 0 3: : 0 3 0 0 C r t q v n e k e g m e p DEVO 3; 40 30 v x a d d a P g q p 0 3 3 0 4 8 5 0 3 0 X0 30 o 2i

X k f i x 0 3 3 4 0 3 0 0 C u l g r n e k e t » n x 0 30 3; 9 0 3; 7 0 0 0 C h e v n 2 t v g m k u 2 i p { q o » /

t^at>n hqpvu cfvqm Fqo cpqxuln U^apfqt tgmqtK Äppgrk dgu²f²dgp< C|
 gi{gvo k qmcv^u 2u nix^arculv^u 2u c w^af^oap^aqu ugi²f^ugo²n|gv n^at²f²ug0
 Dr guv. 3; 620 C dclqm o^at grⁱ nqt^ap lgrgpvngl vgn0 Gtg xapvcvnl>»ci x0 3/0
 Okvc{ ekm^av< C p{wi qfvc² 2u p{wi vcrp^o Oci{ctu^a 3; 480 ÄÄ 60 ö ÈQr/
 vko luv vgtxnqx^aeu xci{qm^a Pgp0 36: ö 3750 30 C j|l^aner euq^af> p{krvnl/
 |cv w0 qw 37; 0 30 ö Dgvj rrp ulgtkv Mrgdgnudgti cm^akr m^aÄr qrk^akr^av ku hqn^avcvq
 WC0 800 ö Dgengt kf²|gw p{krvnl|cv Go r0 9: 00 ö C m^aÄ^af lgm grkuo gt²u²/
 t n J mgmt. Go r0 970 30 ö C n^api tgu^u wuq^u xcn> ulgtgr r^augnt n Mqt^ap{k
 w0 qw 4890 30 ö C| kf²|gw qtxqk hqn>»kcv< Fgwuej g Ogf k l^akviej Y qej gp/
 uej tkv 3; 520 660 ul 0 ö Mrgdgnudgti m^aÄ^af k gn cf^auck n^aÄ Än c hqpvucddem c
 n^akgvngl n< Vlpi ct^akviej M^aw^atr qrk^am pcej fgo Mlki g *Dgtrk⁰ ö Nc eqr/ g/
 cvh fgo I/gdlgv fgt j qj gp M^aw^a *D²eu⁰ ö Wpi ct^u v g^ani g^aej lej vlej g
 Ugp^avpi w^apf uel^ag M^aw^a *Uqenj qm⁰ ö Ngu hqpf go g^au fg n^a eqr²tcv^aq
 kvngeweng r qn^ap/j q^api tqk^ag *Xctu>0 Ol^agl gm c dgu²f gm o ci {ct^an ku
 o gi lgrgpvnl J kcvnl^aucko c o ci {ct ul^akgi gmtg xapvcvnl pcn0 ö C dgtrk
 gn cf^au o ci {ct^an DEVO 435ö 4540 30< c t>o ck gn cf^au o ci {ct ul^akgi g DEVO
 454ö 474030<c d²eukgn cf^au o ci {ct ul^akgi g Xk^ai x0; 5ö 339030

385ö 3860 r0 C| kf²|gw d²euk per kcr< Uwpf g. 3; 520 hgd0 420 ö C unqem
 j qm k gn cf^au o ci {ct^an Xk^ai x0 37; ö 3: 40 30 ö C| go r^agw ncf x^ap< C^au
 fgp Hjtuej vpi uctdgk^a fgu vpi 0 k^au^awu k^a Vctw *Fqtrcv< j g^ate^avi gi dgp
 xq^a Ugrjcp x0 Eugng{. Vctw 3; 520 ö M0 G0 U^aÄ n^aÄgo 2p²v c euc^afk
 i {lgo 2p{dgp t|^aÄ Ät^ai nix^ai^aud>n kuo g^ago 0 Oci{ct^an Dc^ap Crcf^at hq/
 f^au^adcp ncf v Eugng{ kf²|gw n^aÄp{xg0 P²o gv hq^af^audcp ku o gi lgrgp0
 C xctu>k gn cf^au o ci {ct^an Xk^ai x0 3: 5ö 4290 r0 ö C| 2ul cnk tqn^ap p²r gmn
 xcn> n^are uq^avnt>n 30 Eugng{ K^aw^ap ek^am^av Rguk J^ar. 3; 520 qm0 390 K^a
 xcp ul> c K^a0 h^app/wi qt n^api tgu^u wut>n 2u c K^a0 gn n^aÄp^au²t r0 ö C tqn^ap
 p²r gm per^at>n Rguk Pcrn> 3; 520 qm0 320 *Ucd> N^aul n^a ek^am⁰ ö Mrgdgnudgti
 2ul cnk Ä^at>n 3^aul gh^ai rcn> ek^am< D^ap Crcf^at. I t>h Mrgdgnudgti 2ul cnk Älc0
 VÄ^ap ZK^a0 *3; 52+ 3ö 60 ö X0 3/0 o²i Vguw²tp²r gm j c^al^adcp. Xk^ai x0 436ö
 43; 030

387ö 3880 r0 C o ci {ct pgo|gv pci {ulgt jct^at>n DEVO 8430 r0 ö X0 3/0
 o²i Pgp0 3290 30 ö C Eqr²tcv^aq kvngeweng/t n Oci{ct{. Vw^aq^ap{r^ark
 vkr. 77ö 77; 00 ö C vcpuxgtuc^a n^agi 2ul^au²t n Xk^ai x0 42300 ö C m^aw^at^aku
 xapvcvnl^auqm m^aÄr qrk^ack jcv^au²t>n MMD 4; 90 30 X0 3/0 L| 0 ; 20 30 Hqpvu
 Dgvj rrp p{krvnl|cv WC0 80 30 èO l^av o ci {ct m^aw^aul o k^aul vgt cm^akr m^aÄr qrk^a
 vkr^av ku hqn^avcvq c ul> ulqtqu 2^avgn²dgp⁰ ö U>x^ati^auc c o gi 2^at^av w^ap
 Pgp043030

389ö 38; 0 r0 C w^af^oap^aqu v^at^aw^avqm 2u l^av²|o²p{gm qtu^ai qu ul^akvu²/
 i²t n Oci{ct{. Vw^aq^ap{r^ark^akr 735ö 7430 30 X0 3/0 o²i Vw^a0 pci {Ä go
 43; ö 4550 30 ö Mqtwp^ac pci { gi {u²i gm c o co o w^al^av²|o²p{gm k^aglg Xk^ai x/
 5640 30 ö C Uwr^atcv^al^agtuc^at>n Oci{ct{. Vw^aq^ap{r^ark^akr 8340 30 DEVO
 3: ; ö 32300< vx^addk vgtxm Xk^ai x0 322ö 3390 30 ö C Eqtxlp/tgp^a ncf x^ap<c<
 J w^apfck O^av^au0 Mclc c Oci{ct Eqtxlp/r^ape 2u c Oci{ct Eqtxlp/n^aul qtÄ
 w^acl^app^acl^acm v^aÄv^ag0 Dw^acr guv. 3; 630 C n^aÄgv c| cffli gr^aepi|qw v^a
 go r^and^ag²f gv v^aul n^aÄtg0 C dgu²f gm n^aÄ^av xcp Mrgdgnudgti ugt^ag^acxc>
 dgu²f g *3; 540 hgd0 45+0 9ö 3: 0 30 ö Tcxul N^aul n^a dgu²f g *3; 550 hgd0 45+ o²n^a
 lgn^a|²v cflc Mrgdgnudgti pgn< i xq^av c r^agi n^apm²vdd. r^agi i c^anr^avdd u

wi {cpcnmt c n̄i pci {qdd a m̄ Å o ci {ct m̄w̄Ar qrk̄kn̄w̄0 G| c v̄u v̄Argv ku c|
cm̄q̄v̄ uc. l̄gm̄r̄r̄gu ūw̄i a ti { lv̄ jcūd v̄pv̄ tci {qi a uqm̄ o quv̄ r̄dq̄d} » r̄pi qm̄ »u
j q̄p̄cr 2 dtgf v̄Ā gm̄ 3̄aūl gh̄q̄i a ur̄t c *530 300 C| gtf 2 n̄k 2 u c n̄rḡwk̄ q̄t u i t 2 u gm̄
x̄k̄ūl̄ ceuc̄q̄r̄ uc cm̄m̄ a xcn̄ c| a m̄o h n̄i h̄gu dd̄ ḡj̄ cv̄ t q̄l a uc c Eq̄tx̄l̄p/n̄i peqm̄
u a o a v̄k̄ gp̄ 3̄tg. c Eq̄tx̄l̄p/n̄q̄ūl q̄t̄Am̄u a o a v̄p {q̄r̄xc̄p̄t̄e go ḡnḡ0

3926 3930 r̄0 G| {ḡvgo ḡlpm̄ uqtuc DEVO 6; 60 30 δ M̄rḡd̄gn̄d̄gti p̄go c̄net
pci { gi {ūi gv̄ x̄gūl f̄lḡpk̄ DEVO 6; 9δ 6: : 0 30 δ C u| w̄n̄eḡūl f̄k̄ u| q̄rk̄f̄ c̄k̄v̄ u DEVO
6260 6270 742030δ C v̄4x̄2p {v̄k̄ūl v̄rḡst̄ n̄WC03; ; 030

3946 3950 r̄0 C| w̄w̄n̄qt̄ gn̄ vk̄ h̄rḡn̄ ūr̄i DEVO 7230 30 δ G| {ḡvgo o 2 u a tr̄i u
uδ0 DEVO 6; 2δ 6; 40δ δ C v̄4v̄p̄ḡrḡo c̄ri j̄c h̄rḡf̄ n̄ḡ| km̄ o gi c̄t̄t̄»n̄ c̄nk̄ m̄w̄Ār̄ a v̄
v̄q̄o d̄qn̄ DEVO 7580 N δ P̄ḡj̄ 2| ḡr̄f̄ 3̄p̄v̄ḡpk̄ c m̄w̄Ār̄ a d̄cp. o k h̄rḡūnḡi gu. o k p̄go
DEVO 920 30 δ C m̄w̄Ār̄ h̄ 3̄p̄f̄ c| gi 2 u| p̄go | gv̄ Ā | ḡ DEVO 6; 40 δ C u| q̄ek̄ r̄/
f̄go q̄nt̄c n̄r̄ x̄l̄ugn̄ < Gūl v̄gti a n̄q̄u L̄p̄qu= x̄0 3̄0 M̄M̄D 3980 30 δ G| {gū pci {/
d̄k̄v̄q̄n̄q̄ūmo ci c̄v̄t̄v̄ uc M̄M̄D346030

3966 3980 r̄0 G| {ḡvgo k a m̄rc̄q̄v̄m̄ c ; 2/gu 2 x̄gn̄d̄gp̄ DEVO 7440 30 X̄0 3̄0 o 2 i
M̄M̄D 3530 30 δ C l̄qi c̄n̄cf̄ 2 o k̄m̄ 2 u v̄4r̄g h̄ k̄un̄q̄r̄ m̄ M̄M̄D 4360 30 δ C o ci {ct
Eh̄q̄n̄f̄i ḡ f̄g H̄t̄cpe 2 v̄t̄x̄g M̄M̄D 4376 4380 30 δ C| gi {ḡvgo ḡnt̄g 2 u c w̄f̄q̄o a p {qu
a n̄i uq̄nt̄c x̄q̄pc̄w̄q̄} » h̄p̄v̄qū uc̄v̄k̄ūl v̄n̄ek̄ c̄f̄c̄v̄qm̄ O ci {ct { . V̄w̄f̄q̄o a p {r̄q̄rk̄l̄n̄e
: δ 320 3; 70 30 δ C w̄f̄q̄o a p {qu r̄ a n̄c n̄r̄f̄ 2 uḡ DEVO 7450 30 δ C| gi {ḡvgo gm̄
h̄pp̄v̄t̄v̄ ūr̄ p̄cm̄ k̄i c| q̄n̄c M̄M̄D 490 r̄0 δ C ēo ci {ct C̄r̄h̄ 4f̄ k̄uḡp̄c̄f̄c h̄r̄ p̄cm̄
o ci c̄v̄t̄v̄ uc DEVO439030

3996 39; 0 r̄0 C r̄q| uq̄p {k gi {ḡvgo v̄cp̄ a ēūr̄ p̄cm̄ n̄i 4 u| 3̄p̄ k̄t̄c̄v̄ c o gi t| 3̄4v̄
r̄gx̄rḡm̄ n̄i 4 3̄4m̄0 δ C r̄2euk̄ gi {ḡvgo t n̄ O ci {ct { . V̄w̄f̄q̄o a p {r̄q̄rk̄l̄n̄e 39; δ 3; 30 30
X̄0 3̄0 o 2 i DEVO 8; 0 5; 70 6; 5δ 6; 80 30 V̄q̄x̄ a d̄dk̄ c̄f̄c̄v̄qm̄ L̄J | 0 88δ 940 X̄k̄f̄ i x̄0
48; δ 4940 30 δ C| gi {ḡvgo gm̄ h̄rḡr̄f̄ c̄v̄n̄i 4 2 p̄gm̄ m̄Ār̄ 3̄p̄d̄ 3̄4 x̄q̄n̄ t̄ »n̄ DEVO 32δ
330 30 δ C r̄2euk̄ gi {ḡvgo h̄rḡr̄f̄ c̄v̄ t̄ »n̄ 30 o 2 i P̄ḡq̄p0 4370 30 δ R̄2eū u| 0 n̄k̄0 x̄ a t̄qu
n̄i 4 3̄p̄ūr̄i 2 p̄gm̄ go r̄n̄k̄c̄v̄ c r̄2euk̄ o 0 n̄k̄0 Gt| ūr̄ d̄gv̄ w̄f̄0 gi {ḡvgo v̄q̄x̄ a d̄d̄h̄l̄nḡūl/
v̄ūt̄ n̄ R̄2eū 3; 4; 0 δ C l̄cp̄w̄ R̄c̄pp̄q̄k̄w̄ v̄ t̄uc̄r̄i ḡr̄k̄p̄f̄ v̄ ūr̄ t̄ »n̄ Ūw̄ a p {k
Go r̄0 326δ 3270 30 X̄0 3̄0 o 2 i F̄w̄ p̄ v̄Ān̄ 3; 530 l̄Āp0 330 *M̄rḡd̄gn̄d̄gti d̄gūl 2 f̄ḡ c̄
l̄cp̄w̄ R̄c̄pp̄q̄k̄w̄ v̄ t̄uc̄r̄i c̄r̄c̄n̄w̄ n̄i 4 i { r̄ ūr̄ p0-

3; 2δ 3; 30 r̄0 C H̄gt̄p̄e L̄| ugh̄ w̄f̄0 gi {ḡvgo t n̄ O ci {ct { . V̄w̄f̄q̄o a p {r̄q̄rk̄l̄n̄e
3976 3990 3; 60 30 X̄0 3̄0 o 2 i DEVO 722δ 7240 743δ 7440 76; 0 575δ 5760 P̄ḡq̄p0
93δ 980 433δ 4370 30 V̄q̄x̄ a d̄dk̄ c̄f̄c̄v̄qm̄ X̄k̄f̄ i x̄0 495δ 49; 0 49; δ 4: 50 4: 6δ 4: 90
WC0368δ 373030δ C u| c̄d̄c̄f̄ v̄ t̄k̄l̄ a v̄ n̄q̄nt̄ »n̄u| »n̄ ēk̄m̄c̄| Gūv̄d̄gp0

3; 3δ 3; 70 r̄0 C f̄gd̄tḡep̄k̄ gi {ḡvgo o gn̄ m̄rc̄ēūq̄r̄c̄v̄ū v̄t̄x̄gm̄ 3; 35/d̄ »n̄ c n̄i /
k̄t̄c̄v̄m̄ n̄i 4 3̄4m̄0 δ C| gi {ḡvgo k 2 r̄ Arḡm̄ a m̄rc̄q̄v̄c 3; 44/d̄gp̄ WC0 3; : 0 30 δ C h̄rḡ/
c̄x̄c̄v̄ ūn̄q̄t̄ o q̄p̄f̄q̄w̄ u| c̄x̄cm̄ DEVO 6; 90 30 δ V̄k̄ū c̄ K̄v̄ x̄ a p̄t̄ »n̄ DEVO 5760 30 X̄0 3̄0
o 2 i DEVO76: 030

3; 8δ 3; 90 r̄0 C h̄ x̄ a t̄qūt̄ »n̄ DEVO 792δ 7940 M̄M̄D 3480 4630 X̄k̄f̄ i x̄0 568δ
576030

3; 9δ 3; 70 r̄0 C h̄ k̄un̄q̄r̄k̄ j̄c̄ni c̄v̄m̄ uc̄v̄k̄ūl v̄n̄ek̄ c̄f̄c̄v̄k̄v̄ 3̄4ūl ḡ a n̄f̄| q̄v̄c̄ N̄cn̄f̄
F̄ḡl u c̄ O ci {ct { \ q̄n̄ r̄ p̄v̄ »n̄ u| ḡt̄n̄ḡūl v̄gw̄ V̄w̄f̄q̄o a p {r̄q̄rk̄l̄n̄e 43δ 780 30 M̄rḡd̄gn̄/
d̄gti h̄p̄v̄qūc̄dd̄ ēk̄m̄ḡk̄ 2 u p {k̄r̄c̄w̄q̄l̄ c̄v̄k̄ < L̄J | 0 ; 5δ ; ; 0 P̄ḡq̄p0 49δ 4; 0 65δ 68
M̄M̄D 47; δ 4830 30 δ C j̄k̄c̄v̄c̄p̄q̄m̄ h̄rḡūr̄i t̄ n̄ c| gi {k̄m̄ ūq̄r̄t̄p̄k̄ r̄t̄q̄i t̄c̄o o d̄gūl 2 f̄/
d̄gp̄ u| »r̄0 δ C f̄l̄r̄q̄o c̄ p̄go d̄gr̄r̄ l̄gi { X̄k̄f̄ i x̄0 444δ 4450 P̄go x̄ci {w̄pm̄ ūq̄n̄e<
k̄p̄n̄i d̄d̄ v̄4d̄d̄gv̄ n̄gm̄ f̄q̄i q̄l̄ p̄w̄pm̄ M̄M̄D 350 30 δ C n̄k̄c̄n̄v̄ q̄rk̄l̄n̄ t̄ »n̄ O k̄q̄v̄c̄ { K̄v̄
x̄ a p0 δ C u| ḡm̄go k u| f̄x̄q̄p̄cn̄ go ḡm̄ḡf̄ 2 ūr̄ v̄ o w̄c̄w̄ uc̄v̄k̄ūl v̄n̄ek̄ c̄f̄c̄v̄q̄n̄v̄ O c̄m̄k̄

L² pqu kf0 o Od»n xgwgo 0 X0 30 h ngi c 9: 0 9; 0² u 3; ; 0 3; 60 30 0 N0 o² i X^a tqv/
mwv² c. 3; 5: 0u| gr v0520

3; 76 3; 90 n0 Rctro gpyk p{krvnu| cv c pwo gtwu ercwvut»n 3; 450 1A0 530
X030² i DEV06256 6260 65: 0 7640 7680P gqp03766 37; 030

3; : 0 3; ; 0 n0 C| 3; 470 pqx0 47/k p{krvnu| cv DEV0 7670 30 0 C f² k² n² i² r² k
kp² v² | o² p{gm hglrv² u² t² n DEVO 7256 7270 30 0 X0 30 o² i MMD 896 950 30 0
C p{gkvw^a u hqpvr^a i^c DEVO 5440 30 C f² k² nu| qe² k² ru A² i{gm^a mcrqv² t² n² u
tgp² f² g² u² t² n 30 O ci {ct{ \ qn² p kuo gtvg² u² v² u vtgx| gv² v< Go r² n² k² cv c| gi {g/
vgo k² h² A² r² i u| qe² k² ru i qpf² q² | u² p² cmo gi u| gtxg² u² g² v² ti {^a dcp. Dwf cr guv 3; 4; 0

4226 4260 n0 X^a tqv r qni^a t² u o xgn f² u Xk² i x0 5270 30 0 C x^a tqv r² k² k²/
n² t² c xqpcvnu| » hgn² i {² u² gm c n² i k² cvqu cp{ci n² i 3/4 0 0 C Rgv h² v² t² n WC0
3726 3730306 C| 3; 39/d nxcn» vcpw^a p{/vtx c n² i k² cvqnd» nxcn» 0

4266 4270 n0 Dwf cr guv xk² i x^a tqv^a hglrv² u² t² n MMD 44; 0 30 0 C xk² nk
n² r xk² gn mrgmk^a v² h² to^a n² f^a uc w0qw449030

4286 42: 0 n0 Mrgdgn² d² gi. o k² p² c xk² nk x^a tqv mrgmu i qpf² q² | » l^c X^a tqv/
mwv² c 3; 540 qm0 470 0 C fgegp² t² c² k² a² ek² n² t² f² u² g DEVO 4370 Xk² i x0 52; 0 30 0
C| A² x^a tqv r² k² k² n² k² h² r² h² q² i u² t² n Xk² i x0 4; 50 30 0 C x^a tqv r² k² k² n² c m² v² i p² r² gi
hqpvr^a i^c c v² k² p² qk n² t² u| c² n² c² WC0 3620 30 0 /C h² t² t² c² m² c² m² c² w² c h x^a tqv
cm² r² c² v² p² c² m² d² k² q² { v² w² c r² q² r² k² k² x² g² | gv² u² g LJ | 042030

42; 0 4340 n0 C | g² p² c² n² i /j cuq² r² cv LJ | 0 546 550 30 0 Pgo c r² r² g² mu^a o.
jcpgo c x^a tqv l² g² m² i c f² 3/4 v² w0 qw 5300 0 Gi {g² vgo² u² x^a tqv cuq² f^a u w0 qw=
vq^a dd^a Xk² i x0 4780 30 0 C xk² nk gi {g² vgo gm hglrv² u² v² p² gm q² tu² | i qu hqpvr/
u² i^c Xk² i x0 5; 00 0 /C h² cvn² t² v² gn k² i p² gm Dwf cr guv v² 4 gn² u² g w0 qw 6200 0
C xk² nk x^a tqv m² g² r² c² f² q² v² i^c MMD 4220 30 0 C| gu² v² v² n² k² u² | go r² q² v² q² m
hqpvr^a i^c Pgp0 3686 3690 30 0 C v² i² q² w n² i r² q² p² v² i² u² t² n² c n² i k² cvqnd^c.
vq^a dd^a Pgp0 350 30 0 C fgegp² t² c² k² a² ek² u² v² 4 x² p{vtxg| gv² v< c| Q² tu² | i qu
M² 4 qm² v² uk Vcp^a eu n² i p{ x² v² t² dcp t| 3/4 v² n² g² h² g² x² p² c² v² d» nku tgo 0

4356 4370 N0 C xk² nk mwv^a r² ku l² p{h² t² u² q² m hqpvr^a i^c WC0 3670 30 0
C o ci {ct Jcp| c LJ | 0 826 870 30 0 C o ci {ct x^a tqv U² g² cp| c Go n0 5296
52: 00 0 C| gi {g² vgo k x^a tqv m² 3/4 x² p² g² v² gn N t² u² g WC0 34; 00 0 C pci {u gi g² k
i qpf² q² v² Pgp0 3250 30 C x^a tqv r² k² k² n² t² n² x0 30 o² i DEVO 5556 5680 8726 8750
Pgp0 3226 3260 MMD 366 3; 0 3; 96 4230 4496 4530 LJ | 0 526 570 766 7; 0
35: 0 36; 0 Xk² i x0 3586 3620 3636 36: 0 4; : 0 5250 5266 52; 0 5686 5760 WC0
3476 34; 0 3526 3580 3596 35; 0 3626 3670 3746 3820 30 0 Hqpvr^a f² q² m² v² gp/
wo< C o ci {ct mwv^a r² ku gi {gu² v² g² m u² | gu² v² p² f² g² 3: 626 3; 620 Lgrp² v² u
c O ci {ct Mwv^a r² ku Gi {gu² v² g² m Q² tu² | i qu U² 3/4 gw² i g 3; 5; 1620² xk o n² i² u² /
t n0 Dwf cr guv 3; 630

43; 0 44400 C jwo cpk² v² m² v² vcpw^a p{qm hqpvr^a i^c DEVO 8276 82800
C| 3: : 50 v² 4 x² p{ u| gtxg² h² q² v² v² t² p² cm n² i g² r² g² gw² i g DEVO 64300 0 C v² 4 x² p{/
l² xcurev dgp{A² v² uc² n² t² v² t² v² q² v² d² u² f DEVO 6326 6530 30 0 G² 3/4 x² 3/4 L² | ugh
n² i² r² k² n² i q² r² k² v² t² g² t² n vq^a d² k² c² f² cvm DEVO 4960 LJ | 0 : 40 30 0 C i {q² tu x^a nq/
|^a u² q² m qn² | v² p² g² | u² i g² n² DEVO 43; 0 30 0 C i 3/4 3/4 p{g² v² to² u² g² v² p² v² t² k²
n² g² v² g DEVO666030

4466 4480 n0 C vcpw^a p{k tgh² to qm x² i t² g² cl² v² t² p² cm n² g² m² k h² n² v² g² k MMD
4780 30 0 C e² Nq^a dd² | x² i t² g² cl² v² u² i x² f² g² r² g² | ek² m² g² Xk² i x0 676 790 : 26 : 80
: 96 ; 40 4426 4490 44; 0 45600 0 C 44700 k² | gw p{krvnu| cv U^a t^a p{k O km² u/
»n Go n0 3240 30 0 C n² p² | gtxc² v² k² r² g² f² ci » i wu² n² »n Xk² i x0 : 60 30 0 C jcu² p² q² u/
u² i k u| go r² q² v² n² t² f² u² g Xk² i x0 : : 0 30 0 C u| c² d² c² f² r² a² n² m n² g² A² r² u² g MMD 4770 30 0

C i {qtu^h uucn nereuqrcvu vgtxgk n x0 30 P go gu \ qn^h p. Go n0 5480 30 C i {qtu/ ^huv gi {2 dnt^h pv Mrgdgnudgti o l^hku vgtu² i g w^h p c XMO 0 53.7; 3B; 540 u0 tgp/ fgrgv cxcwc c| gro² rpk lgn^h n^h4² r kunq^h n^hlcp tgp^h fu vcp^h tii^h a0 o C| 3; 56./ktghqto >n30J >o cp. O ci {ct uqtu^h o ci {ct j kcv^h u3; 3o 3; 9030

449o 44:0 n0 C n^h4² r kunq^h 2u c r^h v^h tv xcn^h n^h4^h fgrgo Xkfi x0 44:0 30 o C t^h g^h ni ko p^h | kwo t>n Xkfi x0 4:0 30 o C r^h g^h p{ n^h4² r kunq^h t>n DEVO 657o 6580 30 X030 o 2i w0qw67: o 6920B0o C n^h4² r kunq^h r kvc^h p^h tnr^h | 2ut nDEVO693o 6: 70B0

44: o 4530 n0 C r qni^h tk kunq^h t>n DEVO 594o 5950 599o 59; 0 788o 7890B0 o C p^h i {hlcvc o xgn f^h 2uk i >er qpt>n Pggp0 380 30 o C| qtu^h a^h i mwn^h Ati gqi tcl^h i^h / pcm vgtxu^h gt n^h4^h r^h v^h ug^h 2u c r qni^h tk kunq^h w0 qw 370 30 o C r qni^h tk kunq^h 2u c p{ qreql v^h n{ qu p^h 2 r kunq^h Pggp0 ; 0 o C r qni^h tk kunq^h 2u c | 2^h vgm k^h i k r tqrg/ vcl^h wu w0qw0o C r qni^h tk kunq^h 2uc x^h tqlecuq^h a^h u Xkfi x054; o 552030

453o 4590 n0 C r qni^h tk kunq^h r kvc^h p^h tnr^h | 2u tghqto lc MMD 4370 30 X0 30 o 2i c Hgu qmc^h v uk Mppi tgu^h wuq^h vctxw gn cf^h a^h u< O ci {ct Hgu qmc^h v u. Dw^h cr guv 3; 590 kko n0 : 5o ; 20B0 o C i {cni^h r kvc u| cni^h qmc^h v u hq^h vqu^h i c DEVO 7990 30 o C n^h4^h hgr^h tqi^h a^h u o gi x^h nq^h | a^h u^h pcm u| Am^h 2i gu^h 2i g MMD 4840 30 C hgu o g| ic l fcu^h i k kunq^h t>n 30 t^h 2u r^h vugudgp Mqo ku. Mwn^h Atc 2u r qrk^h knc.. Dr guv 3; 4: 0 377o 3990 30 o C vqx^h ddk hgn f^h 2ut n 30 J >o cp. O ci {ct uqtu^h o ci {ct j kcv^h u3; 9o 422030o C J gte| gi / k^h 2 | gvGo n0; 9030

45: o 4620 n0 C| 3; 8: /k v^h 4x^h 2p{ uqtuc Pggp0 320 30 o G^h 3x^h 3u L>| ught n DEVO 489o 4990 30 C| k^h 2 | gv c 4980 30 t>n xcn^h 0 o C| kunq^h Ai {k n^h4^h m^h 2i gm c| Gi {gu^h Aw f mco qndcp Pggp0 4720 30 o C dclqm qtxqu^h i c c| 2^h r^h m^h 2i 2u DEVO 5860 30 o C n^h4^h gi {g^h 2 unqt^h a^h mer qvqm d^h i^h rvc DEVO 5; 6o 5; 70 30 o C mwn^h At/ uvc^h ku v^h kckqu^h v^h n{ hgr^h n^h4^h v^h uc w0qw0

463o 4660 n0 C t^h i kdd vgtxgntg xqpcv^h | > cp{ci. wcr^h uqm k^h 2 | vgm c n^h4^h | kvcqnd>n0 o C ex^h knc^h qui qo dt>n Pggp0 730 30 o C| cr^h c o k^h pf gppcr k p^h 2 r kunq^h DEVO 5; 70 30 X0 30 o 2i w0 qw 79; 0 30 o Cf qir j Y ci pgtt n DEVO 54; 0 30 o C mwn^h Atc Ax^h gi j | k p^h 3x^h 2p{ Xkfi x0 380 30 o C p^h 2 r kunq^h t^h c xqpcv^h | > cfvcqm c Mrgdgnudgti ekmgldgp ku go n^h4^h gw j kvc.vcu^h n^h4^h cf x^h p{ dcp vcr^h i j c w m o gi c r^h i vgr^h guedgp< C o ci {ct p^h 2 r qmc^h v u0 Mcl^h c c o 0 n^h4^h xcn^h u^h 2u n^h4^h / qmc^h v u^h Ai {k o l^hku v^h tkwo. Dw^h cr guv. 3; 4: 0 G n^h4^h gy 680 30 qrk^h cuj c w c| cpc^h r / d^h gw o wute xqpcv^h | > k^h 2 | gv0 X0 30 o 2i LJ | 0 3440B0 o C vcr^h t^h 2 nqu^h i k dk^h qv u^h i k v^h ti {c^h uqm Pggp0 4950 30 o C n^h4^h r qpk k i c i c v^h udc^h x^h 2 i j g| xlv r^h v u^h a^h o / eu^h 4 m^h gp^h v u MMD523030

467o 4680 n0 C d^h 2euk dgu^h 2fd n xgw k^h 2 | gv Xkfi x0 ; 80B0 o C n^h4^h gi {g^h 2 unqt. a^h mer qvqnt>n DEVO 5870 30 o Qtqu^h qtu^h a^h i r^h 2^h r^h a^h lc Xkfi x0 3; ; 0 30 o C r qrk^h knc^h 2u mwn^h a^h rku fgo qnt^h elk 3u^h | gm^h r euqnu^h i c MMD 382o 3870 30 X0 30 o 2i Gtgn^h. Go n0 47; 0 30 o C| Ai p^h 2 r kunq^h t>n MMD 388o 3920 30 o C pci {u^h h p^h 2 r a^h o v^h u r^h j gv u^h i 2^h t n WC0 4270B0 o U^h k^h | M^h m^h a^h p 2u c o l^hku vgt^h gr^h 3/4m o gi x^h 2 f km Mrgdgn/ dgti mwn^h Ar qrk^h kn^h i v LJ | 0 32; 0 30 X0 30 o 2i c| Qtu^h a^h i i { r^h u Hgu j^h a^h pcm Pcr^h n^h v3; 4; 0 lwp048o 49o 6 C| gi {o k^h r k cpc^h r t^h 2 v^h t>n DEVO539o 53: 030

4690 n0 X0 30 DEVO779030

43: o /4720 n0 C o ci {ct vcr^h l xcn^h u^h i a^h d>n n^h4^h m n^h4^h pf w^h pk DEVO 54: 0 30 o C l^h t^h cpek go k^h i t^h puqm r^h 2^h r^h a^h i v n^h4^h | kvcqu lgi { | gv^h kldgp go r^h i gv^h 0 o C o ci {ct go k^h i t^h puqm 2u c vqx^h ddk hgn f^h 2u DEVO 583o 5840 30 o C vgr^h Ar^h uk xku^h qp{ qm^h >n qnq^h | qw pgj^h 2 | u^h i gm DEVO 5; 60 30 o C vcp{cx^h k^h i t>n DEVO 582o 5830 30 o C vcp{cn^h r | f^h 2u. o l^hpv p^h 2 r g^h ugf^h 2uk o q^h i c^h r^h 2u xci {qpu^h | gt^h 2u Pggp0 3470 N C| Ai j qph^h i r^h i v euq^h a^h lc w0qw386o 387030

4736 4750 *o* C *vc*{*cr*tqđr^oc. o. l^ov n^o4 r^ongf²uk n^otf²u WC0 3880 30 ô C *vc*{^antc o gi h^orgn *vc*{^onev ngm cm^oo c|pk DQV0 5890 30 ô C|^ancf^opqu kunq^odcl^ot^out»n DEVO 44; ô 4520 30 ô C p²r^okunq^om^on nk ngm o gpp^oAm c *vc*{^antc WC0 3860 30 ô C *v*4^ov^opgk gi {j^a|cm n^o4gr^ogw^oi^og MMD 4550 30 ô C f^oqmt^olpgt lđgtcđk/ o wu nt^okkr^ol^oc< Pgo |gk —h^oi^o 3; 4; 0 lcp0 30 *v*V^o 2^x c| ki c|u^oi u|q^oi^anc^ov^odcp^o0 ô C ucl^ov^oqu d^ov^ocr^oguk c^ov^oqu l^oft^ot^on DEVO 5840 30 ô C h^orgng^o|gk kunq^om^o m^onc^oo q/ u^ov^ou^o p^ocm n^otf^o2^oug w0 qw0 ô C *v*4^ov^opgk gi {j^a|cm o gi dgeu^oh^oi^ot^on Xk^oi^ox0 4940306 C *vk*|c|wi kgugv nLJ | 034; 030

4766 47 0 *o* C h^orgng^o|g^on^o4 k vt^ogwi c Fck^ot n x0 ^o30 R0 N^oiq{f 3; 480 cwi 0 470 ô C| QTNG o kunq^onek *h*^oi^ou^op *3; 4; 0 cwi 0 436 490+ gr^oj^ocpi|qw n^okt^oq^oi^auqm luo gt^ov^o/ *v*4^ov^o2^ou c o l^opk^ol^ovgt x^oncu^ov c n^o|k^ovcqu cp{ci d»n xg^ovo 0 ô Mrgdgn^odgti ekmg c *ë*xk^oi^op^o2^ogk *vc*p^ou^o2^ongm n^o< Gtn^o4^oeu 2^ou Vv^of^oqo^ap{. Pgo |gk —h^oi^o. 3; 4; 0f ge0380

4796 4820 *o* C p²r^oqmc^ov^out^o h^otf^oq^ow ^o3^ou^ol^ogi g^omt n DEVO 5726 5730 5836 5850 30 .. u^ol^ogh^oq^onc^o d^og^ou^ol^oo qn^o c r^otq^oit^oco o r^ogdq^o{q^or^ou^ou^ot^on MMD 4; 26 4; 70 30 Vqx^addk t^ou^ol^ong^ou c^of^ovcqm *v*ri^oij^ocw^om c| k^of^o2^o|g^ow j^ok^ovc^onu^o n^ocf^ox^ap{dcp0 X0 ^o30 o²i LJ | 0 3426 3470 30 l^oppg^o xc^o *3460 30+ c 47; 0 30 *v*ri^oij^ocw^o k^of^o2^o|g^oo Vqx^addk h^opv^oqu n^o4 r^ougm c p²r^okunq^ot^o x^opcv^ou^ol^o»nci DEVO 5696 56: 0 56; ô 5730 5786 57; 0 5826 5840 MMD 3826 3870 3886 3920 Xk^oi^ox0 4: : ô 4; 20 WC0 4246 427006 C *v*qx^addk h^oln f^o2^out n 30 J »o cp. Oci {ct uqtu^o o ci {ct j^ok^ocv^ou 39: ô 3: 30 30 4830 *o* C p²r^okunq^ock *vc*pv^otxt n DEVO 76300 X0 ^o30 o²i c| k^of^o2^o|g^ow j^ok^o0 n^ocf^ox0 3496 3580 30 ô C n^ok^ouf^og^o»x»nt»n DEVO 5396 53; 0 30 ô W^o {cpgtt n x0 ^o30 o²i c j^ok^o0 n^ocf^ox0 3596 36200 ô K^ovc^ock n^o4 ^o3^ow 2^ot^ov^ongu h^orgi ||2^oug^onv *v*ri^onc^o c n^ok^ouf^og^o/ »x»ntc x^opcv^ou^ol^o»nci 0 G^og^om xc^ou^ol^o p^ong^oi o²i m^ow^ou^ol^o m^onc^oo *v*ri^otu^oi^oc k^of^o2^op n^org^ovng^ol^o v^on0 H^opv^oqu^ocm *vc*tl^oc c n^ok^ouf^og^o»x»k u^ol^ogtx^og^o v^on^o4^or^ou^ov^o p²r^ogug^of^o2^ou p²r^ol^o»r^ovk 2^ou pgo |g^ou^o2^oik u^ol^ogor^oq^opv^od»n gi {ct^apv0 H^org^oq^oi^auc u^ol^og^ol^opv c pgo |g^ou^o2^oik x^ok^of^o2^ong^ogp c| kunq^onc gi {o ci^adcp pgo *w*l^oc d^ok^oq^ou^ol^ocpk c o ci {ct p{g^okw^of^au^o0 Gi^o2^ou^og^o o^au r^og^ol c| g^otf^oo²p{. j^oc c| kunq^onc o *w*pn^ol^ov c| »xq^of^a2^oc c^ocr^oq^ol^o v^on0 O^ol^opf^ogp q^on{cp pgo |g^ou^o2^oik x^ok^of^o2^ong^o h^ognx j^ogn{g. c^oj^oqn o ci {ct kunq^onc x^ocp. u^ol^og/ t^olv^og o ci {ct »xq^of^av ngm u^ol^ogtx^og^opk c| g^oug^ov^od^ogp. j^oc x^ocp gr^ogi^ogp i {g^oto g^on0 P^oci {q^op h^opv^oqu^ocm x^o2^ork c n^ok^ouf^og^o»x^auv p²r^ol^o»r^ovk u^ol^ogor^oq^opv^od»n k^o0 C p^ocn^o4^ok q^ov^oq^opm u^ol^ogtx^og^o2^ou^op²n u^ol^oo^o f^ov c ^ov^otuc^ocr^oq^o u^ogi^o f^ou^o2^oig^o. h^orgi c o ci {ct n^o4^o2^or/ q^ol^o v^on^ol^o r^og^op{cl^opc^om ^o3^ol^ovg^o o *w*pn^ol^otc0 Vqx^addk c^of^ovcqm c n^otf^o2^out n MMD ; ; 40306 H^opv^oqu d^og^ou^ol^oo qn^o P^ogq^o049: ô 49; 030

4846 4880 *o* C| kunq^orc^oqx^oq^ouk l^op^ov^o|o²p{ DEVO 5390 30 ô C| luo²vn kunq^ock *vc*ph^oq^ol^oco DEVO 58: 0 5; ; 0 6640 7570 30 C| ^o3^op^om^o u^ol^ocm^op^o f^ou^o ic^ol^ocf^ou^oik p²r/ kunq^ot^on P^ogq^o0 4: 26 4: 40 X0 ^o30 o²i DEVO 5530 7986 7: 40 30 I^org^opv^ou ekmg c p²ro x^ogr^out n o²i 3; 3: /d»n DEVO 5556 5680 30 ô C p²r^on^o4^o{x^ov^otc^om h^org^ol^oku^ol^o v^ou^ot^on P^ogq^o0 746 750 30 ô C p{q^ore^oqu^o v^on^oqu p²r^okunq^onc *vc*tx^o2^on DEVO 5856 5870 5886 5930 MMD 3746 37; 0 3826 3870 3886 3920 30 C u^ol^o3^og^od^ogp go r^ong^ow j^ok^oc/ *vc*nu^o n^ocf^ox^ap{< C *vc*pn^o4^ogr^ol^ogw^ou^oi 2^ou p²r^okunq^ock u^ol^ogtx^og^o G^ow^or^oa^odcp 2^ou c| Gi {gu^oh^ov f^onc^oo q^ondcp. Dr^og^ou^o. 3; 4; 0 ô C| 3; 62./k *v*4^ox^o2^op{t n 30 J »o cp. Oci {ct uqtu^o o ci {ct j^ok^ocv^ou 3: 46 3: ; 030

4896 48: 00 C p^oci { *v*4^ov^opgk ki c|u^oi *vc*p^ou^oi^ot^on Xk^oi^ox0 4: ; 0 30 G^og^o p^onk^oh^o o²i u^oq^om^ol^oqt go r^ong^og^ok^o ô P²r^okunq^onc 2^ou C^ori^o4^o/c^onek^o P^ogq^o0 4890 306 W^ocr^ol^ou U^o2^oej^ogp{k K^ow^oa^op r^o2^on^oa^ol^otc Xk^oi^ox0 660 30 ô C| q^otu^ol^oa^oi^ot^ou^og^om c^op{cl^opc^om g^or^oq^onf^ouc WC03830306 Mrgdgn^odgti C^ori^o4^o/n^or^og MMD3: 2030X0^o30o²i WC0

39; ð 3: 20 30 ð C| cñf4fk nñtf²uv nko gt^{flv} t²u|ngvu²i i gn kuo gtvgk Mc^ap M^tqñ. C o ci {ct Cñf4f0 I c|fcu²i rqrkñek wcpw^ap|. Dr guv 3; 490 O ci {ct Vwf0 Cñef²o k0 C| kf²|gw cfcvqñc p²|xg x0 340 3926 3940 30 G|gnv c| cfc/ vñev jcul p^anc hgn Okñvc| Kuv^ap c| Cñf4f t n ²flv gi |km lgrgpv u ekññdgp0 èC f²ñk^ad o 3/4 Æi . Oci {ctu^a i . 3; 4: 0lcp0440²ulcp04; 0-

48; ð 4950 r0 C| Cñf4f ²dtgf²ug MMD 3: 40 30 ð C| Cñf4f wci²f k^{1a}pcm qñek WC0 3970 30 X0 340 o²i Pggp0 5: 0 30 ð C n34 rqpqu^{flv} u j^au^ap{ctk^an WC0 3920 30 ð C o xgn f²uk ²ngvpgfxgm o gi kpf w^{fl}uc Xkñix0 650 30 ð C| cñf4f k x^atquqm o lpv mñw^at^añku xkñi²flv^aqtp{qm LJ | 0 826 830 30 ð C 4930 30 qñcuj ev^a kf²|gv Okñvc| Kuv^ap go ñflgw ekññd n xcñ0 ð C| Cñf4f k Dk qw^{fl}i WC0 39; ð 3: 50 30 Dgij rnp p{|kcvñq|cvc WC0 80 30 ð C U|qppñk d²nñuecdck uñ0 Æñ ugn t nñ4 34w cfcvqm c jgn{k nrxm dgu^ao qñkd^an xcññ0 ð C| Cñf4f/mwcv^a Dk qw^{fl}i t^an WC0 3926 3930 30 ð C U|gi gfk r tqhguu|qtqm o wññ^{1a}t^an MMD 348080 X0 340 o²i WC0 3836 3880 30 Vqx^addk hqpvquedd p{|kcvñq|cvc c| Cñf4f nñtf²ut n DEV0 5746 5770 Pggp0 586 5; 0 LJ | 0 9; ð : 80 Xkñix0 5; ð 660 ð C U|qppñk Vku|c/nqphgtgpek WC0 3896 3930 30 X0 340 o²i X^atqumwñt^ac . 3; 5: 0 u|gr^a0 520 ð C Fwpc0 Vku|c/eucvqtpe c xkñi|hqti cñqo v^axr^adc^a nñflxc w0 qw 3946 399080 ð C Fwpc0 Vku|c/eucvqtpe pgo |gk|lgrgpv u²i²t n<J cl>^aukJ fl^ar^ar . 3; 540lcp0530

496 ð 4970 r0 C| jkcvñq|qw n34 i { rñuk dgu² f DEV0 736 870 30 ð C t>o ck gn cf^au w0 qw 4556 4740 30 ð C o ci {ct Cñtqr qñku DEV0 4: 40 30 ð C nñ|kcvqu x^atqtugpfl²ukcp{ci nku²t²v²Mrgdgnudgti hñj cul p^anc WC03846 382030

498 ð 49: 0 r0 Mrgdgnudgti o x²u|gv qñkññ^{1a}t^an 34u|ghqj rñ^a ekmgv kv Rgtqxlej Grgm Pcrngrv 3; 5; 0 ppx0 330 C n34gñgñ|ndgp glv c ekmgv ku hñj cul p^anco 0 X0 340 o²i Mgt²v²l . Go rñ 4: 26 4: 40 30 vqx^add^a J^ao cp. Oci {ct uqtu²o ci {ct jkcv^au 4956 4990 30 ð C o x²u|gv v^ao qi cv^au^apcm n34gñgñ|gw u²i²t n MMD 3350 30 ð C o ci {ct o x²u|gv pgo uaj^alc w0 qw 46; 0 30 ð F Ægtt n Pggp0 4426 4450 30 ð C|^amco . o lpv c tgpckuucpeg/hglgf gn gm wwf c J^ao cp. Go rñ 3290 30 X0 340 o²i Vqpgñk Go rñ 3960 30- Texcu| N^au|n . J w^ap{cfk O^av^au . c Eqtxlp/vgu^argv ncf x^ap{c 530 30 ð I rñwñf gt r Æur 34m x²rgo²p{g Go rñ 32; 0 30 ð C jkcvñq|qw 2^rflv dñ qw^{fl}i k w< Vqpgñk U^apftq0 X0 . 0 Go rñ k0 j0 C| gñgp²vgu hññi^auv nñrxkugñ Okñvc|. C| kuo gtvgvp Oci {ctqtu²i . I gpkñw/nkf^au . èC U|gi gfk F^ao v²t o 3/4 34w 3636 3680 30 ð Kv go ñflgo o gi . j qi { Mrgdgnudgti o²i hcvrcdd nqt^adcp vgtxglgw gi { ekmgv èi r^{flv} nqtqm mñwñl cì e0 Gppgm t3kñf x^a|ncv lgi {glv gvk n34 34w t^apno ctfv0 Wì {cpeucm lgi {lgvk n34 34w uqm xkñi j fl^a 2^rfl^au|gk go ñm i qpf qu rñ^{fl}a²uc vññij cv0 f nc/ ñdcp pci {qp dgi cv^acp hqi rñmñ|qw c| kqf cñqo o gñgw c |pgg. fg o²i ku c rñi cñr qucddcp c| 2^rfl^au|gv v34²pgv²xgr0 lgi {lgvkd n c| ku nñf gt Æñ j qi { xcñ/ p^ai qu pqu vñi k²v²t|gw c tgpckuucpeg/nqt k^ap^a0 C| gi {gu hqpvquedd tgpckuucpeg/ flpcul^añt^an gi {dgp c|v ku hññi {k nñngv hqi rñmñ|cvem c o x²u|gm n34 Æ0 M^av^ap j cvem cu p²xuqt v^a nñflv 34u|g èVkr kmu tgpckuucpeg/go dgtgm o gi lgrñ4²u/ ugr0 Gm^av^ap²xg euqr qtqv^{fl}lc c Htgp²t²g²u c Ogf lek/eur ftc xqpcvñq|» cfcvqñev0 M^av^ap hññi {k c o ci {ct tgpckuucpeg²u c o qj^aeuk nqtul cm xgl²t/ go dgtgk0 Gi { kf dgp o guu|go gp vgtxgk xqñcm c o x²u|gw34²pgk wpw^l o^ap{qm hññpfl²u²t²g xqpcvñq|»ñi0 G wcpw^ap{qm gi {km i^aer qp^au^apcm c d²euk v34²u k^ap^agv kmv rñi c| gl|gn nñr euqr^adcp vgtxglgw o x²u|gw34²pgk k^ap^agv|gvgv u^apvc. co gñ| xku|qpv dgrñer euqr^af qw xqpc c Fgwuej/Wpi ctkuej gu Detqenhtuej wpi ukpñksw/dc0X03400 ci {ct{. Vwf qo^ap{r qñkñe 685030

4:26 4:40 r0 C o gi x^anq|qw xkf i u| gngo Xkf i x0 5450 30 ô C wfqo^ap{/
 2 u o x²u|gv rqrknc vknrc. Fgdtegepk U|go rē 3; 540 lA⁰ksu *ëC o ge²p^au⁰ I qp/
 fqrvcx|gtgf gwgi c Hgn Rmcv⁰uk Gi {guArgv n⁰4 i { r²u²p 3; 540 o^alwu 360²p
 c fgdtegepk gi {gvgo n⁰4 r qpvk 2 r Argv²pgm o gi p{k⁰uc cmcm⁰d⁰n o qpf⁰qw
 dgu²f²dgp hlgvgw n⁰ *M|kcv⁰ ô C j kcvnq|qw 2 r⁰u⁰/o wprv⁰tu H d⁰k p
 I^aur^at0 NO | r⁰qv krct. 2 r⁰qv o x²u|gv 3; 540 pqx0 30 ô X0 3⁰ o²i Dgvj rēp Octi kv
 xkuu|cgo r⁰ng|²u²v⁰ ë-i { u|gtgw u|gngo k u|A⁰v⁰gk. o kv cp{c c nkuf⁰gf²v0
 Oquv ku go r⁰nu|go 3⁰4⁰v n uwi^at|» cte^atc. co knqt c u|gi gfk gi {gvgo m⁰4⁰/
 d⁰3⁰ I^av⁰ntqto c i kr u|hi w^akv gi {km o kpv|vgtv^aeuk per qp g⁰q|v c o ci^axcn
 j qi { xceutc w⁰p o kpf gpnk j q|^au|»nj cuuq c f³p²u|gi 0 O gi j cw xqnc c j qi {
 o clf pgo dge²|xg tcmc ngv gi {o^auw⁰p c| u|vrtc. d⁰4 u|n⁰p. dqrf qi cp.
 o kv c i {go gm c n⁰4^aeuq|k cl^apf²n⁰ne⁰ Hecv⁰u wu r⁰dqi qw dgp⁰g. j c
 A⁰{n⁰4²t n xqrv u|»i0 *Rguk J knrc. 3; 5; 0 o^alwu ; 0⁰ ô C Mrgdgnudgti/n⁰k⁰n⁰u
 nev⁰n⁰i wuc< I t>h Mrgdgnudgti Mwp» go r⁰nk⁰n⁰u⁰ v⁰ti {o wcv>lc. 3; 550
 hgdw⁰tô o^ateku0 ô C o x²u|k u|go rqpvm hqvqu^aic MMD 366 3; 0 30 X0 3⁰
 o²i w0 qw 536 540 30 ô C xkui t^afk tqo qm⁰n w0 qw 4660 30 ô C p²r kumqk
 2 r⁰ng|²ugm jcv⁰uc c hcnv ⁰ r⁰u²tg MMD 376 380 30 ô C u|gi gfk 2 r⁰ng|²ugm n
 w0qw33; ô 34206 C Vgo r⁰qo /v⁰t hrcxv⁰u^at>nMgt⁰v u|. Go r04: 0 30

4:50 r0 Eu>m 2 u Xcu|ct c M⁰r| o x0 H kumq⁰p DEVO 6230 Gi {²dn⁰pv
 gddgp c| A⁰{dgp Mku Ogp|j²tv gn u|3⁰ o^at 3; 440 lA⁰ 3; /²p kvvtrgn⁰n0 ô
 C o x²u|gv e²r⁰icte hqt f⁰ij cw n⁰4⁰u²i gmt n MMD 476 520 3260 33500 ô C v⁰4/
 v⁰pgk hgu²u|gvt n w0 qw 3; 80 30 Igi { |gvk n⁰4 3⁰v 3⁰u|g⁰n⁰qvc c rēi hqvqucdd
 cf⁰qvne⁰ U²ngn| Dgtvcrp. Vj cp O>t 2 u Nqv M⁰tqn| o n⁰4²u²tg xqpcv⁰u|>/
 rci 0 ô C d²euk 2 u fgdtegepk h⁰gum>n>n MMD 3526 35300 ô C| Qtu^ai qu N⁰gx²n⁰t
 h⁰gum>k>nw0qw4686 469030

4:60 r0 C m⁰4⁰4⁰fk n⁰4⁰gv²i gm u^ao^atc xck> tgp⁰u|gtgu x^au⁰tr⁰uqm MMD
 33200 ô C fgdtegepk m⁰pknc vgr u|qdtck MMD 46: 0 r0 ô \cr I {3⁰4 i { u|gi gfk
 f⁰qo dqto xg MMD 3420 30 ô C u|gi gfk ëRcpj gqo MMD 4690 30 ô I r⁰w⁰h⁰gt
 r A⁰r⁰3⁰mp|krcv⁰u|cvc Go r032; 030

4:76 4:90 r0 C fgdtegepk nevqck Rcpj gqo v⁰tx²t n x0 3⁰ X^atqumw>tc.
 3; 5; 0 u|gr⁰ 520 ô C| → Oci {ct M⁰r⁰v⁰t MMD 32; ô 33200 ô C o ci {ct o x²/
 u|gn m⁰4⁰4⁰fk u|gtgr⁰ugk DEVO 6230 7730 30 J gte|gi Hgtgpe u|gtkv *Go r0 ; : 0 30-
 Mrgdgnudgti ëpgo ngxugdd. o kv 48 m⁰4⁰4⁰fk o ci {ct nk⁰n⁰u⁰q. Uqenj qm w⁰n
 T>o^aki 2 u Xctu>»n Detgnp⁰ki. tci {qi vcv n⁰r| o x²u|g⁰pm l⁰p{gu n⁰r⁰gv/
 u²i gk⁰ X0 3⁰ o²i MMD 4; 0 30 ô C| Qrgtj^a d²tdgcf^au^at>n Pggp0 3830 30 ô
 C \gpgo x²u|gk H kumq⁰t>n DEVO 4; 26 4; 30 73: 0 30 ô C p²r k 2 u c pgo|gk
 3⁰u|gnereuq⁰uc c o x²u|gdgp MMD 3: 66 3; 80 30 ô Mrgdgnudgti gi {km |gp⁰k
 v⁰ti {A⁰ vpw^ap|c ëC hrcpek cne²o⁰lc gt²p{f⁰ci e0 c Dwfcr gvk J knrc 3; 540
 lcp0 320 u|0dep lgnpv o gi 0 ô Xlpegpv f⁰pf{/t n⁰ ëGi { xkn⁰utgi i gk J wdc {
 Lgp p²n Xlpegpv f⁰pf{/xgn0 \gp⁰k go r⁰nglo d n⁰0 Dwfcr gvk J knrc. 3; 530
 fge0 470 ô Vgtxgm c dwfcr gvk gi {gvgo k vgo r⁰qo c n n⁰er euq⁰vdc DEVO
 4; 500 ô C u|gi gfk o kv 2 u c |gp⁰k r^an^a|cvqm Xkf i x0 5426 : 4600 ô C u|gi gfk
 qti qp^at>n x. 3⁰ Mrgdgnudgti ekm⁰v c Pgo|gk —u^ai 3; 530 o^ate0 : 0 kv 0dep<
 ëMu v⁰pgvmpci { vpw⁰i c k⁰ 0

4: ; ô 4; 20 r0 C Pgo|gk U⁰pj^a|t>n Pggp0 3: 36 3; 60 30 ô X0 3⁰ o²i w0 qw
 3; 86 3; ; 0 30 ô C xkf²nk u|⁰u²u|gv hqvqucdd r⁰tdr⁰o^ak>n MMD 476 4; 0 30 ô
 C u|gi gfk gn cf^auqm v⁰tx²t n Pgo|gk —u^ai. 3; 530 o^ate0 : 0 ô C u|gi gfk I^av⁰ngm
 vx^addkuqt^at>nOci {ct Pgo|gv3; 640cw 0520

4; 36 4; 40 *n* Xkui cgo rñngl²ugm c fl²n²xgmt< Fedcuk J cñi ul Nclqu. Dwf cr guk J ¶ncr 3; 570 lcp0 4; 0- DO U|cd» Kwx^ap. U²nguhj²tx^atk Hkku —l^ai 3; 540 qm0 370 ô Mrgdgnudgti Hk knck d^avqtu^ai²t>n²tfngnu cfvqnev n²4³n Rgvtk Go rñ 3660 30 ô C urqtvn²4³ndgp xcn^a p²ru|gt u²i²t n Urqtvj ¶ncr. 3; 4; 0 ul gr v0430

4; 56 4; 80 *n* C r²xgpgv²Ä{t n Xkfi x0 53:0 30 ô C fgo qmtekmw vgu/ p²xgr²u DEVO 72: 00 ô wcr²u U²ej gp{k r²rf^al^atc w0 qw 7286 72900 ô Mrgdgn/ dgti p{krcvuj|cvc c urqt v²fgn²dgp nihglvgw vx²ngp{u²i²t n Pgp0 4: 70 30 ô C| Qtu^ai qu Vgvp²xgr²uk Cncr n²tf²ug DEVO 7286 7370 ô C urqt v²trc/ i cpf^at>n ul »n² t²uj|g| x0 30 Xkfi x0 5660 MMD 630 30 ô Mrgdgnudgti urqt v²qrk² n²l^at>n 3²ul ghqi rncp Rgvtk 3670 36:0 30 ô C| ²n rgn²t hqpvqu^aic MMD X0 30 5; ô 630 30 X0 30 ô o²i Xkfi x0 56400 ô C n²4²u²i xgv²uk Ä e²p t n Pgp0 4520 MMD4; 30306 C eugn²ul vt nP gp0 k0j 0 vx^add^a MMD64030

4; 96 4; ; 0 *n* C| ^ancr²pqu pgo|gk v²gvp²xgr²ut n Xkfi x0 53:0 30 ô C Dcrv²ppcn ner euq²vqu urqt v²vtxgmt n Pgp0 4536 4540 WC0 42; ô 4360 30 X0 30 o²i Rgvtk Go rñ 36: 00 ô C ul 3²kvu²ik urqt v²a| ²u c h²fgw wu|qfc Xkfi x0 5656 56600 ô C Pgo|gk Ucf²kp n²tf²ug Pgp0 4546 4550 30 ô U|gtgr²u Äpm c| qro r²ku qm²q WC0 4446 4490 30 ô C| qro r²ck v²tucuf²i²t>n Rgvtk Go rñ 36; 0 30 ô C| qro r²ck i| | mgn h²ppvctvq ner euq²vqmt>n C| Guv 3; 5; 0 lÄ0 30 ô C dgt²rk qro r²ku| gtgf o²p{gk Mrgdgnudgti gv kic|qn²n0 X0 30 Mku L|ughelkm²v. Go rñ 5426 543030

5230 *n* ÖORtv ¶qm ekmgvÄ Pgp0 3336 3360 30 ô C o²l²ku|vtppm ul Än² u²i g xcp o²gi²t²v²utg Pgp0426 43030

5246 5260 *n* Pgo gr²i c hgnÄt n l²kv v²o²qic²v²u DEVO 89700 ô C 5240 30 c| gnu kf²|gv< Pgp0 3350 30- c o^au²fk m kf²|gv w0 qw 3; 30 30 ô C v²4²v²pgk hgrn u²i w²fcv MMD ZK0 30 ô C o²gu²ux^at> j²cp² w²v DEVO 85400 ô O wuu/ rpk o²lv Äu²i ¶» Pgp0 3; 50 30 ô Mrgdgnudgti c ucl²v rwdreku|v²ck vx²ngp{/ u²i²t n Xkfi x0 5260 30 X0 30 o²i Pci{ L|ugh ekmf²v it>h Mrgdgnudgti Mxp» o²lv rwdreku|v O l²gtxc M²p{x²v²t ZZXXK0 Dwf cr guv 3; 520 vx^add^a< Gtgn|. Go rñ 479030

5276 5280 *n* Xkui cx^ai{>f^au c mwnÄtc v²ul v²dd r²i n²4²dg DEVO 82: 00 ô Vctw|n²uf^au c r^atv²qrkkn²wn MMD 3380 30 ô C rwdreku|v²ck. o²lv ägt^avx²gn². MMD :66 :700 ô C mwnÄtr²qrk²ne pgo r²gv gi|gv²gp go dgt t²4²gu|o²lg Pgp0 3: 50 30 ô C| cm²v²uj|g| pgo|gk n²4²gn²gu²u ul Än²i gu MMD Zr0 30 ô Mrgdgn/ dgti c| 3²ul gi{ l²v² ekmgv²vtw²c|» n²4²v²gm dgu gi{u²i²t n LJ|0 3700 ô / P{krcvuj|cvc rwdreku|v²ck o²n²4²t²ppm gnu ul cnu²l^at>n MMD k0 j0 ô Mrgdgn/ dgti ul >dgrk r²trci cpf^al^at>n X^at{ Cndgtv. Go rñ 3; ô 420 30 ô C mwnÄtr²4²p{ i qpf²qr²v p²ru|gt u²¶v r²trci cpfc pci{ gtgf o²p{²v cnetxc/cnetvcpw kic|qic Okv²{ Kwx^appcm gi|km ekmg< äV²n c Vxcu|dci *Oci{ctuf^ai. 3; 490^art0 4600 C| gi|km o²ci{ct ktgf²gv gi|guÄgv c n²4²r²ku²n²m h²nu ddqu v²n²qu p²kv²ngk ul^ao^atc r^an^a|cv² j²kf²gv< j²ci{cp w²lwm xku|cu|gt|pk Pci{o²ci{ctqtul^aiqvÄ C| gtgf o²p{. Okv²{ ulgt²kv uk^at xqm0 äEuwc o²gi/ h²qv² ctep{ n²4²r²wcu ktgf²gv gv²m²fk m kv o²cl²pgo l²ij²kv²cv²u ul²hu/ dcp. c r²ck²o²wu² c mwnÄtr²4²p{ ul gmgo²dgp00 o²lv²c euwc Mrgdgnudgti Äpg c p{qrcf²km qu|v²n²qm r²fu²ctk²dcp0 U²jc k²gp d²äeu. k²gp n²tc²tgw. k²gp t²äku. k²gp i w²g²l²ppv klÄr²i q²0 U o²i j²q|^ah|k< äG|gm pgo \tlp{kpgm fg Mrgdgnudgti p²m²ij|p²gm0

5296 52; 0 *n* MÄtr²4²fk gn cf^auqm DEVO XK0 30 ô C pgo|gk i qpf²qv²

«*hvi*» gtlg MMD 32; 0 30 ð Mgdgndgti tgpfulgt²t ñ Mqtplu. Go ñ 6E0 30 ð C ñcvul t»ñ jcv²uc c|²rgvt u pgo|vgmtg MMD 550 30 ð C o ci {ct pcelq/pcrk²o wu tgpñfñk gtlg LJ | 0 396 3: 0 30 ð C hucukc j lo pwul d>n xgw kf²|gv Pgp0 3: : 0 30 ð / C|²meo² u c pgo|gk i qpfqrcv MMD 786 7: 0 30 ð C ñqtqcd² u hcvrcidd pgo|gf²m MMD 9: 0 30 ð T²i k²t²u< À e²mkv |²u Pgp0 3580 30 ð C Oqj²eu²tv hrgn u pgo|gf²m pci {qddcv x²vg|gw. o lpv c vlcqpk MMD 4640306 C j c|c h²f P xgnxc» grigi ||²ut nx0²0²i 367030

5326 5340 ñ 0 C o ci {ct go dgtcp{ci t>n Pgp0 3646 365080 ð C U²ejgp{k xgn xc» ð²u gnercuñ²i Xkñ i x0 530 ñ 0 ð C pqpcelqpcrk²o wu ñ p{gi g Pgp0 60 30 X0 ð² Mqtplu vcpw²a p²a v0 Pgo|gk o gi Æj qf²a u. Dr guv. 3; 4; 0 Mgdgn/ dgti ul gtlpv Mqtplu èxc»ñ²i i cn tgpfulgtg hqi ñrcic c|v. co kv c pqpcelqpcrk²/ o wu i qpfqrcv²t>n ñ²ñ²pd² cmeo cmt² o gi ñ²co² u dgu²f gndgp gr qp/ vco i0 ð LJ | 0 580 30² ð C lqi² u ñ²grgu²i DEVO 79: 0 30 ð C| qmcvñj q| kp²/ | gw ñ²grx²n< C o 0 ñt0 xcñ²u² u ñ²qmcv²u Æi {k o lplu| vt ñ²grxgng Oci {ct/ qtu² i ð²u g qmcv²kj q| 0 ð 3B; 4: 0 gp0 ul 0 c0 ð C| gurtkv fg ñ²vg j k p c MMD : : 0 30 ð Gi qp qf²u² u ñ²xcgn LJ | 0 3550 30 ð Pci {xqpcñ² i c| gi² u dgp. cñ²q² i u c t² u rvgndgp. v0 qw 3586 359080 ð C euq² a u j² tqo ul ð² MMD ; 9080 ð R² ñ² a mc vgxul gt vgpñ i tg LJ | 0 3546 392030X0² 33: ð 33; 030

5346 5360 ñ 0 C lqi ñkgtlgul² v²u rtdr²o² lc MMD 3; 3086 C p²rk gt m hñ/ ul cdcf² uc² u c pgo|gk tgi pgt² e²lc MMD 756 76080 ð Rgv lk² u Ctcp{ r² ñ² lc MMD 3; 76 3; 8080 X0 ð² i Mqtplu ekñ² v. Rgvk J ñ²rr 3; 5; 0 o² l wu 806 Mquwuj r² ñ² lc Pgp03540306 C p²ro xgr² u i c| fcu² i kxqpcvñ² i uck Pgp0355030

5376 53: 0 ñ 0 C hucuk² o wu. o lpv pgo|gpxgn tgpfulgt Pgp0 3626 363080 C hucuk² o wu² u pqpcelqpcrk² o wu ñ²rcuqrcv² o gi xkñ i ñ²lc c| KK rqrqrq f)Kerlc 3; 4: 0 ul gr² 0 30 ul² o² dcp o gi lgnpv ekñ² Pgpqcl kpcrkio q0 K² ñ² c g Rcucluo q pgn ñdtq fk wp o lplvtq wpijgtgug ð²cn² K² p² e vñ² d>ñ0 ð C rctreo gpk tgpfulgt n Pgp0 4470 30 ð O wuqñk² t n Pgp0 4580 30 ð Oci {ctqtul² i j² ñ²lc c hucuk² o wu k² pv Pgp0 4386 43; 0 30 ð C hucuk² o wu cmt² uck Pgp0 3470 30 ð C o vñ² j lo pwul² pcm ð²KK ecvq fgn ñ²xqtq+² tvgm gi² ug Pgp0 38: ð 3940 3996 3: 20 3: 76 3: : 0 30 C| qrculqm² t² fgm f² u² v Mgdgndgti mñ² ñ² riqskñ² i²/ pcm t² u rvgk k² pv o wvlc D0 Nco dgtvpi jk h² Æ gvg< Nc rqrklec ueqñ² vlc fgm pvxc Wpijgtlc g ñ²qr gtc fgn O lplvtq Mgdgndgti. Uqpf tkq. 3; 490 ð C| gi {²pk ul cdcf² i² u c| lpfk² vñ² o wu ñ²ñ² qm ñ²4² ul qt² uc Pgp0 4260 30 ð Dgv rrp ð²u gñ² i ñ² uc c mgdgnudgti k pqpcelqpcrk² o wu ñ² p{gi² t n Pgp056 6030

53; ð 5420 ñ 0 T² a ñ²uk Igp ekñ²g< Rgvk J ñ²rr 3; 4: 0 l² Æ 0 30 X0 ð² O kv² { K² w² p x² rgo² p² v< Oci {ctñ² i. 3; 520 lcpw² t 70 ð² k| k Rlp² t Igp . Oci {ct Kqf cmo v² Æ² pgv X² K030 449030

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KX0 HGLG\ GV(3426 38;

Vwfqo^ap{rqrkkn²u² p²r qmcv²u 3426 3430 ô Mrgdgndgti ul gtpv c|^a r²q|cvqu w²fqo^ap{r^atqv²u² c n²i lqdd ic|fcu²ik dghgm²v²u 3436 3440 ô C w²fqo^ap{qu mwc»o v²nc lgrpv u²i g c pgo|gk²ngvdp 3446 3450 ô C nku²m²o qm ku euk^an² j cvpm gtg²o²p{qu w²fqo^ap{rqrkkn²u² 3460 ô C I {lv²o²p{ gi { g²vo o gi/ cmq²v²ug 3476 3490 ô C| cwq²»o kc i qpf qrcv t²x²p{g²Ä²gi c w²fqo^ap{qu ul gtxg|gvndgp 34:0 ô C| Qtu^ai qu M²Äp{ xht²cm k²u Dldnqi^aÄ²Äk M²Ä²r qpv 34;6 C Oci {ct Vwfqo^ap{qu Cn²f²o kc o gi ugi Ä²ug 3:26 3:30 ô C Vgt/ o²u² gw²fqo^ap{k M²Äpi tgu|wu o w²n²Ä²rck 3546 3550 ô C| Qtu^ai qu Vgt²/ ul gw²fqo^ap{k Vcp^aeu²ngt²Ä²uc 3556 3560 ô C U²ej gp{k Kuv^ap w²fq/ o^ap{qu v²tuc²u² o gi cr²r Ä²uc 3570 ô C ux^adj gi {k euk^aÄi xk^au^an² 3586 3590 ô C Äj cp{k²ngwcpk kpv²gv 3596 35;0 ô C o ci {ct ÄF²cj ngo i v²txg= cn²f^an²qm j cte c ul²nguh x^atqucn 3626 3660 ô C| ð²Äul v²Äp²/Äi { tgp²gl²ug< v²txgm c

p²rk vj gw²igm nk^acu|v²utc 367⁶ 369 \hat{o} C wfqo^ap{qu $\frac{3}{4}$ |v²pf²lcm hq/ vqu²ic c pgo|gk²rgvdp 36:/36; \hat{o} C \acute{e} p{wi cvqu²i i c o ci {ct o \acute{A} ndcp² u x^atjcw² crcmw²uc c l $\frac{3}{4}$ kgp 36; \hat{o} 3720 \hat{o} C t²ik qu|v^am²u c hkuu nku/gpvpgv r tqr ci cpfc o gi hrgn gngpu²(q|^au²pcm n $\frac{3}{4}$ grgl gw²ig 373 \hat{o} C Mrgdgn/ dgti v n n $\frac{2}{4}$ r²lgw mww^arku $\frac{3}{4}$ ul gn $\frac{3}{4}$ gv²ugm uqnrjfc n \acute{A} r²ic *374= \hat{o} M \acute{A} n $\frac{2}{4}$ 4f k o ci {ct kp²|gv²m²u gi {²d o ci {ct tu|go gm 375⁶ n $\frac{2}{4}$:0 \hat{o} C| qtu|^aiqu $\frac{3}{4}$ |v²pf/ f²vcp^aeu 37;/3820 \hat{o} C dgr $\frac{2}{4}$ 4f k mwc $\frac{3}{4}$ |v²pf²lcn⁰ 3820 \hat{o} Mww \acute{A} r qrk²lnc² u n \acute{A} r qrk²lnc vlcppk nqtu|cndcp *382⁶ 383 \hat{o} Mrgdgn dgti dgu²f gk c m \acute{A} n $\frac{2}{4}$ pd^{3/4} nqpi tgu|uqnrj 383⁶ 3840 M \acute{A} n $\frac{2}{4}$ 4f k n²v²uqm² u gn cf^auqm 384⁶ 3850 \hat{o} Mcreuqr²vqm c|²u|cnk tqnrj p²rgmgn 37: \hat{o} 3860 \hat{o} C m \acute{A} n $\frac{2}{4}$ 4f k ucl $\frac{3}{4}$ c o ci {ct wfqto^ap{r qrk²n $\frac{2}{4}$ t $\frac{2}{4}$ n 387 \hat{o} Mrgdgn dgti gu c p²ru| $\frac{3}{4}$ kgv²ik Eqqr²tcvkqp rpvngewng 387 \hat{o} C Vwfqo^ap{qu V^atuwr²vqm² u k $\frac{3}{4}$ v²|o²p{gm Qtu|^aiqu U $\frac{3}{4}$ kgv²ig 388⁶ 3890 \hat{o} C Uwr²tcvpxgtukcu vgtxg 389⁶ 38;0 \hat{o} C Eqtxlp/tgpf cr: r²uc 38;0

X0 HGLG\ GV(.....)392⁶ 437

C euqnc qtu|^aipcm o gi ngnw qrfcpc c o gpgm \acute{A} n r q|uq{²k² u nq|ux^atk u c o²i nk pgo²r²lgw⁰ fgdtegepk gi {gvo n $\frac{2}{4}$ tf²u²v 392⁶ 3930 \hat{o} Mrgdgn dgti c o gpgm \acute{A} n gi {gvo gm hgvct²uc o gngw hqi r²v^a n^an²uv 393⁶ 3940 \hat{o} Jcte c \acute{e} ulgpv vcn $\frac{2}{4}$ u²i i n $\frac{2}{4}$ xci lck gngp 3940 \hat{o} C n $\frac{3}{4}$ x²ng²p{^av²cp i q²u $\frac{2}{4}$ c 395⁶ 3960 \hat{o} C| gi {gvo gm o kv mwc $\frac{3}{4}$ |v²|o²p{gm pci {hqvqu²i \acute{A} u|gtg/ rgv v $\frac{2}{4}$ ngpm dg c pgo|gk²rgvdp 397⁶ 3980 \hat{o} C r²euk gi {gvo grj gn|²ug² u vx^addk uqtu 399⁶ 39;0 \hat{o} C u|gi gfk gi {gvo n $\frac{2}{4}$ r²ug² 3:2⁶ 3:30 \hat{o} Vgtxgm 3;3;/d>n c fgdtegepk gi {gvo l $\frac{3}{4}$ gpf u|gtg²g xqpcv²u² n $\frac{2}{4}$ i 3:3⁶ 3:50 \hat{o} C fgdtegepk gi {gvo k²r²lgw²ugm hq²v²uc 3:6⁶ 3:70 \hat{o} C d²fcrguk w²q/ o^ap{gi {gvo jgn|gvg 3:8⁶ 3:90 \hat{o} C| gi {gvo k jcn²v²m² r²v^a o²c² u c|²v²gm k²ik o v²ncp²m \acute{A} n $\frac{2}{4}$ u²i 3:9⁶ 3:20 \hat{o} \acute{e} C fl²nc c pgo dgr²r lgi {i 3:30 \hat{o} C ic|fcu²ik² u u|qel²ku hgn f²u pgo w²q²v r²u²v v²tcvpc c mww^ar²lg gn tg $\frac{2}{4}$ u²gn 3;4⁶ 3:70 \hat{o} C pwo gtu en²v²u n $\frac{2}{4}$ tf²ug 3;7⁶ 3:90 \hat{o} C f $\frac{2}{4}$ k m² u|qel²ku kp²|o²p{gm n $\frac{2}{4}$ r²ug² 3;9⁶ 3;;0 \hat{o} C| gi {gvo k n $\frac{2}{4}$ tf²u² u² c x^atq/ r qrk²nc n²reuc² 4220 \hat{o} Mjt^addk x^atqur qrk²nc vpw^ap{qm 422⁶ 4260 \hat{o} Dwf cr guv gi²u²i vgrj hgr²v|cu|v²u²pcm n $\frac{2}{4}$ tf²ug 426⁶ 4270 \hat{o} Mrgdgn dgti^a n $\frac{2}{4}$ v²nc i qu Dwf cr guv gngp²u²ig 427⁶ 4280 \hat{o} C fgegp²tc²ik^a e²ku^a u \acute{A} i gv²ug 429⁶ 42;0 \hat{o} C| gi {gvo gm o kv c| gi²u²i gu fgegp²tc²ik^a e²ku^a gul n $\frac{3}{4}$ gk 42; \hat{o} 4320 \hat{o} C mww \acute{A} tcvqo^ap{qm vgtxg 433⁶ 4340 \hat{o} C xlf²nk x^atquqm nww^arku \acute{A} i {glp²gm i qpf²u²c 4350 \hat{o} C| 3;52./k p²ru|^ao n $\frac{2}{4}$ r²upcm c x^atquqm hgn f²u²tg xqpcv²u² » cf²cvk4360 \hat{o} C j^atqo xlf²nk gi {gvo kx^atqu xku qp{nc i qu gn tg $\frac{2}{4}$ u²ug 436⁶ 4370

X1⁰ HGLG\ GV(.....)438⁶ 459

C n $\frac{3}{4}$ 2²r²kuqr² tgh²to lc 4380 \hat{o} C tgh²to gn|o²p{gk² m \acute{A} fgrgo c/ \acute{A} o p⁰ gi {/ u²i gu k²uqr² hgn hgn²wmep \gg i qpf²q²v²xcn u|go dgp 439⁶ 43:0 \hat{o} C| gi {u²i gu lqi qu²v²u n $\frac{2}{4}$ tf²ug 43:0 \hat{o} Mrgdgn dgti gn|gvu p{kr²v²u|cvk c jwo cpku v²mu vpw^ap{qm hqvqu²i^at $\frac{2}{4}$ n 43: \hat{o} 43;0 \hat{o} C v $\frac{2}{4}$ x²p{lcxcu²v dgp{ \acute{A} v²ucnqt o qpf²q² dgu²f< c| gn f $\frac{3}{4}$ m o v²pn²l^apcm grkuo gt²ug 43; \hat{o} 4430 \hat{o} C xlf²i/ j^adqt \acute{A} v n $\frac{3}{4}$ kgv n $\frac{3}{4}$ 2²r²kuqr² tgh²to qm uqtu 4430 \hat{o} Mrgdgn dgti x^atcvcp^a n²u²h²i r²v²uc c jwo cpku v²mu i lo p^a|k²o k i $\frac{3}{4}$ $\frac{3}{4}$ vcp²gt²xgn n²reuc²vcp 444⁶ 445. \hat{o} W²nci qu o \gg fqu²uqm c o^at n²cfq²v vcp²gt²xgn²< \acute{e} k v $\frac{2}{4}$ x²p{ vx^addk x²i tgj cl²v²u²i 446⁶ 4470 \hat{o} C| w²nci qu x^anq|v²uqm qn²k 447⁶ 4490 \hat{o} C n $\frac{3}{4}$ p{ n $\frac{3}{4}$ 2²r²kuqr² n $\frac{2}{4}$ tf²upgm v $\frac{2}{4}$ x²pp{gn xcn \gg tgp²gl²ug 449⁶ 44:0 \hat{o} C n $\frac{3}{4}$ 2²r/ kuqr² v^an $\frac{2}{4}$ r|²u \acute{A} l u|gtx|gvg 44:0 \hat{o} C r²q²n²tk k²uqr² tgh²tp lc 44; \hat{o} 4520 \hat{o} C r²q²n²tk k²uqr² pci{o²tx hgnk^ai|^auc c euqnc qtu|^aidcp 4530 \hat{o} C r²q²n²tk kuqr² v^an $\frac{2}{4}$ r|²u tgh²to lc 454⁶ 4560 \hat{o} C n $\frac{3}{4}$ 2²r hq^a \acute{A} ic|fcu²ik u|cnq²nc²v u \acute{A} l kuqr²lc<c hgn o gl ic|fcu²i k²uqr² o gi u|gtx|²ug 4:7⁶ 4:80

XK0 HGLG\ GV()4: :ô 495

C| 3:8:/k p²r^{kunq}rk v⁴x²p{v eum t²u|dgp jclvq^wm x²itg 45:ô 45;0 ô C u|^{po}ci{ct xk^fngm pci{hqm^À gj cp{ci qm²ic 4620 ô C p²r^{kunq}rk n²tf²uv Mrgdngdgti. c Lw^kp/gi{gu^Àgv xqnv ^Ài{xg|gv ki c|icwlc. o^at xcn²u/ ²u n⁴qmc^vu^Ài{k ^mco xkn²t nqt²dcp dgj cwcp vcpw^m p{q|vc 4626 4630 ô C xk^fij^adqt^Àv n⁴xgv rtqi tco o gn|gvu nk^fqn²q^auc 4636 4640 ô C rtq/itco oqv c d²ngn²4²u tgpfgm²ugk h²lfcm cucp o^a»fqu^fq^wm 4640 ô C p²r/^{kunq}rc »u c o ci cu o xgn²i u|^Àn²i u|gt jcto »pk²lc 4646 4650 ô Gnu n²r²ugm c n²i pgi gdd xku qp{qm n⁴4³w< c o gi n²x o gi v²r^a|qw p²r^{kunq}rk u|gtxg|gv n²ij^kp{qucdd rpvclcpem nk²qn²q^auc 4656 4660 ô C pci{p²r^{kunq}rk »r²v/rtqi tco o t²u|ngvu nk^fqi q^auc u c nk²xgrj g| u^Àn²i u|gv cp{ci k gm n⁴4³m dk/ vqu²u< c| 3;48< Xr10 v²o 4666 4670 ô C mwn²ic ²u c hqtcfcm k fgo ci »ik nk^atl^am gi{o^auv 4676 4680 ô C rqrk²nk² ²u c mwn²iku fgo qnt^aek u|^Àn²i/ u|gt ³u|gn²euqnr²ic 4686 4690 ô I qpfqun²q^auc c| c²n²ifk vcp{cxk²i n²À²p/ n²i gu u|^Àn²i n²vgk n 46:ô 46;0 ô Mrgdngdgti u|gt²pv c vcp{ctgpf u|gt v⁴v²pgk h²ln²u² u|gtgf o²p{g u gi{^Àvcn pci{lgrgpv u²i ^Àccdd jpqh²i n²u. vj²v c| kunqr²qrk²n²pcm cm²o c|nqf²pk n²m cfq^wi c|k|q| 4726 4730 ô C v⁴v²pgk gi{j^a|cm t²u|x²vrg c n⁴qmc^vu h²rcf²cvlcpem gn²v²u²dcp 4746 4750 ô Mxc/ tqf^auc u c u gi gfk gi{gvgo ^Ào p0 xk²i p²|gk vpu²ngk n⁴4^Àn 4766 4790 ô C n⁴u/ u²i gm dk vqu²u c| 7222 p²r^{kunq}rk èqdlgnwo² u²o^atc= c x²i u o²tn²i h²n² n²v²uc 4796 4820 ô C| ^Àl p²r^{kunq}rk vcpvtx 4830 ô C nk²gf²»x² j^an²|cv nk²i² u|²v²ug 4830 ô C ic|fcu²ik k^ap{^Àkuo²n kunq²m vq^xddh²l²gu²v²ug 4840 ô C| kunq²pn²À²rk p²ro xgr²u iqpfq^auc 4850 ô C p|qreql²v²n²qu p²r^{kunq}rc iqpfq²v²pcm p²ru|gt u²v²u²tg k^ap{w^m gt h²u²v²ugm 4856 4880 ô C| C²n²if/ n²tf²u u|gtxu ³u|gh²À²i²ug c p²r^qmc^vuk rtqd²o^amn²en 4890 ô Mrgdngdgti c| C²n²if/n²tf²u n²gv²u²dgp ku U²ejgp{k j u²i gu vcp²x^ap{c 4890 ô C| C²n²if o gi p³xgn²gf gw lgrgpv u²i g c euq²ne qtul^ai dcp 48:0 ô C Mrgdngdgti/l²r²g C²n²if/n²r 48:ô 48;0 ô C pci{ v⁴v²pgk ki c|u²i vcrpu²i l²x^av²vr²pgm n⁴4g/ r²l²gvu²i g 48:ô 4920 ô C Dgv²rgp/nqto^ap{ C²n²if/rtqi tco o lc 4930 ô C| Qtu^ai qu C²n²if k Dk²qu^ai 4936 4940 ô C| C²n²if nwc^m Dk²qu^ai 4940 ô C Fw²o c| eucvqtpe n²tf²ug Mrgdngdgti o gi xk²i i²v²u²dcp 49:0

XK0 HGLG\ GV()4966 4; 2

Mrgdngdgti o x²u|gv⁴v²pgk ²u gu|v²kn²ck vcpw^ap{ck 4966 4970 ô C x^atqu/ tgpfg²u²ik rtqd²o^am k^ap^vxcn^ampf²» 2²tf²gm f²ug 4970 ô C o x²u|gv pgo|gk jkx^vuc 4980 ô C o ci {ct o x²u|gv gm gi{km hqvqu h²rcf²vc c o ci {ct ki c|/ u²i pcm c o ci c ucl^aqu gu n⁴4gkxgn xcn² jk²fv²ug0 4980 ô Mrgdngdgti o x²u|gv r²tvq²ik uk g²xgk< c vnc²2²nqu²ite xcn² v⁴gnx²u ²u c o x²u|k r²tn²À²fgn gm h²if²ug gm²gf²u n⁴4gr²l²gvu²i g 4996 49;0 ô V^ao qi cvpk n²m o k²pf²gv vj²gvu²i gv fg pgo u|cdcf dgrgxcvnu|pk c o x²u|gv k^ap{qm jctecd² 49;ô 4:20 ô Hpvqucdd ²r²vng²ugk 4:30 ô C x^atqu ²u c hcn² ucl^aqu gu|v²kn²lc 4:36 4:40 ô C u|gi gfk Vgo r²no/v²t 4:40 ô C u|qdt^au cv ²u hgu²u|gv u|gtgrg Mrgdngdgti ²r²vng²ugkxgn n²er²euq²ndcp 4:56 4:60 ô C u|gi gfk Pgo|gk Go n²neuctpqm 4:60 ô C| I Oci {ct M²r²v²t 4:70 ô M²À²if k nk²n²v²uqm 4:70 ô Mrgdngdgti ²u c o ci {ct |gp²gnw²ic 4:80 ô \gp²klwcm cm ²u r²n²cf²lcm 4:86 4:90 ô C u|gi gfk qti qpc 4:96 4::0 ô U²v²pn²|rqrk²nc< c Pgo|gk U²v²pn² n²tf²ug 4::0 ô C xk²nk u|²v²u|gv o gi ugi²v²u²tg k^ap{w^m vgtxgm 4;20 ô C u|gi gfk u|cdcf v²tk l^av²n²m4;20

KZ0 HGLG\ GV()4; 36 4; ;

Mrgdngdgti c urqt^v t²x²p ku det^avqnev n²fx^ap^vu|gtgl²pk c o ci {ct ^Ài{pgm 4;30 ô C| gnu o ci {ct urqt^vo k²l²u|vt 4;36 4;40 ô Mrgdngdgti p²r²u|gt u²i g c urqt^v v²o gi gm n⁴4²dgp 4;46 4;50 ô C n²xgpv²gv²o²p{ vq^xddh²l²gu²v²ug 4;50 ô C| Qtu^ai qu Vgvp²xgr²uk Crr xku|c^an²v²uc 4;60 ô Mrgdngdgti h²tf²q^auck

c vɣvpxgɣɣu 2 u c urqtv p2ru|gt uɣ2ug 2tfgnɣdgp 4; 6̇6̇ 4; 70 ̇ C Vɣvpxgɣɣuk H kumɣr hɣɣɣɣɣuc 4; 7̇6̇ 4; 80 ̇ C eugntɣu|gv v̇o qi cv̇uc 4; 80 ̇ C xkɣ2nk urqtvɣv 2ɣɣɣɣɣu2tg k̇a p{ẇ} v̇4gnx2ugm 4; 90 ̇ C Vɣvpxgɣɣuk Vcṗa eu j̇a|a/ pcm o gi u|gt|2ug= c hɣf gv w|qf c hɣɣɣɣɣu 4; 90 ̇ C Mɣdgnɣdgti l̇f tcf q|a uck c| qkro r k u|q nq̇p xcṅ u kngtgu o ci {ct u|gtgr ṙu 2tfgnɣdgp 4; : ̇6̇ 4; ; 0 ̇ C O ci {ct Qkro r kckV̇a tucuf i o gi cncr ɣ̇uc 4; ; 0

ZOHGLG\ GV(.....)522̇6̇ 545

Gn ṅu|Ár gv c rwdɣekul v̇nck vgx2ngp{u2itg 522̇6̇ 5230 ̇ O k̇tv ṙw Mɣdgnɣdgti rwdɣekucA 523̇6̇ 5240 ̇ Rtqr ci c p f c/o »f u|gtg : 24̇6̇ 5250 ̇ Ekmṁk vgx2/ ṅp{u2i2xgn ̇o gi j quu|cddɣcpl̇i rt»ḋa rlc c o l̇pku v̇tk j cv̇uṅ4v 525̇6̇ 5260 ̇ C r t q d i ̇ o a m rwdɣekul v̇nck v̇t i {c ṅ u v k i {g m u|k m c p c r k r q i k s m e u|g o r p v l c k l̇4̇ go grpk 526̇6̇ 5270 ̇ C ̇ṅṁc u|k w u i rwdɣekuc o g i j cv̇t q|a u c 5270 ̇ Rwdɣekul v̇nck o ṅ4̇2u2pgm a ṁqo a uck 5280 ̇ C ṗg a p c e k p c r k p k u o l̇p v p g o |g v p x g ɣ ɣ u k r t q i t c o o u o l̇p v g i 2 u | m w a r r q i k s k n e k o ṅ4̇2u2v d g v u | l̇p v | k u 529̇6̇ 52: 0 ̇ C o c i {c t p g o |g k 2 t | 2 u t g p f ṅk Ák g t g l g 52: 0 ̇ C | 3̇4̇3̇4̇m o c i {c t p g o |g k 2 t | 2 u p g m o q f g t p v c v e m c v n g m c f p k 52: ̇6̇ 52; 0 ̇ C l̇q i 2 u ṅ4̇g n u a i x k u | q p {a p c m Á l a t g p f g | 2 u g c o c i {c t 2 r g v t | 2 u d g p 5320 ̇ C v g t x / u | g t u 2 i t g k a p { w } p g o | g v p x g ɣ ɣ u 532̇6̇ 5330 ̇ C ̇p 2 r k i 2 u c ̇l̇c l̇k i i q p f q n v 533̇6̇ 5340 ̇ C w a p k o w u 5340 ̇ C u | q e k̇ r k u h g l n f u h p v q u i c : 350 ̇ C p 2 r k 2 u p g o | g k i q p f q n v 3̇4 u | g n e r e u q i r a p c m u | Á m 2 i g u a i g 5350 ̇ C m w w a r k u g n t g j c r f a u 2 u c i c f c u i k d q f q i w i u u | 2 v d q p j c v c w p g i { u 2 i g 5360 ̇ C h c u e k o w u r 2 f a l c 5370 ̇ C Mɣdgnɣdgti h ɣ t q i a u c h c u e k o w u » n 538̇6̇ 5390 ̇ C h c u e k u c o w p n c / j k p v u | 2 v g m g i 2 u g : 39̇6̇ : 3: 0 ̇ C ṗg a p c e k p c r k u c g r 2 r g v h q i c f v e v̇ u c c o c i {c t u | g m g o k 2 r g v d g p 53: ̇6̇ 53; 0 ̇ C Mɣdgnɣdgti g i 2 u | r q i k s k n e k 2 r g v c v̇ o c f a u q m r g t i v a 2 d e p v g v g n 542̇6̇ : 430 ̇ O c i c v c t v̇ u c c h q n | v q p o g i Á w } v̇ o c f a u q m n e n u | g o d g p 5440 ̇ C o g p p { k d g p g i { a n c i r p h g r v k u c u | g o 2 ṅ g u n g f 2 u g n t g c ṙi v̇4 d u | 3̇4 p g o x a n u | q n v 5440 ̇ C Mɣdgnɣdgti ̇p { w i c v i o c i {c t u i c *54: +

GRK̇ I WU (.....)546̇6̇ 55;

C Dg j ṅp/ṅqto a p{ ṙo q p f a u c 5460 ̇ Mɣdgnɣdgti g ṅp h q n | q w g t x g n h ɣ r / ṅi p i q n c r c | c t r i u x a f l c 5470 ̇ C Mɣdgnɣdgti Á o p ̇ ̇ c | c t r i u c u c u | a o q m x k i a / p n 547̇6̇ 5480 ̇ P g n k l w a q w c j a ṙ u c p h e r c f c v j j c i c ṅ4̇ x 2 r g o 2 p { v j | a / u | q m c u c c t 2 i l̇p ṅ p c i { q d d o 2 t g v m w w a r k u n c f a u q m x a n c i r u p c m g m g t Á / j g v g v p x q ṅ j q | 5480 ̇ T a n q u k I g p 2 u C r r q p { k C r d g t v x 2 r g o 2 p { g g r q p v t » n 5490 ̇ C Mɣdgnɣdgti h ɣ t q i a u c c | a r f q l c v q m o l̇p k w o a x c n c | g t g f o 2 p { g m o c z l o w o a v n g m d k v u | c p v p m : 4: 0 ̇ C m ɣ d g n ɣ d g t i k ̇ c | c t r i u i v̇4 v̇ p g k v̇ x r e v » n 54: ̇6̇ 54; 0 ̇ Ngo q p f a u c ẇ p rwdɣekul v̇nck o w p ṅi u a i c o 2 i g r x g / p e d d ṙu | < m Á r q i k s k n e k r t q d i ̇ o a m n e n x a t q r q i k ṅ x c n C r i 4̇ f / ṅi t f 2 u g n h q i ṅi / ṅu | k m 552̇6̇ 5530 ̇ C x k i i x a ṅi t q o d q ṅ j c l n e o a x c n u | g o d g p o g i r t ḋ a r l c m w w a r k u c m u v̇ u c k v x 2 f g m g | p k 5530 ̇ Ṁq o a p x 2 r g o 2 p { Mɣdgnɣdgti m w w a r / r q i k s k ṅ i t » n 5530 ̇ Q r u | q t u | a i d e ṅ u | Á n j q i { g n c f a u u q t q l c v q v v c t u a p c h c u e k o w u m Á r i 4̇ f k h ṙi o c i {c t q t u | a i k 2 t v̇ n g r i u 2 t n 553̇6̇ 5: 40 ̇ C r i 4̇ f k w c l a u c k e o g i d g v i g f 2 u g ̇ j k v g n p j c r i r : 540 ̇ V g o g v̇ u g 5540 ̇ C m Á r / ḣ4̇ f k u c l ẇ d Á e u Á l c 555 ̇ C Mɣdgnɣdgti 2 r g v o x 2 p g m e 2 r l c < Á l o c i {c t n g m v c n e t v h t o a p k c o g ṅ g r i g t u ṙu | c v̇4 v̇ p g k j c v̇ t q m x k u | c u | g t | 2 u 2 t g 2 u g r i p c i { x a p c n Á g j c v̇ t q n q p d g n Á n g i { o q f g t p g d d a n c o h ɣ r ṙ u 2 t g : 56̇6̇ 5570 ̇ C Mɣdgnɣdgti . o l̇p v U 2 e j g p { k v c p f w a p { < r a t j w | c o q m 2 u g n 2 t u g m 557̇6̇ 5590 ̇ W w n i q u g r i o g t 2 u g m < I 3̇ o d 3̇ u I { w r e p { k r v u | c v c : : 90 ̇ C Mɣdgnɣdgti / ṅk ṅ u 5590 ̇ G o ṙ ṅ l̇k q w a i = x k u | c g o ṙ ṅ g l 2 u g n = o 2 n c v̇ u q m 559̇6̇ 55: 0 ̇ U | q d q t h ɣ r ṅ u c h x a t q u d e p 5: ; 0 ̇ C Mɣdgnɣdgti 2 r g v o x 2 p g m x 2 i u v e p w ṅ i c 2 u l̇p v g m g 5; 0

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