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O CI [CT U \ GT \ M X f O ~ T f UCK

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D! VC KT Q F C NO K TV0 MKC F f UC

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6439690 Cj gpcgwo . Dwf cr guv / Hngn u= M^a tr^a vk Cpen
Kí c | i cv»0

C\ Q N X C U ~ J Q \

I { lgo ²p{ \tilde{A} pnp_{gm} gru uqt dcp u | » t c m q | v c v^a u c e²rlcOC u/go gix²p{gmkf tgpfk lgruqt c n q | w v^o u c pgo c | v c r^l u | c v q v c n e t l c n g n g p k j q i { k w c o c i { c t j w o q t p c m o k p v g i { l g l n f² u / v³/4 v² p g v² v n^l k^a p l w m c f p k O G | v n² v q n d » n u g o v g j g w \tilde{A} n O C | g i { k n q m < g n n g n g w n g t \tilde{A} p \tilde{A} p m c u q m x c u n q u c d d . f w t x^a d d v² l² v . o g r l c o c k n² p { g u g d d } r^l u w u² t v g p² u e u c m c v³/4 v² p g v k² t /² m n g n d^l } » w f » w² t f g n g r j g v k o k p v n q t t c l | k c f c v O C o^a u k n q m < l f u l g t v r g p p p g m v g u l k n o n \tilde{A} v² / p³ / u g p p e r l c k p m d c p o r i O c } O u l^a | c f k x c n^l u q u j c t e q m g o r^l n g l p g m l g n \tilde{A} l^l } u c . j k u l g p g l g m k p n^l d d g n u l q / o q t } » m o k p v o w c u^l i q u c m u p g o c p p { k t c c j w o q t p c m o k p v c u l c v^l }^a p c m u l q nⁱ a n c v^a m o k i g p p { g t u o r² i f^a k O P² o k g i w f q o^a / p { q u l g n g i i { l v g o² p { d g p j g r l g v w r^l r j c v p c m k l g p u l g o g i x² p { g m f g p g o c p c i { m^l / 4³ p u² i u l » t c n q | w v^o u^l t c } v n^l p { x d g p . o g r l c o \tilde{A} n d » n k u k p n^l d d c f g t u g d d u l } p g n g v v³ / 4 g m u l k n d g o w c v p k O

C u l » t c n q | w v^o u e²rlc j q | w o c i^a x c n j q i { R g v l k² u C t c p { m^l / 4 k u o g t v j w o q t q u n^l / n g o² p { g k d n n g x g u g v n^l / 4³ / n g o O O k p f n² v n^l / w o x g k o c o^a t o g i x c p p c m c r g i n k u g d d l c n w u k n^l p { x v^o t d c p k u O V g r l g u s p c | q p d c p o² i u g o j k^a p { q | j c v p c m i { l v g o² p { \tilde{A} p m^l d n u } l c v n \tilde{A} n x g w p² j^a p l u l g o g i x² p { v g i { k i g p² t f g n g u t² u l / u l g n g i² u l } g w g o n k < R g v l k² u C t c p { n g x g r l g² u² x g n o g r l p c i { q d d n^l p { x v^o t c n q p n^l k \tilde{A} n C t c p { j^a t e j c i { q n w k e v k d c p . v g^a v p g j g l g p j q | l^a l² t j g v j g r l g p w r^l r j c v » o g i u c n^l / 4³ p u² i p c i { t² u l g g n w v g r l g u s p k u o g t v g p O R g f k i g l g n p g m c n g x g r l g n p g m u l g / t g v t g o² n » u^l i c . j w o q t c² u u l p v g u² i g c x h^l i k q f c r q o d c p k u r^a t l^a v t k n^l l c O

C o \tilde{A} n u l^a | c f x² i u q m² r e r c r l c n^l / 4 \tilde{A} n g w v o w e v q m d g g i { r^a t n g f x g v g d d k n u l w^a e k » x c n c | g u o c i { c t² r e r c r q v < c E j c t k / x c t k v u c n^l u d d k n g p i { | g f g r o g u n g f . r g i j q u l / c d d² n g v g v² n v

Dqt uul go Lcpn^u/0 O kpf c ngw xgn c/ kf ugdd pgo /gf²m uqm
 wi lc n^u p^u i^a pcmvgul gmrgi gv. fg c/vj kul go eucn^uf^au²tk ngv0
 C/ ²regm eucm i ul kn^a n^e u j co ct gj co xcfpcn0 Co kp xcrc o k/
 nqt pci { qnev n^eeci wm c/v uclpqu o quq^rt c ku cki hqi l^am²tf g/
 o gu^ugp^u C ³/ldk ²r^erc r o²i lqddcp grxwn0 C/ »w greu²rgw
 /ul^f » / ²u eki^a p^f cf qo^a m kf ul gt u² i ²Angv xgu/vgwr q^rtk² regm
²u e² r^a uqmv³/nkno gi ngv0

Gi {²d o qpfcpkx^un^upcm c Lgi { / g v g m tqxc^vdcp
 cf qmj gr^f gv0

G nⁱp{x o gi lgrp²ug c nkcf » ³/rgvg xqn²u j^a r^fu xci {qm
²tv. j qi { ²rxg/vgu o wpr^ut c cfqw cm^urcv0 Fg x^atcw^urw
 jcu/qppen ku l^atv c o wpr^uo. o gtv c jwo qt^upcm c u/cv^uf^axen
 xcn i {cnqtk²tkp^ung/²ug o k^uw u/cv^uf^apm³/4^vpgv²ku^awcpw^a/
 p{q/xc²tfng^ucfvq^utc dwm^urcv^uo u ^u{ eucn^upgo n²u/gp^am
 gi { o^aukn jcuq^un^u cpvq^unⁱ k^o <³/4vu/^a | ²x u/cv^uf^alc
 e^uo gr0

M^u/ ³/pgv c nkcf » n^upcm c/ Cj gpcgw. Fcpvg. Ht^ucpm^uk/
 V^atuw^urcv. T²xck Vgu^ux²tgm Upi gt ²u Yq^urt^ugt ^uqf0 K^uv²/gv
 U^afkw Ucl^ux^anc^urcv^upcm j qi { u/go gr²p{gk^upm³/4^ru²v q^rt n²u/
 u² i i gn^upi gf² r^fg/^vn0

M^u/ ³/pgvgv o qpfqm Vt » eu^f p{k \ qn^a ppcm ³/4 n²tv o gi.
 j qi { ugi ^uu² i²tg rgi {gm g o wpr^ut dcp. pci { gr^uqi rcn^u i c o k^uw
 c/qpdcp n²p{vgr^ugp xqn^uxku/cr²rpk c u/gtngu/^vw r0 Fg c/w^ap ku
 j c vj gwg. ugi ^ugwp^ung^uo

Ngi pci { qdd n^u/ ³/pgwgn c/qpdcp c/ ^u » n^upcm²u c/ ^u » mlqi/
 w » fck^upcm vctv^u/qo. pgo eucm²p. jcpgo c/ q^urcu » ku0 C jwo qt
 i { » i { u/gt²v j q/^vm g n²p{xdg. j qi { c u/gpxgf ngv dgvi gngv
 u/qo qtAcn^uv gpg²/ kf dgp hgr^ukf ^uu² m u gt u^uu² n0

Dwf crguw. 3; 640 o^a lwu^f dcp

Mgo² p{h^f L^a pqu0

ZOU *f* \ CF

GN J CPI

NGI T! I KDD HGNI [\ | UC O CI [CTUf I
J WO QT! T \ | M T N

C UCPEV/I CNNGP KVf DQTQ\ f U

Gpi kdgtv cr^a v o gi o wcvv r² rgnlgrpr² v² g pgj² | kf /
dgp0 O kj gn(v j f|g l³/₄ v c xgu² n(pgm c| k o qucdd u| gt| gvg/
ugmpgm o gi rctcpeuqnc. j qi { ³/₄ ugp² hgi { xgtv0 G| gpn² An
gt u² k c mcvtqo eugr² fu² i² v² u o ci c ku. o kv c| —t mvq/
p^a lc. r^a pe² n² ³/₄ xg c h²/₄ v xkugrk c euwm^a v² u c| ³/₄ gv² u c
v² tucp² cm wi { cpgl v rctcpeuqrc0 P { k² n² v n² u | f| gpgm fct>e
d>n r^a pe² n² n² u | An rctkw^a nev hppcm ³/₄ u | gkngul vgw fgu /
n² n² » n² u h | hchp² cvd>n rcl | u² r² v euk^a r² cm c f^a t^a nev² u
fqtqpi qn² vo gi j gi | gl xg v | dgp ngo² p { f| kn0

Gi { gugmc d² v m² u c eugr² fu² i n² 4 An grkpv² pgo j ku /
pgm c j f| pgm² u pgo c nctpc² m o gpgm² k0 O gpgnx j gn(pgm
nku go grk c rgi cm² m cu² dd j gn(gv c nq² nqvqt n² 4 gr² dgp² u
x^a t² r² f² u² j gl hqi pcn0 P gj gl gp o gi n² 4 gn² j gv j gn(gp go gn/
ngf gw c| ki gp gt u x^a t. o gi gt u² xg u^a peecn² u r² x^a i qw u^a n/
l² m² r0 I { qtucp dgu| gt| km co k eucm u | An² i gu0 Qf cxku km
c mcvtqo nkpeu^a t^a v ku. u v t³/₄ v² p³/₄ xg o² i n² r qp^a v ku
tgp f gl pgm dg0 C | ³/₄ gi gngv c i { gto gngmgn gi { Aw c| cr^a v c
wxqp v² t² c. Y cuugtdwti dc m² r² f² ³/₄ xg. o gn(gv u| kv² p u^a o qu
eugr² fu² i x² f gw0

| llgn² p² r² r² en l^a tv² n² rgn² gm c| tu| go gm j qi { gn tg
lgrgv² gu² m c| gngp² u² i n² 4 gr² f² u² v c d² v m² pc² m² u j qi {
gl gm o² i kf glgn² t^a p o gpgm² r² j guugp² gm c x^a tdc. d^a t ugj qi {
ugt² k c nct² v² m grj k² pk j qi { U² cpev² I cngp x² r² j c d² ctd^a t n² | tg

, ;48/dcp c o ci {ctqm F² n² P² o gv² tu^a i dcp c ux^a d h²/₄ f² p
r wu f| qvcm u gi { nkugdd euc² cv² m c Dqf gpugg n² 4 gr² dgp c o ck
U^a ledcp hgnx ucpev² i cngp/k nq² nqvqt² i j cv² n0 C nq² nqvqt² r² p c nct²
Gpi kdgtvcr^a v^a nq² w0

lwj cuuq0 O ci c Gpi kdgtv ku eucnpgo gm²ugw c ngi pci {qdd ft^ai cu^ai qnpcm c| gt u²i dg xcn» u^a n¹u^a xcn⁰ } i { o ctecf v qw c| w^a p c| gmgpu²i pgm U gpv Qwo^a t qn^a to gpp{g| gvg⁰ C| gmgpu²i vi {cpku pgo l^a tv gi { v³o gi dgp. jcpgo gmgp/^a m¹ utc ugj qn ugo v^a r^a k^a c. eucr cvqpn² pv u^a m¹ qw c o gi c x^a tq/ uqnev² u h^a r^a k^a nev² u n¹ k^a q^a u¹ v^a u w^a p hgn ku u| qmc c| qnev i { Æ/ vpk⁰ K⁰ { o » f qp x^a t cvcpwn v^a o cf j cwem t^a c o gi rgr gwntg. cj qn cnetv⁰ C| gtf n¹ n ku gn u| qmcm v³pk cki u^a | t c t Æ » eucr cvqndcp⁰ Eucm c h^a u² u c v^a g^a m¹ n x³4³4n n¹ pi j cv^a t lgrg| vg. j qnxcppcmc| gi { gu eucr cvqnd⁰

C o k^a k^a m¹ n¹4 v xqiv cmmqt gi { J g^a t^a k^a r^a f p^a g^a x ki gp gi { / Æi { ² u dwe h^a v^a t. n¹ k^a p^a m¹ o q^a p^a u^a c^a k^a p² u v^a g^a w^a k^a p i { cntcp p^a g^a x^a g^a w^a m c v³4 d^a k^a m¹ O k^a p g^a | v^a tuck t² o Æ^a n¹ p u^a » n¹ k^a v^a m hgn c o g^a p^a m¹ Æ^a utg. ¶ i { x^a r^a u^a qn^a < i H^a w^a u^a p. cnk cnet. ² p d^a k^a q^a { pgo h^a w^a qm o g^a t^a v c i c| f c c| k^a ² p o ² i pgo cf v c nk p^a g^a m¹ c uctw^a xcn» d t v⁰ | u o k^a p c| v^a p c x² i u r^a g^a t^a d^a g^a p gt xgn cnet^a v^a m g^a r^a k^a p^a k^a g^a m¹ p^a u^a gi Æ^a v^a ² u o gi g^a m¹ Æ^a ³4^a v. j qi { gn pgo o gi { c f f ki . o ¶ c p^a g^a n¹ k^a l^a t » d t v^a n¹ k^a pgo c f l^a n⁰

Dg ku x^a t^a c o k^a p^a f gp h^a r^a g^a o p² m¹ Æ^a n¹ c o ci { ctqnev⁰ O clf / pgo gm²uxg o g^a p^a m¹ Æ^a p^a g^a m¹ c d^a t^a v^a qm o k^a r^a w o k^a p^a f g^a hgn n j c^a v^a u^a | km c t² o Æ^a v^a n¹ k^a n¹ u^a < i V^a Æ^a v^a p kw c| gmgpu²i #Æ r f g ki o c^a n¹ e^a u^a v^a n o gi o ctecf x^a n¹ k^a o q^a p^a f qw cnet^a v^a c o g^a m¹ w. qw u² v^a n¹ i cvq⁰ Gi { u| g^a t^a t^a eucm dg^a v³4 p^a g^a m¹ c p { k^a c u^a q^a n⁰ C| gi ² u^a | j gn¹ g^a v i q^a p^a f q^a c^a p^a v^a h^a Æ^a n¹ u^a | km pgo tgo² i^a j^a v v n¹ Æ^a n¹ gi { g^a r^a o gv n¹ t xci { pgo 0 Qw r^a g^a k^a m c d^a t^a v^a v^a n¹ k^a v o k^a p^a f g^a | pgo | c^a x^a c^a t p { v^a i c^a n¹ o^a dcp⁰ Euq^a f^a m¹ u^a | p^a c m j qi { o kv cnet² u o k^a t^a v pgo h^a w^a qw gn² u c x^a g^a | g^a v m o gi r^a c^a t^a p^a e^a u^a q^a r^a k^a c. j qi { c f f ki o gi pg ³4¹ ² m v^a m¹ ^a eu Æ^a l^a p n¹ k^a n¹ t^a f g^a | km⁰ O k^a n¹ t^a c| v^a p n¹ v^a m u^a | ³4 p { quv^a / d^a c^a i^a v p^a g^a x^a g^a o gi n¹ o ² r^a k^a n⁰

U gpv I cmw m qn^a t^a j q^a | pgo ku p { Æ^a p^a c m o g^a t^a v o^a t i { cntcp v^a r^a c u^a | v^a n¹ m j qi { k^a | g^a p^a g^a n¹ d^a g^a pgo v^a r^a i^a p^a c m o^a u^a v. o k^a v j co w² u euq^a v^a q^a n¹ v⁰ O gi n¹ t^a f g^a | km c d^a q^a m¹ p^a f l^a w^a » n j q^a x^a t^a g^a l^a v^a v^a m gn c n¹ k^a p^a e^a u^a g^a A G^a n¹ u^a | u² i g^a u^a p^a q^a f c x^a g^a | g^a k^a n¹ g^a v c n¹ k^a p^a e^a u^a / v^a t t^a g^a l^a v^a n¹ c l^a v^a j q^a | . o gn¹ g^a v hgn³4 p^a g^a m¹ f g pgo v^a r^a i^a p^a c m qw o^a u^a v. o k^a v i { g^a t^a v { c^a v^a t^a v^a n¹ v² u c^a t^a p { q^a | qw eu^a k^a n¹ t^a q^a n¹ v. o gn¹ g^a / n¹ g^a v c u^a g^a v u o g^a p^a m¹ Æ^a t^a u n¹4 dgp q^a v j ci { v^a c m co k^a t^a v t^a u^a | g^a f / l^a Æ^a n¹ g^a v r^a q^a h^a p^a q^a m¹ n¹ h^a p { gi g^a v^a n⁰ M^a g^a w^a g^a p h^a ³4^a u^a | p^a c m c v^a t^a q^a p { t c c d d c p c j k d g p. j qi { c v^a g^a l^a ² p r^a g^a n¹ e^a n¹ e^a u. c j gn¹ k^a v g^a p^a pgo n¹ g^a j^a v o^a u^a d » n o k^a v c^a t^a p { d » n² u co k^a v c| gi { km gt u^a g^a p gn t^a g^a j c l^a r^a k^a m j qi { c n¹ p^a f | u^a l^a xcn r^a g^a h^a u^a ¶ u^a g. c| w^a f x^a c^a t^a d^a g^a u^a k^a m¹ ² u u^a | ³4 p { g^a j c i⁰ C o^a u^a k^a m r^a g^a f ki c v^a g^a | g^a v u^a | ² r^a t^a g^a ^a m¹ q^a w. f g r^a g^a d^a w^a n¹ q^a w² u ³4 u^a | g^a v³4 v^a o ci^a v⁰ G n¹ g^a v v. o k^a v n¹ u dd J g^a t^a k^a

dcif gndgu²ng. c| cl»dcp gr²i gw²m Āi { j qi { c m dqi »
o^ai n{c dngner qw c u| go 3/4f 3/4n² dc. fg d^at fqtqpi qmēn
r ku| n²m c v² gv. I cmwupcm vgo r m²o^av o²i ugo d²v²m
hgi { Āvc p⁰ C dci^a qm n²4 3/4 r kpe² l² dgp xqnv n²v u| p² Ānki
vgrg dqtquj qtf». o gn{gv Āi { j ci { vcm o gtv cdcep c j gn/
| gvdgp ugnk ug² tv t^a dghqi pk c| 3/4n² 3/4ng⁰ G| gngv c| gmgp²i
pgo p{ kqwc hgn v² p o kgn u| gngt gk² grgi gv j q| qw o ci^a/
xcn⁰ O gtv o kf p c| gi { kn d^a tf l^a xcn eucr nqf xc^a v^a i qw
gi { cdtqpeuv. J gtdcif. nk o^a t gi² u| dk cm cup l^a tv ngrv
n²4 3/4w² Ām p² { u| » n² c i J cff gn l» go dgt. j^a v o k o kv ki { wpm
j c k gm gpv n² G| vqm^a eu Ā^a p o gi² tv xg c f qn qv. n²eci xc
n² tv² v² tukv j qi { pg d^a p v^a mc| d qmpf lc j qtf » k⁰

G| c^arw tu| go gngv m² Āf gpgm o kpf gph². j qi { o kpf g/
p² Āw m wcu^a m^a v c| gtf u² i gv² u c tglvngngv² u c t² v² p gnu²/
rgf xg i c| f ci r n² o^a j q| hqi p c n⁰ C xgl gv m c m²cut qo v² t² g
vgrg gf xg. d u² i gup r n² o^a | vcm c ugtgi i gr⁰ J gtdcif ku.
o kpv o qpf c. Āi { l» n² n² w cm² t. o kpv uqj c⁰ m u| qn² uwm
u| gtkpv gi { gpnkpv r² j gxgt vcm c i { gr tg c| gd² f j g|. c d qmpf
r gf ki o ci^a p c m² u x c r o k hqi qn² r c r p c m r c f q n² v j q| qw.
m c r r q e n² n² v h² r ki p{ gtugp. n² u p² m² Ān hqi w mēn o ctecp/
i qn² m u² v² u c| w² p v² l² d» n gi { o^a utc j c l ki^a n² m c r g x^a/
i qw euqpv n² C n² 4² r gp vgrg m^a n² c p^a m² w c dqt. o k p/
f g p n k c p p{ kv o g t² gw. co g p p{ kv eucm c n² t⁰ O kn² t r gf ki c
dqt » n pgn⁰ grgi gf vgm o kpf c p p{ kcp t² o gup gmg² f vgm
n² n² q| pk kngp gkn² j² u c r c r qv. o gi c d qmpf l w n² v ku n² p {/
u| g t² gw² m j qi { vi { c p g| v vgi {² n⁰ C r c r. nk l » n w f q w p { gn/
x Ā n² p. co k p gm² r g v d g p o c t c f^a u^a v ku n² 4| 3/4 j g w g. gt ugp
n² c d^a n v x g n² 4 m² u o k w² p o^a t p { g r k Ā n² p grgi gv n² to^a | qw.
n² 4 p p { g l x g g m g | f v g c | c p v² r j q p^a v³ c u| g p v n g t g u | v t n co gn/
p g m o gi v² n² v² uc Ā p p r g o^a u p c r * o^a l⁰ 50+ x q n⁰ J g t d c i f
r gf ki c | t g n g f v j c p i l^a p x g r g² p g n g n⁰ C h q i n { q m u | q n² v e p
f c i f t c 3/4 u | g i { n p g m o k p f² u e u c r q p i » l » n g f x x g n v² p e q r p c m
² u d k n » | p c m c x g l² t g m g n v⁰ O^a u q m r g f k i h g i { x g t g u g p 3/4 u | g /
e u c r x c o w c w² m n k j c t e k Ā i { g u u² i Ā n g⁰ G | c r w c r c r. n k
c x² i u² i g l k f g l² v c m e m c u p e m v² n² n² c t t c. j q i { o g i u | c d c /
f w i u² t v n² 4 p { 3/4 3/4 l³ p. n² 4 p p { g l x g c x g l² t g m n² d c l j q | d q t w w.
f g c | q m x c f w n o q t q i x c. e u c n p g o t³ 4 3/4 x g w f v² t c c f v² m
u | q n^a k n p c m c n² e t w n² C | q m f Ā j 3/4 u g p g n t q p e p c m p { q o d e p
n g t^a p v^a m c | go d g t v² u n k x q l^a m n² u n g v. j q i { v p u w^a l^a p^a
e u Ā h v g l v u g p g m o k g n w r g p { c n² | p^a n⁰

³ Gi { j^a | k² p g m o g n { g v c n e t q m x^a n c n q | x c² p g n g p g n⁰

⁴ R k r k u < c h g l d Ā d q p n k d q t q w^a n j g n⁰

O ƒi gl gm v̂4v²ppgm c| gt uu²i hgr̂ gu gtf d n qfc/
 ukvpgm c| tul go gm m̂t̂u| »xcn ²u r̂to^axĉf0 J ƒi Ān j q| |^am
 j qi { c n̂4 gr̂dp xcp gi { n̂v̂pcu^ai i cn o gi tcn̂w x^at0 Gttg
 c r̂erqv ²u J gtd̂cf̂qv qwj ci {xc c m̂cutqo dep. i {qtucp
 n̂kqj cppcm ²u ul qn̂i uwm ul gtl̂pv gi { r̂k̂m̂pcv ĉr̂w eucvctgpf dg
^am̂pcn0 J cm̂^ap. j qi { c x^at ul k̂vg j q| |^al̂t̂j gvgv̂p ²u j qi {
 c X²f m o ƒi xcp ²gr̂o ¾n j c l̂t̂ĥcm pgo cf l^amo gi o ci v̂n̂v.
 gij ci {v̂ m c m̂cutqo qv. o k̂gn I ĉmw. cppcm k̂vgp̂g. Āi {ku
 d̂ƒi c v | | gr̂0 Fg j qi { l̂qddcp r̂̂ v̂j cuucp̂cm ô o gt v o^at cm̂q/
 p {qf̂qw ô c ĥcnw p²o gn̂{ j^a |^av ĥri { Āv̂q̂w^am c| ŵp v̂r̂l̂gu
 eu³/pf̂dgp gr̂o gp̂vgm c M̂ĵpucpe ĥr̂̂ x̂gl̂gv Ā̂qp0 C x^at/
 dĝr̂k̂gm c| qp j k̂dgp. j qi { gn̂³xq|^auwm̂qt ĥri { Āv̂q̂w^am c
 n̂q̂r̂uqv̂t̂v. o gn̂²m̂ŵcn̂q̂p ŵ³p̂wn ĝt̂gf̂vgm ²u c ugt̂gi o ¾4 ¾v
 o gu| gdd j ĉr̂cf̂v tul go gm n̂4 Ān v̂4d̂dv o gi ¾4v̂gm gi {gv
 r̂gf̂ki o gi uĝd̂gu| x̂g ĥq̂i ū^ai dc gl̂vĝgn0 C v̂4d̂d̂k̂gm o gi /
 o gp̂gm Ā̂vgm ²u m̂t̂u| »xcn l̂gr̂v cf̂v̂cm c ugt̂gi p̂gm j qi { xk/
 i {^a | | qp0 G| qn̂{ i {qtucp. o k̂pv d̂ƒi v̂. o gi ul^am̂q̂w c o gl̂v
 ū^am̂^ai qv. i {qtucp eucvctgpf dg^am̂q̂w. c| ŵp r̂gf̂ki ul gn̂t̂gm̂
 n̂gn ²u r̂q̂fi {^au| cn ¾g| v̂g o ci^av. tul go gm x²f̂gr̂o g ĉr̂w
 euĝpf̂guĝp v̂4n̂³4v̂g c| ²lv. gr̂p {qo xc c d̂qt̂ŵn ²u c|^am̂q̂o ŵr̂0
 J cl̂p̂nd̂cp r̂gf̂ki dĝl^at̂v^am c n̂4 gr̂k ĥr̂k̂cn̂v. o gi p²| v̂m
 o kv j ci {v̂m qw c| gn̂ Ā̂m o gp̂gm Ā̂m ²u c| ²r̂ Ā̂vĝnĝv.
 co gttg o gp̂vgm ĥri { Āv̂q̂w^an0

ZX0U \ f \ CF

ICP WURCP P QP KWU

EUG O EKGKf P QU

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O^a v^a u nkt^a rj q/

D³æu c nkt^a n^l. j c c j cte o gl² p ug hgrglv gn³grpk=
X²pwu| c eu»npcm³4 Ænu o gi p{gtkO ctu ngi {gk0

C rkrqi {c k^ltlj g/

H^lthku cuu| qp{ c p f Ncf xcpewuqo² u vg r wj^a p{ xci {.
O gi r^luf o² i c ucl^a vp f hgru² i g rgu| gr0

Gi { p{qo qt²m »n

f uuc c h³4f gv u d^a t p{qo qt²m o² i u^l a pvcpk ku wf=
Cff pgnkxku| c ngl² vu rqr lc o gi k^lpv c per qv0

Cwtkur^a t »n

D^a tj c wf »u Cwtkur c. pgo ¶ uqj c ugo o k0 Wl {cp o² tvA
Cw»nxtvc fgt² m j qi { dwcu^a i c nkuA0

Ukxk^l j q/

C| v o qpfqf. i {gtgnf xcp v rgo u l^a tu| c p{cneo tc
Ukxk^l = h^læuc c x^a f u lqi vcrp ku nleukn^l o 0
O gtv j c vg f Æ v^l xklugm n³4 v l^a tu|. o qpf f. ¶ { ngugtgi u| /g<
X² t| knc r^l dco u lcl. r qpvg| c v^l Æng j kd^a u0

C xp[¶]»j q/0

˘tpk vp[¶]¶qf c i {gto gngngv. vg fgt²m I cngqwq.
V³/dd ctc{cvner . cnknq| o gkn[†]te vp[¶]0

C j cl»v³/4³/vHtcwf wuj q/0

Htcwf wu c R»dc o gt[˜]n u xgti fxg c| ²i tg nk^a nqw<
~ . gl c eu^ˆp{c jcn[†]n ²t wqn gpi go gv ku0
J qi {j c c x²i | gv rqp v hqn{cf²ndc cnetv dgg³/4pk
Dcej wu| qo cpp{kc dqt. o ²tvki {co ²p c xk gvA

**Dgte|grkCOM^a tqn[†] lqt f[¶] u^a d»n+*

ZXIU \ f \ CF

M ~ F G Z G M

OK TV PGO I [~ PVCVPCMC\ CRf Ef M

EQTP K GUM FGZ

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(00) nřtf gkm j qi { wtpm Mřku| wu o řtv lgrgp² o gi
 c| hgn³ o cf^a u^a v cuu| qp{^a mcvmpcn0 Hrgngvkm gttg. j qi {
 g| v ř²x² wtqpm L| wu gn u| gt o² n»u^a i pcm qnř² tv. j qi {
 g| dgp cfpc pgm pm r²ř^a v j qi { c| u| grn vgrp u| | O^a tř/
 pcm Kvgppgm cp{^{1a} pcm řku| vgu² i²² tv o gpf gp cuu| qp{^a mc/
 vřnevku| vgrp² pm(00000000000000000000) O^a uqf u| gt ř²x² g| v kř xg| řv pm
 c|² tv. o gtv c| v cnet^a. j qi { c| hgn³ o cf^a uc o gi lgrgpvř
 p² m gi {gdgnpgn0 Fg o řtv cuu| qp{^a mcvřm řknřv pgo vtv
 j cvpcm fg xcrvo kv j cřkpcm c| v řgi qwep o gi lgrgpvřm gi {g/
 dgnpgn0 C|² tv cnet^a wtqpm ku c| hgn³ o cf^a u^a v gn u| gt
 o gi lgrgpvřk cuu| qp{^a mcvmpcm j qi { jco ctedd nřj kř gv
 vgu² n0 G| t n kř gp r²řc qřkcuvřkř p² o gnř mcvtqo dcp
 xcrř pcm cr^a e^a m nřm řppgp nř⁴ v m g| v grx² i g| gm j qi {
 nř⁴ ř⁴ gm řndqeř^a v^a pcm ngw v nřm grv gpp² pgm T»o^a dcp
 Ā r^a r^a j q| 0 Gu j qi { r^a r^a wn o gi p{gtp² lgm g| v pgnřm
 j qi { m gi {o^a upcm c| cr^a e^a m o gi i {»pj cvř^a pcm0 O² n/
 vřppcm cřgl³ m c| v. j qi { c| řkřknev² u i {ctn»u^a i qnev
 gi { řřtkř^a pcm c| c| gi { rcr pcm nřlgrgpvř² n0 C|² tv o knřtqp
 g| cr^a e^a m lwqwcm xqřc r^a r^a j q|. nřp{gti ř⁴ gm xqřc
 r^a r^a pcm c| eqřhguuř² i² tv0 J cřk^a p g| gnřv r^a r^c 2u o gi/
² tv² p c| cr^a e^a npcm gi i { i { u² i gnřv² u rqnřndřkř gřf gi/
 pgm eucřř² u^a v cřc pgnřm gi { dgtgřgu| vřw u| gřgp/
 e² v. o qpf x^a p< o gplvřm gn c| u^a nř^a utc² u xkř {² vřm qřc
 xgřvřm g| u| gřpe² v² u j qřpcr qp tgi i gn g| gpnř r gp d² t/

ngul w_g o gi j q | l^a v_m ²u o kv n² tv_m o gi p { g t k g n 0 V g j ^a v
 m g r o g p ² p g m c | u l ^a n² u t c 0 M g | f g m p ² | g i g v k h q i c v k c |
 u l g r g p e ² v . ²u k i g p ³/₄ o g u v o g i p { k p ^a m x c r c 0 X ² i g l g t g
 n g f ² i o q p f c c | g i { k m c r ^a e c < p { k u u m o g i c | u l g r g p e ² v
²u n² u u m o g i . o k x c i { q p d g p p g 0 H e r g r g c | o ^a u k m < p g p { k u /
 u m h g n o g t v r ^a r c r e t c p e u q n ² 0 F g o c i c x ² i g l g t g . o g i i { /
 | g v ² p g m n ² u ² t v g p p g m o k w c ² u o g i p { k ^a m c | u l g r g p e ² v 0
 C n e t l ^a m x c r c o g i c | q p n g r g p d g t g n g u l v p k 0 C | ² t v o k n u t q p
 h g p { k q w ^a m x q p c . n g i q w c p g i { o c f ^a t t g r A r g n k c | u l g r g p /
 e ² d n n k v c | r ^a r c t g n g u l v g w x c f c d e r g 0 G | v n² x ^a p c | c r ^a e ^a m
 o g i t g w g p ² p g n 0 | u o k n u t q p t g i i g n o g i v ² t p ² p g m r ^a r ^a j q |
²u o g i w f v c x q p c c | r ^a r c . j q i { g n u | c r u l v w ^a m x q p c
 c | o c f e t e v . o q p f c p g n k m < g l d g p g u o ² t v g v m o g i c | v k
^a n j c v c v e p u ^a i v m ²u i { c t n u ^a i v m o g t v g l g p n r r g p v g p p ² /
 v g m g i { k m o ^a u q n p c m j c v k g i { o ^a u i { » p ^a u ^a v j c n i c v p ^a v n 0
 O g t v o k n u t q p c | g i { v g m o ^a u q n e v o g i d ^a p v p ^a l c . u g o o k
 n r r g p c | p g n k o g i i { » p v o ^a u p c m d ² p ² v o g i p g o v c t v j c v
 p ^a _ c . j c p g o j c t c i l ^a d c p n i k o q p f c p ^a l c 0 G | g p n r r g p c | v ² t /
 u c n j q | j ² v q p v ² t ² p g m o g i . c | u l g i ² p { e q p h g u u q t c p { ^a k o .

C H MWU \ M Q X f E U T ~ N U \ ~ N ~ R i N F C

| T U G M - I X f T K M F G Z

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V k w u l e u ^a u l ^a t t » o c k x ^a t q u d c p q t u l ^a i n e . n k k n { v ³/₄ x ² p { v
 u l ³/₄ | g . j q i { g i { g v g p p g i { h k ^a p c m p e r l c o k p f g p g m / n u l g p /
 v g n g v p ² p g n 0 | u x c r c n k g i { g v g p p g i { h k ^a p c m u l A r g v ² u g p e r l ^a v
 o v p n i n » f q n j d e p o g i v ³/₄ p ² | g . j c i f m e n j e r l q p 0 G | v ³/₄ x ² p {
 n j k t f g w g v g n 0 J k c v ² j q | | ^a X k t i k k w u v ² u o q p f c p g n k <
 u l g t g v c v ^a o h k . k n { v ³/₄ x ² p { v u l g t | g n 0 L > n g j g v i { c n u t v c
 v k n u p o g i v ² t j g v m n k n g v ² p p { k x ^a p o g i p g o g u o ² t j g v g n 0
 M P t r i g n r t v v ² i g f g v . j q i { v g w f q o ^a p { q f u l g t ² p v . x c r c o k /
 p g o w f q o ^a p { v u l g t g l n k o k ³ o g i g u o ² t j g u g o c | q n e v
 n k m g l v ³/₄ x ² p { v p g o v c t v ^a n 0 | u ³/₄ o q p f c < W t c o . n g i { g p
 c n e t c v q f 0 X k t i k k w u n g i q w c p g t f g i k w f q o ^a p p { c n p ² o k p g o
 d ^a m ^a p v c | x ^a t c u n ³/₄ g r k p h g n n e v . ²u c | q n u c | p e r q p o k p /

³ O k n e r 0

f gp tglvndgp v̄w d¹pgngv ul qnqw xcrc c| eū^aul^atpcm o gi /
o qpfcp⁰ | u x^afqr¹u^apcm o kwc uqm go dgtgm xgul pgm
xcrc gr⁰ | u xcrc c| xctcudcp²o kpgō nūx^aeu. H̄mwul p̄gx
nk c| pcr qp o x̄gmgf²m o kpv gi {²d pcr qndcp⁰ | u gi {ul gt.
o knqt^a i {^adcp hgn¹App²m r̄gi qwcp i qpf qrc xcrc< o kn̄r /
r gp gl d^ark^appcm x^afqr¹uc o k^a uqm go dgtgm j c̄pc̄m xcrc
o gi⁰ | u j »kcn̄² hgmrg. c| d^ark^apj q| o gpg. o qpf c pgnk
Qj v̄g i qpqu d^ark^ap. v̄g x^afqr¹uqf pcm o kwc uq̄nem xgwv
pgm j c̄r̄t̄c⁰ | p wco tc o qpf qo . j qi { j c v̄g gpi go d²x^af q /
r̄pfc̄ul . dg | gi qwcp c v̄g h̄glgf gv dg³4³0 | u c nūx^aeu
ng²dgp xkw xcrc gi { xgt v⁴ 2u c | | cn h̄gp { gi gv̄k xcrc. j qi {
dg³4² ci {^av⁰ G | gngv o gi o qpf x^ap. gn j c | c o 2²p⁰ Gn
»t^ap⁵ c| eū^aul^at o kpn̄²pv ul qmc xcrc. n̄³g¹gv̄k c| d^ark^apj q|
gndeu^a v̄. j qi { o gi n̄²tf gp²lgm j c xcrcnk̄m c| v̄³4x²pv o gi /
ul gi v̄²mxqpc⁰

| u o knqtqp c| d^ark^apj q| o gpgm xq̄pc. 2u c| eū^aul^at /
pcm c̄n̄ctv^a v o gi o qpf qw³m xq̄pc. o qpf c c| d^ark^ap<
Cv^a o h̄ck go gr²v̄gm h̄gn ul go gv̄ngv 2u r̄ī u^av̄qm o gr̄gm
x^ap xc̄ppcm 2^p j qo r̄n̄qo qp⁰ O gtv ko o^at/pgo o gt xcrc
ul »pk 2u c| qm o knqtqp h̄rgo gn²m xq̄pc ul go gngv. r̄ī v̄m c|

j qo r̄n̄p gl gngv. j qi { < K̄ m x^an̄q | pcm go dgtgm nk̄gd /
dkp̄gm 2u nk̄m ki c| cv o qpf pcm v̄³4gw h̄glgm r̄gul gp⁰ O gpl̄vgm
gn w̄cv̄n̄pcm o gi k̄ gpl²v̄gm o gr̄{gngv r̄ī w̄cv̄m 2u q̄k̄c̄w̄c /
v̄n̄⁰ C | n̄³g¹vgm gr̄o gp²pgm 2u w̄cv̄n̄pcm o k̄p̄ gl gpn̄r r̄ gp o gi /

o qpf^an⁰ | u c| eū^aul^at j qi { c | v j cm̄w̄c xq̄pc. o qpf c c|
xk² | k̄pgm j qi { h̄r̄gi {xgtngf x²p c| d^ark^apj q| o gpp²pgn⁰
| u j c xcrcnk̄ c| d^ark^ap gn̄gp o qpf qw xq̄pc. ng | gk 2u r̄ī dck
o gi nḡv | x²p. pgnk xk̄p²lḡn⁰ C | xk² | gm c| d^ark^apj q|
o 2²p²pgm o qpf x^ap< M̄mgo gv̄u eū^aul^atpcm j qi { o gi /
o w̄c̄ucf 2u o gi o qpf lcf. nk̄m c| v̄³4x²p { v o gi ul gi v̄²m xq̄pc⁰
O qpf c c| d^ark^ap< H̄mwul nūx^aeuq̄v h̄ji l^av̄qm o gi . o gtv
o k̄p̄ gp pcr v̄³4x²p { v ul gi 2u 2²ppḡgo pci { dquul v̄v̄w⁰
| u v̄gv qwcp o gi h̄ji^am 2u c| eū^aul^at gr̄glk̄dp xk²n⁰ | u
o qpf c pgnk c| eū^aul^at< cv^a o h̄ck. o k c | . o kv j q| l^an̄ j cm̄m
o k̄g j qi { c | ul gt | gw v̄³4x²p { v o gi v̄³4²f⁰ | u o qpf c c|
eū^aul^atpcm< w̄co . 2^p c| v̄³4x²p { v ugo o kn̄r r̄ gp o gi pgo

³ O^aupcr tgi i gr⁰

⁴ M̄cr̄^aeuq⁰

⁵ M̄jt^ap⁰

⁶ T̄>rcf⁰

vctj cvqo . o gtv o kpf gp per qp ngm 2pp2ngo p{qre r2p| v
 ngpgo 2u c| qnev pgo ngj ggo o wpc p2m⁰ C| 2tv c| v⁴/
 x2pv 2p pgo vctj cvqo o gi 0 O qpf c pgnk c eu^a u^a t^a < 2u o kg
 ngm c| c p{qre r2p| A Mk o qpf c pgnk o gtv gu| vpf p³
 o kpf gp per qp vctv| qo cf pgo n² v r2p| v. nk i { gto gm²/
 i go dgp n³ eu³ p x³ vgo xqn⁰ | u cf qm ngw v n³ eu³ p 2u ngw v
 g² gu| vgm 2u ngw v gm³ v³ n⁰ O qpf c c| eu^a u^a t^a p² nk
 o qpf cf o gi 2ppgngo . p{kk^a pcddep. gl r2p| gmpgm 2tvn/
 o 2v⁰ O qpf c Hmwu| nqx^a eu < wco jcmi cuu o gi gpi go gw⁰
 M² v r2p| v o kpf gp per qp vctv| qo cf pgo 2p cv^a o pcm
 o gtv o knqtq 2p xq² m nkuf gf 2p cv^a o 2ptg^a o o kpf gp
 per qp n² v r2p| v n³ v⁰ | u o c c| 2p cv^a o p{qo qt^a i dcp
 2u u| gi 2p{u² i dgp xgwgw⁰ C| 2tv qne cf lc. jqi { 2p ku ng/
 p{2t^a n lgm u| gi 2p{u² i 2dgp tclv 2u c| 2tv o kpf gp per qp n² v
 r2p| v cf qm pgn⁰ Cppcm w³ pc n² v r2p| v guo 2i cf qm 2p
 hco pcm n³ eu³ p. nk ko o^a t vpw^a i jgn{tg o gi { 2p. cpcn¹
 qn² tv jqi { j c 2p p{qo qt^a i dcp 2u u| gi 2p{u² i dgp gup/
 fgo . o kv c| 2p cv^a o . 2ppgngo c| n² v r2p| v o gi cf lc.
 o kn² rr gp cf vco 2p cv^a o pcn⁰ M² v r2p| v ngi { ki ngp o kpf gp
 per qp g² gu| vgm 2p h² gu² i go tg ng² p⁰ O gtv pgn⁰ o kpf gp/
 nqtq gngpgo twi » f q | » 2u gngpgo l^a t » 2u u| cdef cnetcv⁰
 | u gl jqtqo 2tv cnet o kv 2p pgnk cf lcn⁰ | u g² gu| vgo 0
 | u o 2i n² v r2p| v 2p o ci co tc ku m ngm o kpf gp per qp
 2vntg 2u xgpt² ntg⁰ | u gpp² n m³ vgo dgp. gi { per qp gu pgo
 ngj gvn⁰ J cpgo u| kpgwgp o wpn¹ muf pgo ngm nk¹ n gl
 hgn n o qpf qw r2p| gngv o gi ngm ngpgo 0 C| 2tv ko o^a t eu^a u^a t
 jcm¹ wcf c| 2p per qp n² pv xcⁿ o wpn¹ muf^a uqo cv. cf l ki c|
 v² ng² v⁰ O qpf c c| eu^a u^a t < Hmwu| gr¹ i d³ v³ eugp hrgn² n
 o gpl gn 2u o^a wⁿ hji xc o kpf gp nqtq o wpn¹ muf l^a n⁰ Gppgm
 w³ pc j co ct o gi j cr c eu^a u^a t 2u Hmwu| nqx^a eu dgreugu/
 u² i g² tv o kpf gpgm² n x^a ncu w² m eu^a u^a tt^a . nk pci { dgreugu/
 u² i i gnd¹ xcr c| eu^a u^a tu^a i qv⁰

VT: UXGTKVCVGU
 | TUGM-IXf TKM FGZ

Xcr c gi { p² o kpgo nk^a n{ t > o clem n³ v³ v. nkpgm Cuo q/
 f gwu xcr c p² xg. nk k{ v³ x² p{v u| v³ | g. jqi { xcrcnk pgnk

³ Gu| vpf p³ n⁰

⁴ Kctc⁰

j cñ itc xcn» go dgtgm n³4 ãn cñ to gn{ pci { x² vñ³4 cxi {
 d⁴p v gw xqpc ku. jc j^a tqo ki c| ev qn{ cv o qpf j cvpc. nk² n
 ki c| cddcm pgo rgrvj gvp² pgm j^a v j cñ nwn o ci^a v o gi o gpv
 j gvp² lgn⁰ V³4 v² pgm c² tv. j qi { c| nk^a pcm gi { xk² | g c|
 nk^a v ki gp o gi d^a pvc gi { pci { x² vñ³4 xgn nk² tv j cñ v² tf go k²
 c| nk^a nwn⁰ | u o knqtqp c| ¶² rgtg j q| cvqw xqpc. o qpf c c|
 nk^a n⁰ pgnk < u gtgm gu dca^a vqo. wf qf / g c| v³4 x² p { v o gn{ gv
² p u l³4 | gwgo. j qi { xcrcnk j^a tqo ki c| ev qn{ cv o qpf j cv
 j qi { nk² gp ugo o k j co ku^a i plpeugp. vj^a v o gi o gpvj gk
 o ci^a v j cñ nwn⁰ Cppcm qn² tv v² i { grgi gv c| v³4 x² p { pgm
 jc cnetu | o gi u| cdcf w³4 Mk o qpf c < gtgo guv dgvr² gu² go
 eucnj qi { j cñ nwn o ci co ev o gi o gpvj guugo⁰ Mkpgm o qpf c
 c| nk^a n⁰ < o qpf gn c|² tv c| ki c| u^a i qncv⁰ O qpf c c| xk² | <
 wco nk^a n⁰. gl c| gnu ki c| u^a i. j qi { o kpf² p i { gto gm² /
 i go vñ hqi xc i qpqu go dgt xqnc⁰

Gl v j cm^a p c nk^a n⁰. o qpf c c| n³4 p { ãñ m» ncmk ki c| g
 gl. j qi { o kpf nk² up { u² i vñ hqi xc i qpqu go dgt xqnc^a Gu
 o qpf^a pcm c| n³4 p { ãñ m» ncmk wco. jc i qpqu go dgt pgo
 xqn xqpc. gl j cñ itc xcn» fqñ itc pgo lwqw xqpc⁰ O qpf c
 c| nk^a n⁰ < o qpf f gn c| o^a uqf km ki c| u^a i qv ku⁰ Mk o qpf c <
 wco. c| o^a uqf km ki c| u^a i gl < j qi {² p pgn⁰ ki gp ngn⁰ gv
 rgp. j qi {² p kn⁰ o » fqp kw^a mqn⁰ Mkpgm o qpf c c| d⁴ | >>
 dk qp{. c| v l» n j ku⁰ ãn⁰ O qpf f o gi c|² tv c| jcto cf km
 ki c| ev ku⁰ Mk o qpf c. gl c| jcto cf km ki c| u^a i < j qi { jc
 gl ãxcn o gi u| cdcf wj cvqm kppgp vqxc. ujc cnetcvqo u| g/
² pv o gi kf g pgo lAxgn⁰ Mkpgm o qpf c c| nk^a n⁰ < dk qp{. dk
 | qp{ o qpf qo pgn² f. j qi { pci { d³4 r² eugp o ci cf cv o gi u| cdc/
 f ¶ ucf. c|² tvo gpl gnd² ngu² i i gn⁰ | u gl gpn² r gp o gi u| cdcf wrc⁰

CFJ QTVCVIQ O WNKGTWO³

376: ô nãÄn

O cuxcp gi { kãÄo gi j^a | cuqf qw
—lqppcp j q| ve u|² r j^a | cu⁹ tu^a v
Mkwi { cp u| gtgv. o kp^v³pp³po ci^a v=
Pci { u|² r dgu|² ff gn vgv¶i { qmçvc<

Cuu| qp{ #u|² r v⁹ tuc^o ² u u|² r xk^a i qo .
J c Kvgp o kpngvngwgp ³/4u| gd¶t=
Vcp¶mçm^v i ³/4. nã trgm j qi { pg d^a plcf 0

J c o knqt cuu| qp{ #v⁹ i ³/4 u | »n¶mçm
O qpf l cnuqt gpi go ² f ³/4i wcf pcm=
O gtvj c pgo o qpf cu| ² f ³/4i wcf pcm<
Kkcm nkmi^a v^a m eucmo gi euÄtqpcm
V² i ³/4 gvo qpf pcmu| »ij c v wcp v⁹ t upcm 0

O knqt xgpf² i ³/4nj^a | wpij q| l³ppgm
Xki cuu^a i qvo wcuu l^a o dqt xgpf² i pgm=
O gtvj c d^a pcv^a vi^a v^a mu| ¶k^gf pgn<
Kkcm nkmi^a v^a m eucmo gi euÄtqpcm
V² i ³/4 gvo qpf pcmc| ² ddÄnni^a u| Änp gm 0

J c o knqt ngwgp xgpf² i i² j ¶pcm
P { gnk^gf ² u c u|^a f nã tf xg u| »rlcpm=
O gtvj c mngwgp uqncveu⁹ euqi pcm<
Kkcm nkmi^a v^a m eucmo gi euÄtqpcm
V² i ³/4 gvo qpf pcmeu⁹ euqi » u| clm^v pcm 0

³Cuu| qp{ qmlp^v ug0

O knqt gi { Àq̃p eucmngwgp o gi { Āpm
 Gr̃ vgo pg l^a tl cmqt. j qi { o gi { Āpm=
 O gtvj c gr̃ vgo l^a tcpfcul ô l̃ n ñ
 K̃kcm nkmi^ñ v^a m eucmo gi euÀh̃q̃pcm
 V²i ¾ gvo qpf pcm̃ncdq̃rc xg/l²tpgñ

J c o knqt ngwgp gi { Àq̃p o gi { Āpm
 Vg r cñ uqf cvj^a vco tc pg cff=
 O gtvj c r cñ uqf j^a vco tc cf qf <
 K̃kcm nkmi^ñ v^a m eucmo gi euÀh̃q̃pcm
 Gpi ¾ gvo qpf pcm̃cuu| qp { u| co ct^a pcñ

J c o knqt ñk̃g̃ṽ/anj^a | w̃nj q| l³/ppgm
 Vg o gi pg h̃gr̃nl c| ñk̃g̃ṽ/np̃gm=
 O gtvj c o gi h̃gr̃nu| c| ñk̃g̃ṽ/np̃gm<
 K̃kcm nkmi^ñ v^a m eucmo gi euÀh̃q̃pcm
 V²i ¾ gvo qpf pcm̃c| Uo qp d̃f̃ »pcñ

J c o knqt twj^a vp²ñ¾ xgj gv m
 Twj c ṽg r̃gf o gi ṽku| ¾ngu²m=
 O gtvj c c| twj^a mt»r̃cf r̃gukt pcm̃<
 K̃kcm nkmi^ñ v^a m eucmo gi euÀh̃q̃pcm
 V²i ¾ gvo qpf pcm̃r̃qj^a p ñ¾/ṽt qm̃ñ pcñ

J c c| r̃k̃etc gr̃/ñk̃r̃ r̃ gpf gu| .
 Uq̃nevpg ñu²n²u pg ṽgt²eugr̃l=
 O gtvj c o w̃ṽu| ²u uq̃neṽgt²eugñl <
 K̃kcm nkmi^ñ v^a m eucmo gi euÀh̃q̃pcm
 V²i ¾ gvo qpf pcm̃f̃²n o gũgt pgñ

M̃gx²u d̃À^a p̃nev. ngx²u r̃ku| ṽp̃ngv.
 Gnpg ṽñq| q̃rlcf c| o ko ctj^a p̃nev=
 J c gn²ñq| r̃qf c| o ko ctj^a p̃nev<
 K̃kcm nkmi^ñ v^a m eucmo gi euÀh̃q̃pcm
 V²i ¾ gvo qpf pcm̃l̃gp̃ng̃wgp̃ nc upcñ

C| d̃q̃tvj^a | w̃p̃nd̃»n^a o d^a ṽqt ki { cf.
 Fg c| ñq̃teuqo cṽg pg i { cm̃tq̃rlcf =
 J c i { cm̃t̃r̃ pf qf ṽg c| ñq̃teuqo cṽ<
 K̃kcm nkmi^ñ v^a m eucmo gi euÀh̃q̃pcm
 V²i ¾ gvo qpf pcm̃l̃gr̃̃u d̃qt̃euk̃u|^a tpcñ

³ M̃dq̃rc<ñ. ñc̃pec0

⁴ C l̃tl²p w̃cm̃qf » p euÀh̃pgxg0

Cuu| qp{ u|²r v̂ tucō #̂o o quvo gi o qpf qo .
 Vg d pgl̂ gvgnpgo u| gpxgf o =
 J c d pgl̂ gv²p gnu| gpxgf go <
Klcm nkm̂ n̂ v̂^am eucm o gi euÂĥq̂pĉm
 Gpi ³/₄ gvo qpf pcmm̂ vci gd gi { *k̂p̂gn̂θ*

C| o kj^a | ŵpn̂ev̂g v̂ku| v̂^a p v̂ctv̂cf .
 M̂euk̂p̂ egn̂ p̂n̂evi { cnt̂cp o gi û³/₄ ³/₄f =
 O gtv̂ j c j^a | ŵpn̂ev̂ tŵup{^a v̂n v̂ctv̂qf <
Klcm nkm̂ n̂ v̂^am eucmo gi euÂĥq̂pĉm
 V²i ³/₄ gvo qpf pcmt̂ ŵup{c eŵpf q̂t^a pĉn̂θ

J c o gi ĥq̂i cf qf . o ci co **¶**²tgo .
 Octj^a o ²ur²p| go o k̂pf v̂k̂f n̂²u| gp.
 Vg n̂gu| ²pp²n̂³/₄ pci { v̂ku| v̂³/₄û²i Ñ̂o =
Klcm nkm̂ n̂ v̂^am o gi pgo euÂĥq̂pĉm
 Gpi ³/₄ gvo qpf pĉmp̂ci { *d̂q̂if̂ q̂i go d³/₄p̂gn̂θ*

J c pgo ĥq̂i cf qf < **K̂v̂gp** pg o gpŵ³/₄p.
 Dqwŵn r^a r̂^a ŵnc| v̂g j^a v̂cf cv̂.
 Rk̂t̂qû q̂t̂^a f cv̂u| ²i { ³/₄p̂xĉm̂ uwŵn
 J^a v̂cf pĉmĵ quu|^a v̂u|²r uwŵ^a t r^a r̂^a ŵŵθ

G| v̂cp»û^a i qv̂v̂cx̂ck̂n̂k̂r̂gn̂θ
 U| co qu xk̂²pgmo ci cu c| r̂ctv̂lĉ0
 Ĉm̂q̂t̂ ĥglu|² x̂gn̂x^a i v̂^amc| xk̂²ĝv̂0
 C| ²pgnu| ³/₄| vo qpf l̂^aml» go d³/₄p̂gn̂θ

³ Ci gd<u| kn̂q| »f». i { ĉr̂³| n̂q̂f » u| »0

⁴ Eŵpf q̂tc<t̂k̂pi {/t̂q̂pi {0

J GNVCKI f URf T

3742ô 3797

GI [GU\ X| TT N. T~ Mf T~ NGUHCTMCUT~ N

Gi { u|²r gu|x²t l^at xcrc c h dgp gi { gtf o gngw²u
qw gu| km xcrc cddep0 L xg gi { t>ne j q| |^alc²u pci { ngx²/
n(gp o gi ng| f² c| gu|x²tv n²tf g| pk o qpf x^ap< nleuqf c xci {
vGA Hgrng c| gu|x²t< gi { u| gi²p{. qmcrep^anev xci {qn0
Oqpf c c t>ne< pgo c| v n²tf go. jcpgo nleuqf c xqiv c|
cr^afA Hgrng c| gu|x²t< gi { u| gi²p{ n> xcrc c| cr^ao 0 Oqpf c
c t>ne< o²i ugo c| v n²tf g| go. jcpgo nk pgxgf A Hgrng
c| gu|x²t< pgo w²f qo pgxgo gv. o gtv ki gp nku eukn> xqico.
j qi { o kpf cr^ao. u ¶ { *o kpf + cp{^ao o gi j qn0 Fg j qi {
hgrgf u²i dgp pgo lwpc c| ²p pgxgo. c| ²p u| gi k² cr^ao c
den wqn> n²dqo pcm c vcr^atc kvc o gi pgxgo gv. qw o gi qn/
xcuj cvqf. j c ki gp n²x^aqf0 Fg c t>ne o gi²t² c| gu|x²tpgm
texcu| u²i^av²u cnetv^av²u pgo cnet^a c| qrxcu^auv o gi n²u²t/
vpl0 Xcrc r gfk c t>n²pcm gi { gngpu²i g. gi { hctneu. o gn(gv
civqo dcp ki gp i { n²4k xcrc0 Gno²pg g| qn²tv c| gtf dg²u
o gi n²t²u² c hctneu0 | u vcr^ark^ap c| v. o qpf c< u|²i {gp c v
f qn qf0 Kw hgm| gn c| ^atp{²ndcp. ²u Ai { ²j g| gn j qi { wi {cp
repvtp^au³ c j cucf dg²0 Co qw c| gtf u|²ngp gi { ki gp u|²r
ngxgt. i {gto gmf kf gu|x²t l^at. c| v n²pp{gp o gi hqj cvp^af
²u Ai {. o kpv gi { o gp{gm dgp renj cvp^an c| | cr0 Fg kpn²dd
ngf xgrgf v g c| ^atp{²nqv²u c| cnw^au0 Oqpf c c hctneu<
j qn l^atA Oqpf c c t>ne< lgtg. o gi o wcvqo 0 | u o kf p v²xqn
o gi o wcvc xqpc pgnk c| gu|x²tv. qf culevg c hctneu²u o gi/
n²tf² c| gu|x²t< nleuqf c xci {A Hgrng c| gu|x²t< gi { u| g/
i²p{. qmcrep^anev xci {qn0 Oqpf c c hctneu< pgo c| v n²t/

³ C| ²j u²i v no gi x²npp{qf qwc d tg ku0

fgo . jcpgo nleuqfc xqrv cr^afA Hengrg c| gul^{x2}t< gi { n
xqrv c| cr^ao 0 Oqpf c c hctneu< pgo c|v cnetqo . jcpgo
nk pgxgf vgp²ngfA Hengrg c| gul^{x2}t<²p pgo wfqo pgxgo gv
o gtv ki gp nku eukn» xqnc o . jqi { o gi j qrv c| cr^ao 0 Fg j qi {
hengfu²i dg pg lwpc c| ²p pgxgo . c| wqnv» dcm¹dqo pcm c
vcr^atc ¶vc o gi c| ²p cr^ao c| pgxgo gv 0 J c o gi cnetqf
qrxcupk o gi ngj gv 0 C hctneu pgo x²x² gul²dg c| gul^{x2}tpgm
ul^apf²n^av jcpgo qfco ²pg . jqi { o gi vku ¶vc^a c| gul^{x2}t/
pgm c r^dv ²u jqi { o gi qrxcup^a c pgx² 0 Fg c| gul^{x2}t Ài {
tÀ^a j qo nqmc c hctneu . jqi { o kpf c n¹v ul go g nk³4 gf g
²u vi { cpqwc p gr¹lwrc 0 Gi { p²o kpg o Æ dg.³ o knqtq o gi /
Àlwnv xqpc . hengrg ngj²n¹ jqi { gro gppg 0 Vgj^av qw^am c
t»ne ²u ki gp nœci x^ap . o qpf c< gtgf l gn ul²i { gp . gro gi gw
pci { vku vgu²i i gr 0 —i { ngm ci i gdp gm dceeci tkwu^a v³4gf
o ci cf cv ¶v^auv cnetul qrxcupk o ci c ugo vg . ugo gi²ul pgo /
| gygf uqj c gi { dg v pgo vcpqm 0 ~ j . lcl# G ul²i { gp 0 Vgv ul km
jqi { j qo nqmf j q| Æ³4v²m c| ²te^v d¹v 0 | u c hctneu gr ktqp/
nqf²mqpp²i 0

³ K o Àkc 0

⁴ Hgn³r^aul nqfqv 0

P | XVGNGP

D| NC MKTf N| | UDCPM NGf P| C
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J cm^a vqmo gi o qucp. t[¶] kf qni qvo qpf qm
C| D² r^a nk^a n{ pcmkf gk^Ànu| »rqm
| u c| x² p Dcpm»pcmr^a p{^a t^Ànu| »rqm
Mkvgo r[¶] ng| g^v tvgn vgn^dgp cf qn0

Rctcpeuqrvc r[¶]p c| D² r^a nk^a n{ pcm
| u w[¶] pc xcⁿ uqmh /h³vtcncm
U^a | ² u j gxgpj ² vu| gpvgr^vxk[¶] gmpgm
J qi { mj co ctu^a i i cnvf xctj q| i { ³4p² pgn0

G| vcf^a mwf^v tc c| xk² | Dcpm»pcm
Mkx²pu² i g o kwo gi pgj gl[¶] nvxc^r.
H[¶]hk^À ci | cdc pgn^g pgo xc^r.
Mkvm[¶]f j gvgwxqpc nk^a n{ wf xct^a dc0

M^gpe j clcf qp u² r[¶] p{ c pgn^g xc^r.
O gn{ n³4 ³4vkh^lcdkmc rgi u| gddk^mxc^r.
F g l^a t^a uc pgn^lh^lko »f tc xc^r.
H^grg^g cv^l pcm gl[¶] vo qpf vc xc^r<

ì | p u| gtgr^o gu cv^l a o dqtqx^a ncuf j elco qv
J wu^a to »f tc o qucp eul^p a ncuf tkj^a o qv
| u² pxgr^o cf lcf v^g l» r^xck^f qv
| uxgr^o d^qeu^a u^ucf uqml» u| qn^a k^f qv0

! p yg hkf r²x²p<Dwf^a tc hgm gi { gm
 Mkt^a n{ j q| wf xctdcp j gn{ gwgf hgm gi { gm
 O kpf gp vku| vgu² i gv² p qwo gi lgrgpvgm
 O kvkngmhkf pcm² p qwwi { cp vgu| gntè

J co ct hgm² u|² v² r^a p{^a vc| cv|lc.
 Dcpm» grgtgu| v² nkt^a n{ wf xct^a dc=
 O knqt lwqwxqpc nkt^a n{ wf xct^a dc.
 D²rc nkt^a n{ r² v² . pgnkg ki { u| »rc<

ì O gn{ ki gp klÀxci { . nkp pci { euqf^a o xci { qp.
 Vg u|² r vgn² p² ugf r^a p{ o »f tc xci { qp=
 Vg l^a t^a uqf pgn² h² tk o »f tc xci { qp.
 J qi {² p o gi² tvj guugo . cmctcvqo xci { qp0

F g j qppcvxcn» xci {² u nkeuqf c xci { vgA
 ! ppgngo o gi o qpf lcf² u o gi lgrgpwgf vg.
 O gtvj c r^a p{ xqp^a n ki gp u| gtgv² rgm
 Dwf^a p^a n o kpf gpgmp² nkpñ dd dgeuAp² rgnè

Mkt^a n{ r ctcpeuqrlc c| h /h wtcnpcm
 J gwgpj² v^{3/4} xgpgi { u| gpvgnv² xk² | gmpgm
 Dwf c r kce^a tc j co ct nko gpp² pgm
 Qtu»v. tqmñ vo kpf xgpp² m xgi { gpgn0

—i { o qpf <ì klw² | j qi { j c r^a p{ r² u| gp
 Qtu»tc. tqmñ tc vgnkpv² kr² u| gp=
 F g j c h² lkrgu| gp<o gmgwg gm gi { gp
 ! u h² p{ gu hgi { xgttg pgnku| go g rgu| gpè

J gwgpj² v^{3/4} xgpgi { xk² | gmo² p² pgm
 Dwf c r kce^a tc o wcvpk^{3/4} x² pgm=
 Qtu»tc. tqmñ tc pgo cmctc p² | pk
 J cpgo c u|² r hkgu hgi { xgttg u| go r² rko

klÀxk² | hgnqg gi { u| ctxcu n² | ¶|cv.
 C| kf gi dgp xgv pci { . u|² r j quu| Ap{ kvv=
 J co ct^a ncvkqpc n² vÀllenc| p{ kvv=
 G| vo xgng xcrc xk² | gmñ w³ tc0

Kuo² i rpp o qpf^a pcmxk² | gmo kpf p{^a lcp<
 ì Lgt. n l[~]pmc| ekj q| . |^a nji² tvo kpf p{^a lcp⁰
 Xk² | gmc| ekj g| r² k² pgmo kpf p{^a lcp.
 3/4 n² 4 3/4 r² mc| ekvugpnkpgo vcp^a r^a p0

Ngj wqnu| qt n xg x² p Dcpm[~] r^a p{c.
 C| e² nn² 4 3/4² dgp gi { gpguv v² r² r.
 .. x² n p o kpf l^a t^a uvxk² | gm|^a nji lc.
 O qpf^a pcmxk² | gmo kpi {^a t^a uvc| qo dc<

ì Vg xk² | k² hkw lgt xguu[~]pmo quvn² k² gv⁰
 O kpf p{^a lcp xk² | gmgr² gw² mc n² k² gv=
 Ngj wqnu| qt xgv² x² p Dcpm[~] r^a p{c=
 Xk² | gmp² n² vx^a dd gi { ukpi p{ kxgnj clvc0

C| j gv² gpj² vxk² | 3/4 xgp gi { o ci^a xcn
 O qpf^a pcmo kpf l^a t^a uv< ì Lgt vgm h² uupmr^a n^a v² ð
 O kpi {^a t^a uvo gi h² w² m xk² | gmc| r^a n^a v.
 Wqnu| qt kpf vrc< gr² c| r^a n^a v0

J cto cf u| qt h² r² x² g c| xk² | gm|^a nji l^a v<
 C| Dcpm[~] r^a p{c² | { lgrgp² o ci^a v0
 Xk² | gmo qpf^a pcmkuo² i rpp c| k² hkwpcn<
 Lgt An pmo kpf p{^a lcp o kc| dqt krcpnc⁰

Xk² | gmhglgn² pvcu| vrc ã r² pgm
 X² p Dcpm[~] r^a p{^a vn² 4 3/4 n² r² k² gv² pgm=
 C| Dcej wu kvppgm^a r² q| pkn² | f gpgm
 O kpf hglgn² pvj co ct gr² u| gi gr² pgn0

X² p Dcpm[~] r^a p{c o² i l>| cpqp xcrc.
 H² r² qp gi { u² r² m² v^a n² dgp l> dqt xcrc
 Gu c xk² | gntg c| vn² 4 3/4 v² xcrc.
 M² n^a | gi² u² i gk² vc| vo gi kvc xcrc0

O kpf p{^a lcp xk² | gmnk^a n^a | j q| o² p² pgm
 H² n² i gu nk^a n^a | pcm² | { gp h² r² r² pgm<
 ì P go r^a p{c | xk² | . j cpgo n⁰ h² c.
 o gtvo k² pngvo gi i { | g c| x² p Dcpm[~] h² c0

C| e^{ñj} g| ñ⁴udgp o k^{ñgvo} gi i { | g.
 C r^añ{chw³udcp. cddcp ku o gi i { | g.
 C| m j c l^ñudcp ku h^{rgwg} o gi i { | g.
 C| dqtkcndcp ku o k^{ñgvo} gi p{gtg^ñ

G| vj cm^ap c nk^añ{. ki gp euqf^a mu|²m
 P ci { euwf cv² vñ² p c| kñ^axk^ñ pgn⁰
 X²i tg o ci^adcp uqñevi qpf qmuf²m
 Dcpm^ñ ñ^ap{^apcmj qi { ³/₄o gi o qpf cv²m⁰

X²i tg o qpf c nk^añ{ o k^ñ c| xk^ñ gmpgm[<]
 ì C| h³/₄f dgp o gpl^ñpmo k^ñ p{^alcp xk^ñ gn[#]
 H³/₄f dgp ³/₄f pgmo k^ñ p{^alcp xk^ñ gm
 H³/₄ñ²i gu nk^añ{ ku qwx^{cnc} ñ³/₄³/₄gn⁰

H³/₄f gpkpgo cñt x²p Dcpm^ñ ñ^ap{c=
 C| h³/₄f qdgp nk^añ{ qw^ñ ki 5)gp u|^ñ<
 ì O^k tvpgo h³/₄f gn^{x2}p Dcpm^ñ ñ^ap{c^ñ
 H³/₄ñ² pkgi { ^ñwx² ñgm^r ctepuqñc⁰

H^{rgng} nk^añ{ pcm^{x2}p Dcpm^ñ ñ^ap{c<
 ì Vg j cv^m cu nk^añ{#euqf^a mu| qo tclv.
 P g vñ² p pgo wf qf² p ngugt d^ño cv<
 C| ²p x²p cv^a o tc xcn^ñ pci { i qpf qo cv^ñ

m ñ² vqf ñg| go dgp cv^a o pcm^{rgxgr²v}.
 M^{kdgp} klc pgn^o dci { ngugt u²i²v<
 ì V³/₄³/₄ñ²m cv³ tqmo k^ñ gp x^a tcl^o qv
 ì i gwgm tcdqñ^a mo k^ñ gp vctv^o ^ap{ko qv^ñ

G| vj cm^ap c nk^añ{ j co ct h^{gn}| ³/₄ñ²m
 J cf x^a p hgt³/₄² u² vtclv. go gm^{gf}²m
 H^{gpul} ^ñx^{cngl} vo qpf lc Dcpm^ñ ñ^ap{^apcm
 C| xk²| gmgn w. ³/₄» u| qñ^a p^a pcm[<]

ì U^{guu}. h^{co} . j c| c. qñc^m c| f h³/₄f gf gv.
 Vg u|²r x^a tcl^f qv. v^g u|²r ³/₄³/₄ñ²i gf gv
 ì u c| v^g cv^a f pcm^v r ñ² rlc^f x² pu²i²v
 ì u gpi gf gm^o gu^ñi { . j cni cu^{cf} dgu|²f²v^ñ

G| vl» p^gx²p x²xg n^ka n{ hgn²i²v n
 U| ²r cl³ pf kn^qncvx p n^ka n{ khgn²i v n-
 C| Dcpm» n^ga p{ c j co ct gm⁷ul³/g.
 C| ul qnⁱ a kxeno kpi {^at^a uvgtgf²0

O kn^qt dgu| ³/4| fg ul²r n⁷/pp{ i^an^adcp
 C| Fwpc xk²pgmcn³hn^q{^au^adcp.
 J co ct n^er euqrlc n^qo qn^e³f qm^ap{^av.
 M^ka n{ pcmo wcv^a ul²r n⁷vcm^al^av0

C| Dcpm» n^ga p{ c g| vo qpf vc n^ka n{ pcm-
 ì Vgtgo pgm^gn^ka n{ vg dktqf cm cf dcp.
 C| vg ul²r ngt vk dgp kn{ gp f^ta i c cm^am
 O k^pvc| ²p ngtvgo dgp. nkmg n wgf xqncmA

Dwf^atc j q| wco xqnc| n⁷vt^ai c cm^av.
 Fg pgo wfvcf. n^ka n{. o gi ul gi pkc| cm^av#
 Hgn^q »xcn^ka nc. w^apc k^pfk.
 O k^pfg p²r²pgmuqncu^ai^avk^pk^a#

ì W⁷pc. w⁷pc. xk²| gm# w⁷pc#
 P ci { ul²r hn^q » uclm³p ulgvpgmw^apc0
 ì ³/₄³/mhgn²i go rgu #è ò n^ka n{ c| vo qpf lc.
 ì V^lpgmgmhlgpn⁷pvn^ka n{ p² cuu| qp{ vqn^è

L» Fwpc o gpvk dgp qn{ ugdguvo gi {²p xcr.
 O k^pvc| n⁷vj cvcvcp ugdgu ul²nhw⁷uc.
 D⁷n⁷xgncv{¹a j q|. x²p Dcpm⁷j q|. lwc.
 O k^pfg p¹a^ta^uv pgnko gi o qpf vc0

C| n^ga p{^av^ÀnDcpm» g| vj qi { j cm³.
 Hgn²i gu n^ka n{ pcmo k^pvwf xctn^qwxqpc<
 P ci { hgpp j cj q⁷xncn| qp p^gxgvxcr.
 C| n^ga p{^apcmkⁱ gp t³/₄kxcr0

J qtx^akwno ci {cttc pgo t²i gp hqtf²v⁷m
 Ugdgu X^ai o gpvk dgp Ugo r vg x^atqu^adcp.
 Tgpfg⁷ gi { kh⁷wi qpf qncv^adcp.
 C| K⁷gpj g| xcn» ul gtgm gvo wcv^ap0

³ *nco wnc+/ fco cu| v

O knqtqp lo^a pcmgpp{kgu vgpf dgp.
 C| g| g^{3/4}u^a | dcp²uj gwgp gu| vgpf dgp.
 Mkuu| qp{ j cx^a pcmrgi gnu j gkdeg.
 Fleu²tygu² mkggp c| o ci quo gp{ gnldgp0

UCNCOQP : UOCTMCNH

(00) Xcxc r g f k i O c t n e r h t³/₄kf^a n e r c v^À g o d g t. k i g p
v g o² t f g m² u r q t q j q u. h e l g p g n k p c i { x c r c. u l² r g u j q o m n e.
r k t q u² u u³/₄ i g u q t e^a l c. h^À r g k h g r g w g u l t³/₄ m² u g r c i f /
h^À i g p g m x c r c. u l g o g k p c i { q m² u e u k^a u q m c l e n e k k u p c i { q m
v g o² t f g n g m h g r g w g o k p v g i { n p c m u l c n i n e t^À v² u k i g p
k r c v q u. o k p v c n g e u n i p g m n g l g k t³/₄ k f g m² u h g r g w g v g o² t f g n g m
x c r i p e m c l q t t e r g p k i o k p v g i { u u w d q t n e v g o² t f g m
u l g r n u² u j q t i c u. o k p v c n u p {^a p c n 0 f d t^a | e v l c p g n k q n { c p
o k p v c u l c o^a t p e m j e l c q n { c p o k p v c l d e n p e m c u l t g² u
u c t l e k k i g p r e t c u l v m x c r i p e m d t g r g p k i r g p t^À v² u k i g p u l g r /
n u² u h g r g w g o k p v c u^a t = t w j^a l c m v t c² u e u c m c l d e i h e p² n k i
² t x c r c. p e f t^a i c u l² n g n n k² t l g f g w x c r c² u o k p f g p³/₄ g k
² m g r p p g m x c r i p e n 0

Ucwo qp < O k v i q p f q m u f q n A

O c t n e r h < C t t > n i q p f q m u f q o . j q i { p c i { q d d c v g t o² /
u l g v c l u l q n i u p^a r 0

Ucwo qp < J c o g i p g o d k q p { q j c v q f . o g i j c n l 0

O c t n e r h < X^a t l g i { n g x g u g v² u o k p g n g n w g g r c n w p^a n
o g i o w e v q o c l v k u v p² n g f 0

O k n q t k o o^a t c p e r g r p { w i q f v x q p c² u c x c e u q t^a p e m
k f g l g g m³/₄ g n i g v w x q p c. c n k^a n l n g^À r g c l x c e u q t^a j q l p c i {
n i u l^À r g w g n o k p f c l w f x c t p² r² x g n g i { g v g o d g 0 | u O c t n e r h
^À x² p c v³/₄ d u l q n i^a m e n j^a t q o g i g t g n g v t g n g u l v g w x c r c
c M³/₄ v³/₄ u w l^a d c 0 O g t v x c r c c l n k^a n l w f x c t^a d e p g i { o c e u n e.
n k v^À i { u l q m c w e m x c r c. j q i { o k p f g p x c e u q t^a p e m k f g l² p

i {gtv^av vctvpc c| nkt^an{ gn w²u o kpf c| wf xctp²rg gn w^anx^ap c n²v wqn» r²d^ap²u c| ngwglkxgn c xk²i qv vctw^ap0
 O knqt c|²tv ko o^at o kpf p{^alcp xceut^ancpcm xqpc. Oct/
 nrh nkdqeu^avc gi {gv c| gi gtgm n²4 An nk^aj qi { n²vqw xqpc
 c o ceun^e ²u w²pc cnetv xqpc kpf wpk c nkt^an{ o gi hgp {g/
 i gv² ²u pgo o q| f w^a nk j gn²d n=c o^a ukmen ku j cuqprevu/
 n²rrgp n p c f qn²i 0 J cto cf kn²v ku Octnerh nkdqeu^avc. o gn{gv
 j qi { o gi n²vc c o ceun^e. vx^add pgo vctv^acv^a c i {gtv^av
 j cpgo gn²v² ²u c| gi²t w²p hwco²m²u o gi hq^a hww²dcp0

G|v r²w^ap Octnerh o qpf c c nkt^an{pcn< K² nkt^an{.
 vg gn wgf o gi dk qp {^acpk j qi { pci {qdd c v²to²u| gv c
 u| qn²up^an²u v²p^aup^a r0

Uc²ro qp hgrg< ||²vgm gn vgv²u xgu²vgm nk u| go go
 gn r0| u j c v²/4du| 3/4 kf g l³/k gpf. j wu| ^au^a vqmtg^a c| ²p gdgko gv
 u| ci i u^a mgr#

Octnerh u| »r o qpf c< O quv^a w^aqo dk qpp {cn²u p {k²
 x^ap o qpf j cvqo. j qi { qw xci {qp i qpqu| wf xct. cj qn p²keugp
 ki c| u^a i 0

O knqt c|²tv nk | v²m xqpc c| wf xctd>n Octnerhqv
 ng| fg o ci^adcp gm²rrgp dgu²ni gvp< Ugo ^ao ^ao
 Ai { c| d³/4eu Uc²ro qppem pgo r²u| gp p {wi qf cm c Octnerh/
 »n< o gi n²vlc0 O^auqf per c|²tv hgmgn²p^a i {^ad>n i qpf qn/
 nuf pk nu| fgw o kn²rrgp o gj vgp c nkt^an{ wf xct^adc. Ai {
 j qi { c nkt^an{ gdgk vgv o gi pg u| ci i cv^ama | u gm²pg.
 x p gi { grxgp p {w^acv²u tw^alc cn² vnet^a. ²u Ai { vgtg
 c nkt^an{ wf xct^adc0 Mkv o knqt c u| qn^am o gi n²wcm xqpc. c|
 gdgv t^alc j wu| k²n0 Octnerh rgpli c| p {w^acv nkdqeu^avc ²u
 o kpf l^at^auv c| gdgm Octnerhqv grj ci {^am²u c| p {An w²p
 tqj cpepcn0 Gm²rrgp Octnerh c| nkt^an{ grgldg hgm²pg0 Mk
 j qi { c| nkt^an{ o gi n²vc. o qpf c< Mk dqeu^avq w kf g dgvi gf gv#
 Octnerh hgrg< P go ngx²u texcu| u^a i # Uc²ro qp o qpf c<
 O kv | pgmc| gdgmAOctnerh hgrg<C| o kgn wgmhw0Uc²ro qp<
 O khwgn wgmAOctnerh<Co kv | pgn#

Ⓜ Octnerh u| go vgrp xkugm²u²p hqj^adqtqf xc. Uc²/
 o qp o qpf c c u| qn^anpcn< Hqj l^avq m o gi ²u cneu|^avq m hgn
 c nvtq#

O knqt c|²tv o gi hqj v^am xqpc. u| »r Octnerh c| nkt^an{/
 pcm o qpf c< Wtco nkt^an{. eum c| v p {gtj guugo o gi v rgf.
 j qi { c| o gn{ l^av²p u| gtgvpf gm ettc cneu| cpcmh²r0

Uc²ro qp o qpf c< Ngi {gp Ai { co kpv n²p {3/4i gul. o gtv
²ppgngo nku i qpf qo xci {qp ettc. o leuqf c l^atc cneu| cpcn0

Cmqt c| u| qn^amc|²tv o gi hqj^amOctnerhqv²u nkxk²mc|

x^atcut>n j qi { hgrncneu^la m²u^ancro gpx²p Lqugr j^av x³/₄i {²p.
Lw³pcm c| Qrc|j gi {pgm vgw^l2tg. o kpf Lgtlej »ki l^atx^ap
2u ugo o k l^av pgo vci^ancm nkt^ag u|gtgw xqpc o ci^av Oct/
ncihcneu|vpl0

X²i gl gvg c| nkt^an^l u|qni^ak j qi { pgo vci^ancm qn^l l^av
nk^v Octncrh ku u|gtgvgw xqpc. gl qn^lgtv xkuu|cxk²m n³/₄xg
c nkt^an^lpcm²u o gi dgu^l2ngm o kpf. j qi { o kv l^atv³pcm Oct/
ncihcru0

Ogn^l fqi qv jcm^ap c nkt^an^l. pci { euqf^amq|xc o qpf c<
Xci { cnetqm xci { pgo . fg ngf xgo gngp ku gn ngm²pp²ngo .
gl v vtwpqo 0 Gnetqo gppgnq^a2tv vgv o kpf ³/₄³/₄m³
o kpf hgru²i²xgn gi {gvgo dg0 Ogtv ko o^at o gi i { |gwvgwo
c| i qpqu^lu^ai k³n²u pgo cnetqo . j qi { v³/₄du^lgt gpi go gv
jctci tc kpf³uqp0

Cppcnq^a2tv o kpf o ci^apcm u o kpf hgru²i²pgm cf cu/
u²m²vgn kcn²u twj^a|cv o kpf gp u|Am²i gnp gm kf gl²p0 Gu
gm³r r gp Octncrh nko gpgng²m c| Uciro qp nkt^an^l ng^l2d n
2u o kpf²nki pci { d²nguu²i dgp p{wi qx²n0 Fg^ao o quv ku
p{wi u|kn0

C\ MQRCU\ Uf I PCMF KĒU TGVK

37: ; Mqrq| ux^a t0

ô T²u| rgvô

Gi { l>ngf x v̇tucuf i dcp renqo c n̄4 dgp gi { lgrgpf x nqr cul 3/4 gi go dggt n tqul 2 ngnv htci pcm< c| 2 regn m ul gtlpv c j^a | ki c| f c c| 2 tv j ¶xc o gi c nqr cul wcv j qi { ngxg/ ugdd i { gtv| c hqi { lqp= c dqtd² n| qm ugo i c| f ci qf pcm o gi c hlg w̄ p. ud0

C| 3/4 gi Æ c| 2 regn npgm c n̄4 xgvng| nulg hgriv o gi < ì P go 2 tvgo wtco . o kxgn xcwqm v̄ Æ 2 ngudgm 2 u lqd/ dcm c| nqr cul qnp^a n pqj c u t j clcvqm 2 u Æ v̄ n̄4 m xci { qp0 Vwf¹ v̄ mlg. j qi { c| j cl 2 u ul t ki gp cñ xcñ» o ctjc *npeu+ 2 u c| v̄ v̄ pgm eucm jcul qpv̄ r̄ cp p̄ gf xgu² i 2 d n 2 u xgtgl² n̄ d n r̄ ul gp. o kp̄ v ul kp̄ v c| n̄4 3/4 0 C| 2 tv c v̄ to 2 u| gv Æ { o kp̄ v jgcdpxcñ» 2 u ^a tv̄ ro cu f̄ q̄ i qv c| v̄ v̄ pgm m̄ Au t² u² tg v̄ ul ¶lc n̄0 C| go dgtgm ku. o kn̄ r r gp c| xgtgl² ngv 2 u n̄4 o 2 v c| qp/ n̄ r gp c| j clcv ku gn ul qm^a m o gv² ipk 2 u j^a ppk v m̄ An o kp̄ v jcul qpv̄ r̄ cp f̄ q̄ i qv0 J qi { rgpk̄ c ul t gl² rg p̄ gf xgu² i d n v̄ to lgp. o gi v̄ v̄ ul km cdd» n ku. j qi { c| o gn| v̄ i lc p̄ gf xgu c| go dgtpgm qv ul qn̄ qv p pk 2 u o 2 i c j qn̄ v̄ v̄ ngp ku v̄ to < o kp̄ v 2 p g| v j cm̄ qwco 2 u q̄ ixcuco ku j ku> tk^a n̄ lcp gi { k̄ tk̄ hgn n j qi { c| c n̄ eul w̄ h̄ p jcto cfpcrte pci { ul cñ^a m̄ p v xqn̄ 00 è ô ì Fg w̄ i { cp c| qn̄ qu^a i j q| 2 u gu| gu² i j gl ugo kn̄ km c j cl 2 u ul t. o kp̄ v eucm cdd» n ku o gi v̄ v̄ ul km j qi { c v̄ g/ o 2 u| gv c| qm̄ r̄ cp ^a m̄ v̄ n̄ pcm d x 2 u ut ul tv cfqw c| go dgtpgm r̄ gpk̄. o kp̄ v̄ qi { qn̄ qud gr̄ o 2 xgn d̄ ¶. lqdd t² u² tg v̄ v̄ v̄ o gl ¶gr̄ p. ul t p² m̄ An xci { qp 0 00 è ô ì C| xcf^a ul qm ku c| v v̄ tv^a m j qi { c| o gn| gdp̄ gm= o gl ¶gr̄ p c| h̄ Arg 2 u j cuc. c| qn̄ cp lqdd0 C| go dgtpgm v̄ i lck K̄ 3/4 v̄ v̄ ku. o gn| gm r̄ gi d̄ eu Æ

rvgugddgm ul t p²m^ñ xcf pem o kpv ul kpv c ul go ku nkx
 o kpf gp vci lclpmp^a nkpnⁱ dd ul gtgv^ñpm² u h^ñpm^ñ ki gp uko c⁰
 ô i P go wf qo c²tv ô hqñvc⁹ cⁱ ¾gi À ô o kv
 fleugmf vgm jclcvqmmen jc nⁱv^a vqm o gnⁱ cñ xcn» fqñi d»n
 nⁱul gp ²u o gnⁱ pci { gm²pu²i g cⁱ gul gu²i pgn⁰ Cⁱ n^ñrcul
 go dgtgm o kpf gp kf dgp dgeu^ñvgugm wf»uqm ²u d³æugm
 xqncm (0) n^ñrcul qm xqncn^κ Ctkv^ñvgu. Uqñcv^ñ. Fkⁱ gpgu.
 Elegtq. Cpcetgq. Ctkv^ñrcjcp²u c v³ddk h rqi^a pⁱ d³æugm
 ud⁰ ô i C vto ²ul gv ku o gi o wcvlc gl v. o gtv cⁱ i {gto g/
 ngmpgm ²u klcncm ul qñw d x ²u u t jclcv cfpk o gnⁱ
 kf dgp cⁱ go dgtgm wf cvcpqm ²u i qtqo d^a n⁰ O kpv cⁱ i {^ñ
 o ¾æu pgo vgtgo o gi. o ^ñ c xk^a i ²u ul ^ñpm² i vrgp r^ñxg^ñm
 gn pgo j vmpcm ^ñ { gul gu²i ulpeu o ^ñ jcl xcp⁰ G²tv n^ñrcul v
 l^a mo gi o ci wñvc r cr qm² u d^{c^a} v^ñku⁰

ô i Xc^ñro k xci {qp c ul²rgu pci { xkⁱ i dcp. cⁱ o kpf
 t³klf uwo o^a dcp cⁱ go dgt dgp o gi vñ n^ñvm o kpv c pci {xk/
 nⁱ i pcm ^ññ^ñtg ²u^a dt^a | cvlc⁰ ô i C hlg jcu^ñrcv^ñqu c o gpp{qt/
 ul^a i j qⁱ. o gtv o kñ^ñrrgp c o gpp{qtul^a i n^ñrgm ²u i ¾o d³ñⁱ .
 cⁱ qpñ^ñrrgp cⁱ go dgt pgm hlg ku. ²u o kñ^ñrrgp cⁱ o gpp{dgp
 j²v rmp²vc xcp. cⁱ qpñ^ñrrgp cⁱ h dgp ku cⁱ ²t² n^ñrgp {u² i pgm
 u gul n^ññ⁴ k xcf pcn^κ cⁱ n^ñv ul go. n^ñv h^ññ n^ñv qttñ^ñ v^ñ ²u cⁱ ul^a 10
 i u o kñ^ñrrgp cⁱ o gpp{dgp rñ^ñqⁱ pcm cⁱ epi {c^ñqm ²u cⁱ d^ñfqi
 rñ^ñgn^κ cⁱ qpñ^ñrrgp cⁱ go dgtk qñ^ñu^a i pcm rñ^ñ j gnⁱ g c h⁰
 Cⁱ Kvgp rñ^ñg^c d³æugu² i. ¾³o gvgdd rñ^ñkm c uko c n^ñrcq/
 p^a dcp⁰ ô i O gtv cⁱ cn^ñ» fqñi qñ^ñcm jcu^ñrcv^ñqu qñ^ñcm rñ^ñ
 rñ^ñpk cⁱ hgu ²u o gp {g^ññ^ñ gl⁰ O gpp{dgp r g^ñ ki ugo o k ulpeu
 jclcu ul t³u. jcpgo o kpf gp n^ñrcul. o kpv c J qñⁱ. Pcr ²u
 Eukñi qñ⁰ Cⁱ ^ññ^ññ^ññ^ñ pgo eukñi qm i jcpgo eum cⁱ cn^ñ»
²i dgp rñ^ñ pgn⁰ Cⁱ kñⁱ i jclcu eukñi qñ⁰ xgu^ñ gf gnⁱ gv j qⁱ pcn⁰
 J qi { r g^ñ ki c J qñⁱ n^ñrcul. cddep ku o gi vgu^ñ km j qi { n^ññ⁴/
 r² r^ñ cdgu² fdgp cⁱ n^ñrcul qñ^ñ v o kñ^ñ r^ñ v^a m cⁱ v ul qñ^ñ m
 o qpf cpk^a o hgm^ñ v^ñ J qñⁱ ⁰

..Cⁱ gi² ul² i pgm ku jcul p^a n c n^ñrcul uⁱ i 0 H h^ñ l^a u^ñ n ul go /
 helcu^ñ n h^ñ n m gñ^a i cv^a m c jclvñ⁰ Cguew^ñ r qv tgp^ñ gup^ñ jcl/
 vñ^ñppcm hgu^ñ C uqñ^ñ cl^ñ go dgtgm p^ñ f xgugñ^ñ c p^ñ f xgu² i
 o kpf gp dgvi u² i ²u gt v^ñpu² i qñ⁰ J cf lgo dgtgm p^ñ gm ku cmenⁱ
 o cvcp⁰ Cⁱ cuu^ñ qp {qñ^ñ cm j quu^ñ Aj cl^ñ m t³klf gul ¾ñ⁰

Lqdd xqpc c² t⁰ j c o gi i qpf qñ^a vqm j qi { cⁱ Kvgp
 cⁱ vto ²ul gv cⁱ n^ñrcul go dgtv nkx uqm cl^a pf² nkxcn h^ñ nⁱ
 gu^ñ gw. pgo eu^ñ i vñ jcpgo xgl² t^ññ^ñ v^ñ n^ññ⁴ kgndgp⁰

ZX~~KOU~~ f \ CF

T! I KO CI [CT GNGI [GUF CNQM

—LJ ~TVO QPFQM

Ncnqf cm ki clf 3858/d»n

—lj ¶vo qpf qm o kpf gp tg^a j cmi cuuqp.

Kikmdgul²f go pgmj qi { j kgrvcf lqp.

C| kcrpcmd^a vqt o^a uvd² nř vj ci { lqp ô

C| w² p o gi rgj gv. d^a t kwqp/ki { qp0

J q| qmgn o cuvcp gi { j kw»tk^a v

J qi { j c o gi r²4j gvp² o cpcmp»^v l^a v.

| uj c o gi wfj cv^a o t³4kf uwo o^a l^a v<

C|² tvnk² kj ci { lc o^a uvdqtksř #

Gi { u| gi² p{ go dgtt² nř u| gp dgu|² f go ô

J c u| »o l»nu| qn^a rpe. o cuvcp² pp² ngo .

F g u|^a tc| c| vqtnqo . c|² tvpkpeu nř xgo .

M²4|³ pf tg^a o c| dqt v. pg v² nř o gi v² ngo #

Gi { x² p go dgt kn{ gp r cpcu| v kpf ¶lc<

J^a tqo hrgu² i g p² nk g xcr.

C| u| gtgpeug pgnk ¶ / u| qn^a rpxcr.

³4³o ³4² n² dgp o kpf gppgmj ci { c0

C| gnu ki gp l»² u u| g² ¶ xcr<

Eucnj qi { f kttgnf vttcno kpf gppgmj »rc.

J^a | c/pwi² nj gvg ô eulqqucp^a m<

J cvj »pcr dcp gi { u| gt nk³4 tkxcr0

C| nḡp{gtgvul²r gp o gi wf w u^āpk<
F g u>vgrhḡnlvgwdgr^lg vḡppk
U^āḡvḡp wⁿnc o kḡf ḡpnḡt j ci {pkô
i { u| qnḡwxqnul gi²p{ ḡpi ḡo wtvcpk#

Kḡ| vḡto²u| ḡvkxqn^p2nku| gi²p{ ḡḡm<
C| f qnḡi ḡḡo n³n³4wuj c nḡf x²ḡḡm
C| u| ḡo²vdḡp r^ldc o gi dḡvḡwḡḡḡḡm
Ucx^a vḡḡo²t| ḡwḡo uḡj c²wⁿḡḡḡm

O knḡt u| »nc o p²nk<ḡpi ḡf ḡḡo ḡu xqn<
Eucnḡ qi { o kḡf ḡḡḡndḡḡ ḡḡḡḡḡo u| »ḡw
ḡnku v²nḡ| nḡw c| o klcxco xqn. ô
C| l>nⁿu w²p qn{cp xqn o kḡv j qn

O gi j cⁿ c| qḡdcp u| gi²p{ p{cxcn^au<
M²tv^tḡ^a o u^an^l o kḡf ḡḡ d^āwⁿu
D^apcv nḡḡt u²i .²u pci { »j cl²u
Uqmlcli c²u w²p o²n» n^ltxcn^lu

F g c| qḡdcp ku²vo gi l xḡ nḡf xḡo <
O ḡtvn p j cto cf pcr te o^au hḡḡu²i ḡo .
C| o gi xk^a o ḡ²d^apcvqu u| ḡxḡo ô
Mḡḡmcl l>xqn²vḡḡo hḡḡl j ḡḡo

G| o kḡf ḡḡt ḡ> xqn c| o kḡ ḡⁿn³4<
Eucmc| u| ḡ³2u hḡḡ^au p²nkḡḡo n³n³4w<
C| j qne²i²tvⁿ vḡwqf c Uḡḡ³4<
Cn^ltnkkw o gi ô f ḡ hḡ ḡ³4

U vo knḡt u| gi²p{ ḡḡm²p| ḡ ḡḡḡi {qwk<
C| nḡḡv^avd²kw² u vo²i ku l>nⁿḡw.
P²j c p²i { n²| r^ld ku ḡn j c| co^au| qw.
P ci { n^wp^ai { co dcp ḡḡo²n²o eu^āu| qw

P ci { nḡi { ḡḡḡ cⁿḡt eu>nⁿenlo^af qw.
Uḡḡp^an^vqte^ao qḡ. i { cⁿḡt w. j ci { qw
P²j c p{ cⁿo qḡ ku^anⁿḡn^lf qwô 0
Mḡdḡḡo ku cⁿḡt vḡrktcⁿf qw

Wi {cpc| nq̄teuqo^a p u| gi² p{ o gi j cr̄.
P²ngo pci { d^apcvq^{v2}u uqmd^Δvj ci {c.
M̄p̄p{go pgo j w̄nj c̄v uq̄n̄ w̄^o pc ô
J qi { gul go dgp lwc^a m̄r q̄vc0

J cto cf kn̄evgr̄xgo² p hgr̄u² i ãn̄
M̄kpgmc|² p u| k̄go h̄^{3/4}ã^{3/4}wg^{3/4} ãn̄
^{3/4}ã^{3/4}o^{3/4} dgp j clco o gi eucmpgo u| ãn̄ô
I {cn̄qt̄v t^a o w̄n̄² p̄v t̄clvco n̄² p{^{3/4} ãn̄ô

Xcr̄ c| pci { ngi {gu o ci exlgn̄
O k̄pf gp f q̄ni ckdc̄p l» f q̄n̄i v̄gx <
Eucn̄j qi { v̄²rdgp p{^a tdc̄p xcr̄ j gp{²n .
u| gn² u v̄xcu| cn̄xgu| v̄gi j gxgt 0

I {qtu xq̄n̄v o k̄pf gpgndgp. h̄^{3/4}n̄^{3/4}ã^{3/4}v̄l» tgi i gr̄<
O kn̄qt v̄kn̄u| go² v̄gp xcr̄eteu^a nu|² llgn ô
O²i cm̄qt̄ ugo n̄² v̄q̄w̄l»nu| go gk̄xgn̄
Euk^a l^a v̄q̄tr̄ã^{3/4}wg c̄n̄» ãpi k̄xgr̄ô

P go gr̄i xq̄n̄p² nk² f² n̄i c̄n̄f pk<
J cpgo o k̄pf gpn̄qtq̄p u| q̄n̄q̄wul wpp{cf pk<
O kn̄qt h̄^{3/4}ã^{3/4} dtgf gw<w̄f q̄w̄n̄q̄ur̄v̄pk
C| gi {kn̄u| qo u|² f k̄vno^a uk̄nj q| hw̄pk0

J qi {j c l^a o dqt xq̄pc c| l» x r̄gi² p{. ô
P²ngo k̄ppqo cf pc. pg ngppg h̄^{3/4}ã^{3/4}x² p{=
J c pgo^a f<u|^a n̄lq̄p t^a c| u|^a t̄c| n̄²ã^{3/4}u| x² p{#000
P g r̄i { j^a vdct^a qo² pj q| l^a o ngo² p{#

C| gl gtj cu|^a | dcp² u j cto k̄pej cvdc̄p
M̄ct^a euq̄p{ j cx^a dcp c̄tcv³ u v̄³ ldc̄p
Gi { l^a o dqt v̄³ tu^a vo k̄pf gp f q̄ni^a dcp
Gm̄² r̄r gp f leu² t² c| o cn̄jo j^a | dcp0

HGP | MMGN H' NHQTF WNV 000

O gpf kni u² pgm

Cddep c| qtu^a i dep c| o gn{dgp²p xqnco
Gi { wf cvcp i { gto gm^{3/4}n^{3/4}t² x^a n^a r^a wco =
J qi { qw^{3/4}n^{3/4} pgo xqnc| gn w pgo wf wco .
J qi { dqij^a p u^a pvqwc m cmqt²p qwxqnco 0

N^a wco qn{ u| Ap{ qi qv. o gn{pgmi^a dc. u^a tp{c<
F wp^a v^a ncn² tvg cppcmj quu| A^a i c=
J f pcmvgw² mc| vqwF wpc n² vr ctv^a tc
C| uqmngtgungf go dgtgmu^a o^a tc0

N^a wco qn{ j cievku c| o gn{pgmi { qo t^a dep
Gi { ngi { gwgp gtf xcr. v^a i cu^a i dep
J qi { j^a tqo u^a | go dgt r ctk^a p l^a tv³ dep
Ggi gvp{ wf u| qwdgppg j co cti^a dep0

N^a wco qn{ ^{3/4}n^{3/4}ku. o gn{pgm f^{3/4}gnc
C| j gi { gngv² tvg cppcmj quu| A^a i c=
J qi { w^a gpn² vj gi { t^anc| h^axgvgt^a i v^a ô
O gn{gp euw^a mu| kncl . nkc| vpgo r^a wco

N^a wco qn{ vku^aku. o gn{pgm vl^auc
Tgwgpgvgu pci { xqncppcmj quu| A^a i c.
J qi { j wu| qpn² vhc^awg^a quqwc|^a tlc ô
W^a { hgi^a pvc o ci^a vo k^apvcl v^agpi gt j cdlc0

O quvqn{ evj c| wf qm nkvo ci co ugo j ku| gm
Vci^a o c| wcmku gi { r qnw^a vxgpgm
Xci { c| cu| vci² tg gpi go gv^angvpgmô
Cxi { c| clw^ap ku gdt^af qp nkxgpgn0

N^a wco c| F wp^a vku j qi { gi { u| gt o gi² i gw
O^a uwwkuo² v^a wco qn{cp go dgtgmv
Mkmul² ip² ngi { gdgvuqj cugo gwpgm
Gi { o^a utc n^{3/4}u| ^{3/4}v²mc| r^axgi /gi gv3

ô C| nkg| ²pgngv³/dd² pgo j cmqwc
 Cxci { c| ²pgm vÃtugup dqueª vc.
 Mxxqpc pg lwpc kn{gpª ncr qtc
 C| ngª p{qmn³/4² nēghcmqtuª i tc0

HWTEUC —VTCXCN

\ª r qt guu xgl guug
 C hqti »u| ²nngti guug=
 O kpf gp nqxc tÃi lqp hēn
 C tÃf u| gi g j wrlqp gn
 Tgr gf lgp c i { gr n /u| ¶.
 Rkpeg vqnc hqn{ lqp nk#

C DQT F ÆU TGVK

ô V³/4gf²mc ZXK0u|ª | cf oª uqf kmhgrª d nô

Mf P VQT

Eumcrki f Ãf qmjmj qi { j c dqtqo plpeugp
 O gn{gv²p pgo cf p²mugo o kftª i c nkpeugp0

C| hc| ²mÃtugup vgrgup²nlqddcp nupi <
 Mª pvqt j c l» dqttno gi vgrkm lqddcp f qpi 0
 Hc| gncuj c j gtr gpv<l»nhqtqi c| nqtqpi ô
 J c ¶ { plpeu. dª t²tlg j cvqo cvpci { fqtqpi 0

RQ: VC

Kc| =nª pvqt vqnc c| dqtwno gi | gpf Ãno
 —i { . j qi { c j ¶xgnpgmhÃvanku o gi eugpf Ãn=
 Mª pvqttnr q²vc u| kv)gi { j Ãtqr r gpf Ãn<
 Vcr uqpcmo kpf ngwgp o knqt u| n | ugpf Ãn#

Dqt p²mÃngro²pgmrcuucp hwj cvnqxc.
 Qn{ vqo r c uquqdc. ngo²p{ o kvvc nqxc=
 Jª pp{c xgvko ciª v u| ²llgnkf g u vqxc<
 Fgo²i ugo eulpª nj cvhw» xgtugvuqj c0

O kpcr gi { r cvt »pwu ul gi ²p { xqmqo ul ^a pvc <
 Dqttcno gi kxcv ô gr²o c | vpggo d^a pvc.
 O gtvc uqmu | ²r xgtugveucm Ai { ul »tv. j cpvc <
 Cmmqt ²p r q²o ^ao wi tqwu pgo xqmv^a pvc0

J c r gpli j cuco dcp v^{3/4}n^{3/4}meucmj »xk gv<
 Cmmqt c r q² | ku p²ngo ncteu Ap hk gv.
 Crki kqmxgtugvnrk ppegvxc i { vk gv
 C | kur gpli pgo cf ugo o kngf xgu ¶ gv0

F g j c dqt nⁱ vku | qo <xgtugv ¶ pko gtgn0
 O gtvdgppgo dw | qi pcmc | xgtuul gt | gtgn0

PGO XCI [QM: P RCTCU \ VGO DGT 00

P go xci { qm²p r ctcu | vgo dgt. tg^a o Ai { p² | | gvgn#
 Hco ¶ k² o . pgo | gvgo tg d^at hi { gr^o g | | gvgn0
 Dk qp { qu cr^a o xqrv
 Mkt ncp { ^ao ku ul »n<
 J qi { c hci { dcp ctcv³ unqt o gi j qn0

Gu | go /ku | qmv^{3/4} | u^{3/4}n^{3/4}d nu | ^ato c | vcmgrko <
 G | vo wcv^a mc nqteuo ^a nup cf »urxgrko 0
 Cr^a o cnⁱ tj qn^a tv<
 C x ¶ | dgp pgo vgw nⁱ tv.
 Gxgw. kxqw. uqmn ¶ p^a nⁱ uvpgo x^a tv0

G | v^{3/4} | u^{3/4}mpgm j qi { ²p xci { qmgi { ki c | o ci | cvc<
 Dk qp { ¶ | c g | vgvqtnqo i { cmt ul qo l Ai^a i c=
 K³ cvp^a o o kpf gpnqt.
 Tgi i gn² u² ll² mqt. ô
 Eucmner j cuco . o kpf gpnqt l » c dqt0

Gru t² ul g e ¶ gtgo pgmc l » nⁱ r qu | v³ u j Ai<
 J c nqnd^a uu | cnpkpeu hqrf q | xc ô c ul ¶ kgo ku o ^at d Ai0
 Qj ^a rf qwnⁱ r qu | v#
 Rectef leuqo /j q | v ô
 f rf qwenknqnd^a uu | cnhqrf q | v#

O^a uknt² u| g e[¶]o gtgo pgmco c l» dqr qtqu.
 J c c u[¶]mj Au pgo dqtqu ku<ngi cñ dd eucmdqtuqu=
 O gtvdtu p² m[¶]no² tgi ô
 Gi {g o gi c h[¶]tgi .
 Cpp{kv²t. o kpv gdp gmc hcn[¶]tgi 0

J cto cf kn[¶]veko gtgo pgmj kx^{1a} mn[¶]cu^a u/r[¶]xpgmô
 G| vgvctv^a mc o ci {ctqmngi lqdd² vgrngpgnô
 Xcnkn[¶]g| vhcnc<
 Clcn[¶]vo gi p{cnc ô
 M[¶]nxkpxc o gp{qtu^a i pcmxcnc0

P go gung² n/r geu² vgo pgmc xku^a u^a vwf pk
 J c nkx^a pqf <pgo cnetqm² p gddgp j c| wf pk=
 G| hqtf ksqwn[¶]uc
 M[¶]pgmpkpeugp o^a uc ô
 Ue{vj k²d»nxc i {qp u^a to c|^a uc0

Vqnc r gf ki ngxgrgo pgmn[¶] vncvqp^a u/d² n² u.
 T² vguugnxcp nk² rnxg. l» xcuci² u u² rgu.
 Qj^a r[¶]qw^a to^a rku ô
 D³eu³u wcnp^a nku#
 G| gnrgj gw[¶] n³pp{gp i gpgt^a rku#

Cffki xcn[¶]nxk^a i qf dep j ¶tgu O ci {ctqtu^a i
 O ¶| c| kn{gp l»² vngv no ci cf o gi pgo hqu[¶] v[¶]f=
 O kj gn{vc vqt[¶]vc
 Qtu^a i qf o gi n[¶]vc<
 Gij gtxcf v[¶] nô gihqpp{cf v[¶] r00lcl o knqt^a mu[¶] n[¶] dtcA#

ZX~~KK~~OU *f* \ CF

O KMGUMGNGO GP NGXGNGK N

38; 2ô 3984

F tlp^a r qn{ . 4; 0Qevqdtku 39390

K glg o^a t. ²f gu p² p² o . gi { r g x g f v x g p p k n g f p g m
 co g n{ g v k w c f v m o gi 0 O gi ² t f g o r k o^a t n g f k u . j q i { o gi ¶ /
 l c o . o k n r r r g p ² t n g | v ã p m g d d g p c e u^a u^a t k x^a t q u d c p 0 I c n k /
 r q r k d » n 44 / k m k p f w w p m x c r c o gi 0 C | À q p u g o o k q n{ c p f q n j i
 p g o v ã v p v . c o g n{ o ² n » x q i p c . j q i { o gi ¶ l c o . o k x g n
 l ð v ã p m c o k p v l ð j g w ã p m n k l » . n k n r e u l d c . r q x c n a p 0 J c p g o
 © | ð p m ã r t k p g x x^a t q u d c p w t w p m u l^a n^a u^a p c m c | w f x c t^a p
 q n{ c p p c i { u | n v v n^a w p m x c r c . o k p v gi { p c i { u | k k x c h c .
 ô c d d e p u g o j c | w f q m j c c | v o q p f q o . j q i { c u | n u | g o
 k u x q r v l e l v c q n{ c p p c i { . o k p v gi { p c i { u | k k x c 0 F g c e u w f^a /
 r x q u . j q i { gi { h g n n c |^a i c k p ² t v u | n m x q n^a p c m o^a u h g n n
 o² i e u c m v k u | v c gi t g u x q r v . o^a u h g n n r g f k i o² i e u c m c m n a t
 n g | f g w x k^a i q | p k 0 C j^a t q o t² u | g c | g u | v g p f p g m j q i {
 o k p v o w p m ñ f k m c u | n v p . k w gi { u | g t u o k p f o gi r g j g v g w
 x q i p c n^a v p k 0

4: / k m r g f k i o^a u l^a n o² n { h ð f p { k t g ² t n g | x² p F t l p^a r q n{ v » n
 c n e l o c n i p v p c l c . c | c | w f x c t k n e r k^a p { c . x c i { n^a u l^a | k i
 x c n » v k u | v g m g n l x g w t w p m g r g k d g p . j q i { n^a u l^a ð p w g c e u^a /
 u l^a t ² u c | w t c p g x² x g r 0 F g . c o k r g i l q d d x q r v . h^a n o² n { h ð f /
 p { k t g c x^a t q u » n u^a v t q t m c r c w o gi x g p f² i g r g d g p p ã p n g v
 c | w t c / p g x² x g r 0 F g . n k i q p f q i j c v p^a . j q i { c v ð ð ð p g m q n{ c p
 l » ² v g r g x q i p c A C x c n » . j q i { o k p f g p k m ã p m ² j g | g w . f g c | k u
 x c n » . ² f gu p² p² o . j q i { ² v g r g p n g n g o h g n c u | v c n » n p q j c
 g w g o r g i c n^a d d p { q r e x c p v ñ n² v g n l n 0 G | v n g f g n p g o j k p p² .
 j c c u | q n{ u v p g o w f p^a ô g d u | q n{ u # M w | c u | q n{ u # ô

Lcl#²f gu p²p²o. crki o^atvqwwpm gi {ul gt c v^andcp. j qi { c|v grkx²m gr⁴Am c o^auqfkn¹v jcto cfkn¹v gi { ul »xcn j gwgp xci { p{qrexcp v^an ¶ { tgr Am gn gn nAm⁰ P²o gn kn¹ dgp o²i pgo ku o^atvqwwpm o^at xkx²m ô Ai { vgvul kn j qi { eucm c| qttwpmqv cnetvcem o gi xgpf²i gpk²u ¶ { nqr/ rnrkc ngrAm hgn c i c| fci gd²fv n⁰ —i { xqmwpm xcrc⁰ kv Vcpvnu c vgrg x¶ | gn xcn» n¹fdcp. fg o²i ku pgo kjcvkn dgn ng⁰ Hgr¹ci cf vco cmtqt jctci qu nqr nr¹uqo dcp. j qi { uqj c² j gp v⁴Am xgpf²i u²i dgp pgo o gi { gn⁰ Fg c| kcit»n ul » ugo xqn⁰ C xcn». j qi { co gpp{kv gwAm ugo o k ul qo / lAr¹i qvpgo qnq| qw⁰

Gppgm c ul^atc| gd²fpgm x²i g r²x²p. c| w^ap ki gp n¹p{/ p{gp n¹tc Ar²pn⁰ C| wvpm c eu^aul^at rctk^al^ap pci { rqr^a/ xcn o gpg c x^atquqp x²i ki c ul^am¹u^atc. guxg r g f ki l » xceuq/ t^av mAr³Am pgnAm c nelo cn¹p. co gn{ lqdd xqiv c| gd²f/ p²n= o gtv pgo v⁴Am ul qn^ancm c| cu| vcp^an jcpgo c o k eugr¹f km² u cmtqt xkx²m nk c v^arv. co knqt o qpf qwwn⁰ G| c nelo cn¹p r g f ki ki gp ngf xgu go dgtg c eu^aul^atpcm= j qi { pg xqpc. o knqt c r^ap{^axcn j^anA O kvj qi { c xg|²t v^adqtdcp xci { qp. o quv xku| k x²i dgp j kxevr^a v⁰ Kitej ko / pcm j ¶ l^an⁰ C| wvpm^acm ki gp l » cnet»lc⁰ G| ku lqxcmqvc gi { km c eu^aul^atpcm j qi { w^ap c mAr¹l³p Hcpekeqtul^ai dcp⁰ O²i pgo r¹wco nelo cn¹pu^ai^av. fg j c uqj c pgo r¹uqo ku. ul gtgvgo ngf gv⁰J^a vngf gpi go gvA

F tlp^a r qn{ . 340F gego dtku

3939

Oc. ²f gu p²p²o. c xg|²t k gp² c| wvpm^acm j qi { l » ul ¶ xgn r¹v^a. j c j q|^alc o gppg⁰ Fg. o kvj qi { o k o kvf j clf Am xci { wpm eucm c| wvpm^acm xci { qp j^atqo mxc. c|²tv o kvf gpkAm¹ cn¹ gi { /gi { mxcv j q| vpcm²u pci { v⁴Am egtgo »pk^axcn o gp²pm c xg|²tj gl⁰ Fg gk²rlg gn ngf. o kvv o gi klgf vgo xqm= o gtv o kf p c xg|²t j^al^adcp r¹r/ vAm c uqm p²r vrik vqtqm^aen ngl f g nk^anq| pk o kvv o knqt c|v nk^anl^anc vqrxcl# ô Eucm c|v p²| vgo o^at. j qi { o gn{ km tci cf o gi⁰ Fg c| klgf v²i pgo uqn¹ki v^atv= o gtv c xg|²t l » ul ¶ xgn hqi cf^a c| wvpmqv²u o ci c o gn² Ar²v²0 M¹tf gl vgo c| w^ap. j qi { o kg xcn» xqiv c| c nk^anq|^auA O qpf qv^am j qi { ul qn¹u nk^ancpk o knqt c xg|²t xcrc⁰ gn{ kf gi gp Apcm^af cwf kgep²v< | rlgp Oc j wo gw# | rlgp c i { | j gvvgp

eu^au^at# | nlgp c j cvcm cu xg²t# | fgu p²p²o . r¹vc n¹gf .
o knqt c| go dgt c u| qn¹uv pgo wf¹lc ô o^au¹qt ²p ugo
k¹gf gm o gi 0 G¹i c . j qi { c| vtwpm n¹v »^aki xqnv c o²u^a/
tquacr¹ C| v o qpf¹lc hgn r¹ē . j qi { v¹/dd gu¹g xci {qp . o kpv
ugo gi { o²u^atqupcm ²u pgo eucm c d^atfqv wf¹lc h¹ti cv¹k
j cpgo c| qtu^ai fqi^av ku⁰ Eucm grj kj gv¹Am o knqt qn¹cp
pci { gu¹ go dgt o qpf¹lc c| v hgn r¹ē . o kpv c o k vtwpm cnk
ku c xg²t rctk^al^ap o gpv xku¹c . ²u c| v kf¹g cl^apf²n¹q| v c ô
o^at g u| qn¹u⁰ Vwf¹qo . j qi { o knqt c eu^au^atj q| o gi { Āpm
cmqt ku ngu¹ gi { rctk^apn⁰

O qpf¹qwo o^at . j qi { g| gm c xg²tgm c h¹/f¹k kvpgn⁰
Gi { nk^an¹j q| knp²m gl gnp¹gm pci { r qo r^alqm i c| fci u^a/
i qm= pci { wf xctqn⁰ Fg o kpv¹qi { c r qo r^alwnp¹cm gi { kn
t²u¹g cddep^am j qi { o kpf¹gnqt uqm u| qn¹c^anlqp gn wg .
o knqt r¹gf ki qtu^ai qu fqi qm¹n dgu²ipgm c u| qn^am qv
pgo n¹g¹gyp¹mc c| ²tv p²o c u| qn^an¹qv vctv¹pcm ²u c| qm
c| k¹v²uv Āi { ²tkm o kpv¹c u| »¹pa¹pcm ²u g| gm xc¹ppcm dgpp
c j^a| dcp . co kf¹p c xg²t vkn¹qu fqi qm¹n dgu²r¹o G pgo
l» u| qn¹u²A v¹o o²i p^an¹pm ku l» xqpc c| kn¹gp u| qn¹u .
²u pgo xqpc c¹pp { kvgo qpf¹c j^a| p^ar¹o

O k l wq¹w gu¹go dgAJ c p^an¹pm c| ³/₄gi cu¹qp { qm p²o^am
xqp^apcm c n^ap { cu¹qp { qm pgo d^app^an¹c fg ²p c| v d^apgo .
j qi { c o k fqi vpm ki gp/ki gp p²o^ap h¹q¹ . ²u ugo o k gr¹dd
xc¹n¹ o q| f w¹u¹v pgo r¹vqo 0 Fg cw¹n vctvm j qi { o²i j^av
t^add pg o gplgp . ²u kv pg vgr¹gf l¹Āpm o gi 0 | fgu p²p²o .
c h¹| cn¹u c n¹ctv^ap n¹gm l^atpk c h¹| ²n¹pcm ²u c| v pgo o qpf/
j cv¹c c h¹| cn¹up¹mc o k¹tv m¹Āf³/₄k gpi go Ftk^ar qn¹dcA
lqddcp u| gtgwgo xqpc n¹r qu¹v¹u h¹| ²m n¹ppk Gt²n¹dgp .
o kpvgo n¹x²v kx» h¹peu¹lc c eu^au^atpcn⁰ C| v pgo qn¹ucp
o qpf¹lc/ ²c v¹/₄³/₄m j qi { c| kv¹gpc tcn¹u n¹gp { gtgnv j kpv¹g
gn ko kv¹co qw c| go dgt u^ao^atc . ²u qfc n¹pgm¹kp¹gm gn
n¹gm o gppk ²u qv n¹gm o c¹cfpk xc¹o²i c n¹gp { ²tdgp vctvA
kv xci { qp c o k tcn¹u n¹gp { gt¹Āpm grj kpv¹g . c| ²tv gi { Āpm
dgn n¹g . co ĩ¹ cddep vctv . | Āi qn¹f^au p²m¹Ān ²u c| v pg o qpf/
lwm j qi { lqdd xqpc Gt²n¹dgp o^ar¹v gppk o kpv kv d^a| c/
n¹gp { gtgv⁰

| fgu p²p²o . v¹o pgo qm p²m¹Ān vctvm ²p cw¹n
j qi { . j c c l» kv¹gp o gi vctv gddgp c d¹wf qu» gvudgp . v¹o
gi { n¹c| cip { k tcn¹u n¹gp { gtgv n¹gm o gi gppgo gddgp c| qtu^ai/
dcp= o gtv . j c gi { u| gt o gi xg¹km c v¹/₄³/₄n¹/₄ . j c n¹g v v n¹g .

³C u| »dcp¹h¹ti » xg²t t³/₄k¹f¹gnc| gn wo²i o²u^atqu xqn⁰

c|v d²nguu²i i gn ngpk o gi 0 C o k o²u^atquwpm jc l> xg|²t
ku. fg pgo l> jcfk go dgt=jc u|kpv l> jcfk go dgt xqpc ku
fg vgv c eu^au^at Ai { pgo u|gtgk o kpv c nelo cnepv c
nkpgm ki gp pci { gu|g xci {qp. fg c jcfcnq|^auv Ai { u|gtgk.
o kpv²p c rt>n^avqtu^aiqv. eucm cpp{k^aku wf j q|^a ô fg.
c xg|²tu²i gp. wf plxcn> fqni. jqi { ncr=c eu^au^at xglg
r²x²p. gn ku²tjgv=jc c|v rfgki gr²tk c dk qp{qu. jqi {
c d²nguu²i gv o gi euk^arc. jc rfgki c d²nguu²i o gi ngu|.
eucm An^aAm c tcn^au ngp{gt^apm o gn²= o gtv kpp²v nk pgo
o gi {^apm cffki. co ^a c|v o gi pgo guu^a An⁰ | p rfgki o kpf/
cffki. xcrc ^a c tcn^au ngp{gtgo dgp vtv u|^agugp u|gtg/
vgo nfgv⁰ J^av nfg gpi go gvA C| gi²u²i kg l>n xki {^a | qp
nfg = ugo o kplpeugp cpp^a nft^ai^a dd0

Ftk^arqn. 440f rt0

393: 0

Pgo wfqo. jc c Pq² d^atn^al^ad>n ^aqo /² g|v c ngxgrv.
xci { Ftk^arqn{d>n= o gtv kw o kpf gp^aw qn{cp pci {^atx^a
xci {qp. jqi { c| gi²u² x^atqu x^adgp xci {qp0 Eucm c l>. jqi {
vku|v kf m l^atpcm o^aun^apv c|v i qpfqpm>m jqi {
guo²v ³/₄ ³/_px^a ngu|gp0 J kj gv. jqi { c jgi {gnp rxx jxcem
u|crqt^aqv^am o gi c| kw xcn> hqn>xk^agnv= o gtv co gn
hqn>x^a o gi {²p gn c j^a|wpm gn w. Ai { o gi^a tcfqw. jqi {
c| we^anup eu>pcn^anup l^atpcn0 Fg kw qn{cp fqni v⁴v²pv
co gn eucm c| ³/₄ ³/_px^a nqt v⁴v²pv= o gtv kw n^aj^avqp ngn
rgw grj q|pk c|²vngv c nup{j^at>r0 J cmqwc nfg c|v. jqi {
o²i c t>o ck eu^au^atqm ku kn gp r qo r^axcn m^arf³/₄vgm xqpc l
c nup{j^atcA Eucm² rrgp J cdcwnpcm nji gvgw xqpc u^atc|
n^adden²vngv j q|pk0 G| c r qo r^au²vgnj q|^au v^ao n^av per
vtvq⁰ C|v pg i qpfqrc nfg. jqi { vrdgu²i i gn i {cni ku
gn pgo j q|jcw^am xqpc. o kgn c x^a eucm u^atn^ar²ki²tv.
fg c u|qn^am kn^add o gpvgm rxxqp c nup{j^atc0 C dk qp{qu.
jqi { pgo xqrv u|^am²i^apm ctte c pci { >t^aetc. c nk hgn n
c|v vtv^am c |uk>m jqi { c| ³/₄ ³/_px^a nqt. jc hgm gpv c ngi /
pci {qddkm jgi {tg. c x^a ecm ³/₄²ki²tv. ²u o kpf gp^aw c
d^atn^a o gmgw l^atv. xcrc kpv c eucv>u c j kpv> o gmgw0 O^at
g|w^ap nji gv j^agnv ^apk o gtv o kpf c j c^ao o gngi gdd.
o kpf rfgki c j^agm o gi qnxfv^acn0 C u|gtgvgo gv c| ³/₄ ³/_p/
x^a gn pgo qn^ac= j^av nfg. u|gtgv² gpi go gvA Xki {^a |/
nfg c| gi²u²i kgA

Eucm pgo ngj gvgm cffki eugpf gu²i dgp. co ¶i o gi pgo wfqo . o kpv ²tngl gw ngf j c| c= o kxgn crki kpf wv o gi ngf kpp²v j qi { pci { ul²n v³ o cfc0 I qpf qmqo . j qi { c jcdqm o gi tgpi gw²m ngf gv0 Gf²i c. j qi { c| »vc pgo xci {qm p{vi q/ fcmqo dcp0 P gngo Ai { vgv| km j qi { c| »vc gi { ngx²ngn nkgj gvgw xqpc ngf c p{vi jcvwcpu²i d»r0 C o gn| pci { jcnm gm gvgm c| cdrcmqo crw. o kpf gpkm n n²tf g| vgo . j c pgo gw²ng o gi c| ²p p²p²o gvA Fg c| ^avq| qw gi { km ugo hrgn0 Eucm hAi i dgp vctvqo gm ²o gv o kpf cffki . o ¶i dk qp{quv pgo jcmqm ngf hgn r0 Tgo ²p{ngo . j qi { pgo l^at ngf Ai { . o kpv Lp^au. ²u pgo rgu| ul²Am²i gu. j qi { xcrc o gn| jcn i {qo t^adc mAf l go ngf pgm g| v c ngxrgo gv= o gtv Ai { o gi pgo wfjcv^a ngf. j qi { o k vgi pcr c mpuwcpk^ar qn| k nerw grgl²dg o gpv^apm n²j^avq. ²u qw c| Av o gm²w gi { ngtvdgp c| wvpm eucm vknqp o gi cm²vc n²pk c eu^aul^atv c nk ku Ft^akr qn| d»n ²tngl x²p. pci { r qo r^axcn o gpv d² c x^atqudcp0

P go wfqo . j c r¶lco /g. nkm o gpvpgm gn wg ²u w^apc0 J c r¶qo . wñ o c| v o qpf lc ngf. j qi { o k²tv vtj ggo cpp{k ¶^auuc<j c pgo ¶iqo . c| v o qpf jcvlc ngf. j qi { tguv xci {qn0 Tguv pngxv r gfk i . j qi { pg xkugrlgm kpn²dd r¶iqo 0 Ngi {gp ngf hki {gm gvgu j cmi cv^auuc0 C| we^anqp n²vgn n lpeu^atqm ^am²wcm uqtdec0 Ngi gn k l xg uqnef o ci^axcn c| cuucu dcuc ô c| w^ap c eucw| qm c| go ¶lgm c| w^ao^am *c| c| c rcrqm c| ¶^auwf »m. c ner leuk dcu^am c lcp^au^at ci c c o kucek dcu^a/xcn c n²lo cñ p c ner k^ap dcu^axcn ô c| w^ap c h xgl²t c o vñxcn c eucw| dcuc ô c| w^ap c Ocj wo gv cv| lchc c |^aul n²uc o gm²w. c eu^aul^at xgl gv²nk ô c| w^ap ekh^ap hgn²v² vgvw n²v vx²m nkm c| cm²tpv xkv²m ô c| w^ap gi { hgugw ²u ctep{qu n²uuk o gn| dgp xcrc c Ocj qo gv n²p/ v²ug ²u hgi {xgtg ô g| w^ap o gpg c eu^aul^at ki gp n²k^apco rctr^ap. o gm²wg n²x²p c hc ô c| w^ap o ²p²pgm c| kuqi n²/pqm ngwgp/ngwgp ô o kpf gpkm v²gf m²v²pd/m²v²pdh²rg ul ¶p n²p²v²udgp< c| gnu v²gf n²p²v²ug u^ati c= c o^auqf km pcm xgtg= c jcto cf knpcm |³4f= c pgi {gf knpgm n²m vchqc0 C| kuqi n²pqmr qf ki kpcu^ao dcp xcpcmc| wf xctp^ar0

N^avc ngf. o leuqf c ul²r fqñ qvñ wco vgi pcr (000000000000) c Rgt^adc o gi {gm cm²qt v²ddgv rt²fkn²mqn0 Cffki c| gi²ul/ u²i l> ngi {gp0 | fgu p²p²o . gi { ngx²u² o²i c n²rqu| v²p^an ku lqddcp ul gtgvgn0

O leuqf c u l²r^a mcrqv c | < vgi per gd²f gv f | ul^a dcp
 gwgo . xceuqt^a v r g f k i Gwt>r^a dcp ô k f g r g f k i pgo c n x g /
 i d g p j q | w m j c p g o c x k² p 0 O k p f g l g n d n o g i k u o g t k n g f .
 j q i { k f g x k u | c l^{3/4} w ã p m =² u c v̇ d q t q |^a u v g r x² i g | v ã n 0 C |
 d k q p { q u j q i { p g o c | g n g p u² i g n n l^{3/4} w ã p m g n j c p g o c u q m
 g u g n n c o g n g v g n p g o n g j g v g w | p k p a j c n² v i g p g t^a r k u
 x c i { q p x g n ã p n 0 C o k p f g p p c r k o w r w^a i o^a t k w c d d » n h q i
^a m p k j q i { x c i { D g t e u² p { k w t c o l o k j q | |^a p m x c i { o k
 o g i { ã p m j q | |^a l c 0 ô C x c f^a u | c v u g o o ã k m g n j q i { g n g /
 p ã p m p g x c f^a u u | c p c m c r q t v̇ p = o g t v c p² o g v n² k g v n g i /
 v̇ d d g v c | q p g m² m g f k m j q i { p g m ã p m^a t v j c u u q p = o k r g f k i
 n g i n k u g d d g p u g o^a t w p m p² n k 0 | u p g o w f q o . o k x² i t g n |
 x^a p l c ã f^{3/4} p k g l g n g v c u l g i² p { d w l f q u » o c i { c t q n e v . c n k m
 k w c v g p i g t r c t v q p e u c m f q j^a p { q | p c m u w j c l v q |^a u u c r 0 | f g u
 p² p² o . x^a l l q p c | q n { c p x k^a i k ã f^{3/4} m q r x c u u^a m² c | g x c p /
 i {² r k w o q v ã I q p f q r^a m² c | v j q i { o² i d² k u n g m c u l g o g n g v
 j w p p k g i { p g j^a p { u l^a | g u l v g p f n k i A

O gi pgo ngm² fgu p² p² o . c | ¶² t g v g v o^a u q p k 0 C pgo gu
 x² t . c o k v h q i c f . o g i v t v l c 0 J c o c i { c t q t u l^a i k x q p c n g f .
 v t v p² m x c r o k v n = f g g t f² n { k r x² p . q w c p g o g u c u u | q /
 p { q n p c m c u l c x q m q n { c p^a m p f » . x c r o k p v c d t e u c k j c x c u ô
 v t w c o g i j^a v n g f ¶² t g v k .² u j^a t q o x c i { p² i { j q p c r l^a v
 c v̇ r p g m v̇ ã u g g n n g f k w c o c i { c t c u u | q p { q m c r 0 X c n » .
 j q i { n g f n g u | g i { g f ã n g t f² n { k = f g g i { g t f² n { k c u u | q p { p g o
² t /² c p p { k w o k p v v̇ | o c i { c t q t u l^a i k ã C t » | u c v̇ d d g v² t
 c n » t » p^a n ô c p e r l² p { g u g d d c j q r f p^a r 0 O k n q t O c i { c t /
 q t u l^a i q p h q i { c v n u |^a u x c i { q p c p e r d e p . e u c m g i { g t f² n { k
 c u u | q p { v x k i { g p g m q f c . c p p c m u l² r u² i g g i² i l² p { g u u² i g v
^a f 0 G p g o f l e u² t g v j c p g o k i c | o q p f^a u 0 J c c | K v g p n g v
 u l g d d g n p g m v g t g o v g w g o^a u q n p^a n n k v g j g v c t t » n ã C t t » n u g o
 v g j g v u g p n k k u . j c n g h g m u l g o . o g t v v̇ k g p g i { c | » t c 0 J c c
 u l g t g p e u² p p g o h g m u l g o k u . e u c m l » n c n v l c o ô l q d d c |
 g i² u l² i c p p^a r 0 G l w^a p e u c m c | v p² | g o . o k n q t h q i n g f k f g
² t n g l p k f g o k p f g p r g t g r w w^a u » n n g m k f g l³ p p k 0

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Pq o^at²fgu p²p²o. xgi { $\tilde{A}m$ gr² c r gpp^av²u vku} \mathbb{V} /
 uwm o gi c r gp²u|gu memo^atkuv= o gtv o^at gl w³p c| \mathbb{F} ^au/
 j q| ngm hqi pk c r qu³nqv ngm m $\tilde{A}f$ ^{3/4}pk c j \mathbb{F} gngv hgn ngm
²dtgu|v \mathbb{P} 0 Oc p{qrecf pcr lc. j qi { kw c v \mathbb{R} gv nkgr²p.
 gj ci {c ngf dgpp \tilde{A} ngv. o kv u|gpv R^an c| q \mathbb{F} j qnev²u c
 eu^au^atk x^atqudcp ngx u²n \mathbb{F} dg xku|cj gn|gl v \mathbb{V} ² ngf o ci^av0
 Fg o^at qw c tguv²i gv pgo ngm jgxgtv \mathbb{V} pk jcpgo \tilde{t} cv \mathbb{P} 0
 Cp r g f ki o clf qn{cp j \mathbb{F} v m $\tilde{A}f$ ^{3/4}m ngf pgm v \mathbb{P} i gt jcdlckp.
 co gn|gp o kpf cn \mathbb{V} h $\tilde{A}r$ g o gi eugpf $\tilde{A}n$ ngf pgm \hat{o} l>. j qi {
 \mathbb{V} /dd h $\tilde{A}r$ g pkpeu ngw p²r0 Fg r \mathbb{I} gn u| $\mathbb{3}$ / $\mathbb{4}$ u²r u| \mathbb{F} p²u l> u| ci^a \tilde{A}
 j \mathbb{F} v \mathbb{F} qm c| w³p \mathbb{F} qo o gi c eugpf $\tilde{A}n$ j \mathbb{F} v0 Vgi per c lcp/
 eu^atci c egtgo »pk^axcn m $\tilde{A}f$ g cl^apf²nqv c| wv \mathbb{P} ncn0 C|
 cl^apf²m uqm u²r xk^ai qnd>n²u uqnh \mathbb{F} ng i { \tilde{A} o³eud n^anqv0
 O^at gn tg wfqo. j qi { gttg o kv o qpf ngf \hat{o} gttg c|v hqi lc
 ngf o qpf cpk<c d \mathbb{K} qp{ kngv \mathbb{V} cl^apf²m xqv \hat{o} cuu|qp{j q|
 kngw xqpc xk^ai qv m $\tilde{A}f$ gpk cl^apf²ndcp. ²u j c c lcp \mathbb{F} tci c
 c|v c| cl^apf²nqv cuu|qp{pcm m $\tilde{A}f$ ^{3/4}v \mathbb{V} xqpc. c|²tv fl \mathbb{E} u²t/
 p²o = fg. j qi { gi { i gp \mathbb{G} ^a rku xk^ai qv m $\tilde{A}f$ l^{3/4}p gi { hlgf grgo /
 pgm c|v uqj c ugo vctvqo kngpf pgn0 J c gl gngv o qpf lc
 ngf. ²p c|v o qpfqo < o gtv o^au qtu^ai dcp p \mathbb{G} xgv²i gu
 fq \mathbb{R} i xqpc. fg c|v wf lc ngf. j qi { kw pgo r \mathbb{I} gv cl^apf²/
 nqv m $\tilde{A}f$ gpk gi { cuu|qp{pcm c \mathbb{P} p^an ku k \mathbb{P} n \mathbb{I} dd j c \mathbb{I} n \mathbb{I} qu x²v \mathbb{G} m
 xqpc kw j c gi { cuu|qp{ cl^apf²nqv m $\tilde{A}f$ gpg gi { l \mathbb{F} tl \mathbb{P} cm
 j ceu \mathbb{M} gi { u^ant>| u^ad>n^ancpc ku0

Xcn>. j qi { c| k \mathbb{N} gp cl^apf²m pgn \tilde{A} pm xku|cv \mathbb{V} u| km²u
 o k cuu|qp{j q| kngpf cl^apf²n \mathbb{P} cm vctvwm fg c|v ngm o gi /
 xk \mathbb{I} u^arpwpm j qi { kw u|qn \mathbb{I} u. c o k r g f ki u|qn \mathbb{I} u xcrcj qn
 c| kngpf ku cddep c| qtu^ai dcp0 Cpi r \mathbb{I} dcp j c c| cuu|qp{qm
 n \mathbb{I} teuo^atc o gppgm c|²tv u \mathbb{G} pnk ugo \mathbb{F} ²rk o gi ngv= o gtv
 u|qn \mathbb{I} u0 Ur cp{q \mathbb{R} tu^ai u²n \mathbb{K} c| cuu|qp{qm gi { nku o crceqv
 j qtf q| pcm c| $\mathbb{3}$ / $\mathbb{4}$ \tilde{A} ndgp. xcrc o kv o^auww j qtf q|^am c nku
 mw{ceun \mathbb{E} nqv0 Hicpek^adcp. xci { o^auww gi { \tilde{A} tk cuu|qp{
 c j k \mathbb{P} w^la dc $\tilde{A}n$ guki qf c l^at. c j qxc u|gt \mathbb{K} = kw r g f ki gi {
 \mathbb{V} / $\mathbb{4}$ $\mathbb{3}$ / $\mathbb{4}$ m \tilde{A} pcm c h \mathbb{R} gv²i g gu|v \mathbb{P} pf gli ugo o gi {²p nk c j^a|d>r0
 Ngpi {gr \mathbb{I} tu^ai dcp c r cr qm c u \mathbb{G} nt \mathbb{G} u \mathbb{F} ²dgp ngx u|gp \mathbb{V} gv x \mathbb{F} /
 dgp v \mathbb{V} u| km c| ²i gw dqtv. j qi { o gi j r \mathbb{I} ^{3/4}p. co \mathbb{F} c o k \mathbb{U} ²v
 gr \mathbb{K} ²i gl km= p^an \mathbb{P} pm o gi g \mathbb{P} i gf p²m² c|v \mathbb{V} A P^an \mathbb{P} pm u²i {gp/
 r \mathbb{P} pg f qj^ap{q|pk gi { \tilde{A} tk cuu|qp{= kw r g f ki o kpf f qj^a/
 p{q|pcn0 M \mathbb{P} ^adcp c| qn{cp r \mathbb{G} ^ap{ o gi {²p j co ct²dd l \mathbb{F} tl/
 j gl. cn \mathbb{K} pm r \mathbb{I} j quu|cdd c h $\tilde{A}r$ g. ²u j c c x^am^av²tk= p^an \mathbb{P} pm

r g f k i c | q n { c p » n g n | c r c f p ^a p c n 0 K v e u c m c | w l q m e n g u /
 p g m p ^a n w p m r g f k i n ² u u g n x k n ¹ x c r 0 J ^a v c | l » u | q n ¹ u ². j q i { /
 c w v ³ t p g o g u c u u | q p { q m o g i h ¹ a m c | q t t q n e v. ² u g i { p c i {
 g | A u n e t k n ¹ v x q p p e m d g n ². x c r o k p v c h ¹ d g x c n » 0 C | q t u ^a i
 d e p n ² x u | q n ¹ u v n g m j ^a v o g i w f p w p m j c c t t » n c n e t w p m
 ¶ ² p k 0 V e r ¹ o o ² i n g f c | v c u | q n ¹ u v u g o w f l c. j q i { j c
 g i { v ³ 4 ³ 4 n n ² v e u ³ 4 ³ 4 v ³ 4 n ¹ 4 g m w r e v c | ² t v c h g r u ² i k p g m u | c /
 d c f r c p e u | v y g p p k g n g p g c d ¶ » g n w A O q p f l w m j ^a v j q i {
 c l c p e u ¹ t c i c m ¹ f j g v g w x k ^a i q v = o k g n k w u | q n ¹ u 0

I XCF f P [KL̃ \ UGHI T0

1947ô n 2K

GI [HCNWUKP~ Vf TKWUP CMDWF CKWVC\ f UC.
 OGN[GV.. PP.. POCI C CDDCP GUGVV XKU\ QP VCI /
 Uf I CKXCN GI [@VV C\ GNCNWF VX! T O CI [CT
 U ~XGMHGNUGTMGP V! U TG! UO WNCVUf I f TC G
 XGTUGMDG HQI NCNV

*T²u| rgy0-

Gru t²u|0

Co gn{dgp c u| gt| nksu| k nkri {gp. j qnrnlpq²u o kqntc
 xcn» p²| xg v4ri ngwg gn o ci^adcp Dwf^atc gm gppk0 O knr r r gp
 nr u| An hgn²u o knr pv kpf wv nk j^a|^a»n gn dgu|²rk²u o kpf gp
 v4v²pgv|gkv gn u|^a o n̄ rlc. xcrco km gu²pgm o kpf cf f ki . o ki rrp
 Vku| c/HAt gf v²tvg0

Vgnr pvgvu. pgo gu U| cw^at x^ato gi {²dgp.
 C ngeugi²u U| co qu x|| pgmgo gp²dgp
 Ncn̄ uqo²p pgn̄go xcp P ci {/Rrgunr̄ dgp.
 P »^v tkwu xci { qmgppgmj gn{u²i²dgp0

J ¶|gu Dwf cx^at^avo²i uqj c ugo n̄ wco .
 M̄»pkn̄ dcp t»rc d^at uqnevqrxcuco .
 f | wvj qi { n̄ vj cuuco . o kpf gpnqt n̄k^apco .
 Gnku v4ri ngwgo qf c vppkwco 0

Gi { l»hqto c rgi²p{vvcn^ñnco gi { vcp{^ap.
 \ uñqu lpi dg)qnf cmj gxgtpkc dwpf^ap<
 J^av³p xqnlwj d td nhngv^g nœeci^ap.
 Gi { r^at n^ñti guj cdf^amc n^ñvri^ñdc ul^at^ap0

Kngp l» pcrkd^a v/c. p²nkñ { n^ñ4ul³pvg0 .
J q/w Kngp ngf gv hngv^gv²xgvg0
 Ul^am^ñuvn^ñtvg0 . cfqw<c| | cnrnp{gti gng0 .
 Ku^anqo p{gti guv^ñnc h^ñ4f tg ngvg0

Oñ c nqxc0 h dg n^ñ4³4vg0 r^ap{x^atc.
 Cnœul vqwg i { dqj t^aeu j Ævvc ul qni cl^ñtc.
 O gi dqtuqnc. u xgtguj ci { o^avo gw| gwcttc.
 M^ñtv. j qi { co ñ o gi h . Ængmc ul cm^atc0

Gi { ul²r hgl²t ekr »v. qn{cvo l^ñvner^ñ euqv.
 Vgwc dwpf^al^atc0Hqi vc c dqj t^aeuqv
 Gi { l» t^a|^auv²x²p=f g kn{gpvnr^ñvqwa
 O ci co pcmku ul go go o gtgf vxqñ. u ul^ao v³vqw0

O gtvc| gi { t^a| cuu^an o gn{ j Æ xqnlhgpgn^ñp.
 Gi { dg hgn^ñngugw. xcrc c vgl²p.
 Gi { fctcdqeun^ñ ku h^ñ4f tg ng pgo gux²p.
 Euqf^amql pgo ngngwc i wn^aupcmvg²p0

Co gn{ j Æ hgn^ñArt ngugwc| cl^ñtc.
 P {gtu xcrc gi²ul ngp. crki²tvgr^atc<
 C hgn . o gn{ gugwgppgmc j^av³tc.
 L»no gi h w. Ai { vgw| gw. j qi { p²|gmt»| u^ñtc0

O qpf c i wn^au<Wco #K0 o^at ngj gvgppk
 G| gp r^aul vqt²vgnv^gul²u²tg ngppk
 Hqi tgo²p{rgo . c|²tvcd»nvgu²mxgppk
 Kvxcpc ekr » ku. c| vku o gi ngmul gpl0

Lqdd ñ v²ngo dgp²p gpp²nggo gwgo .
 Uqncv^gx²p cdd»n o cl^ñ o gi dgvi gf vgo .
 C|²tvc mœœuqvnr^at»nr^gxgwo .
 G| gp l» ul cm^ñeeucnñ^ñAtguñvgwo 0

L>nkxqwc i wñ^a u= o gi v^{3/4}n² r k^a l^a v.
P² n^{go} ku ul ktqp { qu. ucncpi qu | ceum>l^a v
P { Ævqwc. c | w² p o gi i { Æv^a p vcr n>l^a v.
Rk^a o tc t^a vgw gi { fctcd qtu l^a v }

F g ¶o g#O gn{ pci { qp u ul ^{3/4}p { gp o gi t² o Æn^{go} .
C | ¶² ngvpcr l^a v lgrgp ngppkx² n^{go} .
O quvo kpf l^a tvx² i | f km c | vi qpf qnco . ² n^{go} .
P g j ci { lqp o gi ^{3/4}pk<c | Kvgptg n² t^{go} 0

C xcf i wñ c hgr² o qtqu l^a p { d i ² ugn
Hwxc l^{3/4}w=k | cf vco u xqnco klgf² uugr⁰
O kpvul ctxcu. c wñ nqml^{3/4}wgmqr⁰ ul ^{3/4}n² ugn
Hctqnev hgr^a p { v^a mhctmhgrgo gr² uugr⁰

Hgrwi tqwc i wñ^a u. g | vgtkncpvc<
Pgo qf c < c i wñ^a v. j qi { ¶ { ul >> ¶² qwc.
O kpv c m hcn gi { dg Æi { o gi ^a n² qwc.
Kul qp { Æd i ² u² vigeukncr ¶² qwc 0

I ² o gu n² d>n vgrg v^{3/4}ng x^a n>lqnev.
M² ^{3/4}un² Ænhqi v^a mc dco qmc | qncv⁰
! u. j qi { grnqv^a mo ci qmul qo lwj qnev.
U>j gn² gntg xgv² mi { qtucp c | Æv l>n² v⁰

Cmqt v² t^{go} ² p ku gul go j gl . o ci co j q | .
O kpf l^a tvgnku o gpvgo r^a p { x^a | qwrqxc o j q | .
Hgr² ul Æx² p. ul >> nco ² p i wñ^a u i c | f^a o j q | .
O kpf gpvo gi n² ul ^{3/4}px² p hqi vco c | wco j q | 0

Gi { >t^a vj cncf x^a p. nkrpe dkn² v hgm xg
Vcn² nco Ævo gngw= i qpf qnco < o kpf o gf xg+
f tr^a xcnl>nrcnx^a p j gxgtvgmn² t f xg=
Xc² mc i wñ^a p^a n<xqnco kwk² gf xg 3

O gtv² r r gp gn w^{3/4}nco kpvrxco j^a i qw.
Hgr² mc c j^a to c. n² dqml^{3/4}f dg x^a i qw.
D^{3/4} o d^{3/4}ngm o wcvqwul go gm v | xk² i qv.
Tgeugi gwc ul^a lqm dqj^a eu i >t² vt^a i qw⁰

C| qpdcp o² ti gupg o gi t^a | x^a p u| ct^xqnev
 M⁴ gn^h4f u| [¶]p² j g| xkv² m mc| qnev=
 Fg j qi { hgr² o l³ppk¹ wco o q| f wmwnev
 Dg pgo x^a t^{co} j q| |^a o xcn» grlwwqnev=

J cpgo h^kku^gp ner wco n^{ep}v³ t^{qo} p^{cmu}|^a t^a v.
 O gi eucr nq| wco c| | c^{hcm}»o p^{cmc} h^t^a v.
 Qif c¹ p^{cmx}g^{vgo} c u^{ct}n^{ep}v⁴ ^Àv^t^a v.
 J qi { l»nu| c^{mf} j cuuq^p. pgo j ^À wco ci { c^t^a v}

O gpvgo . o k^{pvo} gj g^{vgo} =f g j c¹ k^{gt}² v² m
 ©^v4w^{nk} v^{ugo} gp. j qi { j^a t^c v^{gn}k^pv^{gn}κ
 U^{ct}n^{eo} dc c d^{kn} m o^a t c^{rk} o gj g^{vgn}0
 Euk^m x^{qnc} h^{cm}»o . h^{gr}^a i p^k n^{gl} f gⁿ0

X² t^{gu} v^{cl}^v me^uq^{ti} q^wh³4f t^g | c^{df} l^a t»n
 J^a t^{qo} r c^m»v^{ku} o^a t r^{gt} ^À q^wl^d^a t»n
 G^ul c^{mf} v^j g^xg^f g^t e^u ^À i ³4w^vg j c^u^a t»n
 U l^kv^g n^{gh}q^{tf} w^{mco} p{ g^{ti} g^uv^À j^a v³ t»r}

K^{vl}w^c ² r^{vgo} x² i u r g^{te}g^p² t^g.
 I q^{pf} q^{nc}o <o ci co p^{cmu} n^{xco} p^{cmc} x² t^g
 D^{kn} m»n^{qpc} v^{km} u o q^{uv} k^{vj} c¹ n² t^g=
 Fg gi { p^{ci} { l^{wj} p{^a l^j q| ² t^{vgo} u| g^{tg} p^{eu}² t^g0

Gi { l» gt u l^{wj}^a u| n³ v^l» d^{ql}^v t^l^a x^{cn}
 J cvgt u. i c^{dc} p^{equ}. ³4x³4u m^w l^a x^{cn}
 .. t|² g| g^p p{^a l^a v^hqⁿq^{ud}^a n³ l^a x^{cn}
 U² v³ n^v n³4 ^À n³4w ^À n³4n³4u j c^l^a x^{cn}

N^a w^a p. d^{kn} m g^{pi} go . j qi { o kⁿ p^v ^À r^f ³4 p^{gm}
 J c t^{cl}co pgo ugi [¶] w. o q^{uvo} k^{pf} l^a t^{vo} gi ³4p^{gm}κ
 Gi { p^{ci} { q^{vt} k^m e^p q^w. m^{tl} c# g^d g^k p^{gm}
 N^a v^o h^{gr}² o c| q^m u^{gd} g^u h^w x^c l³ p^{pgn}0

K^vg^p c m^w l^a m»n d^{kn} m»n^{ku} l² n^{go} =
 O g^{tv}^a o l³ p^{pk} n^{gv} d^{kn} m^j gⁿ { g^w x² n^{go} .
 Co k^p v^C m^g q^p l^a t^v. ^À i { l^a t^{qm} [¶] v² n^{go} 0
 X^{ci} { gi { v n x^{ci} { o^a u»n^j c¹ n^{qo} t^{go} ² n^{go} 0

F g xep c| gdgmpgmpci { rj cpv^a uk^a lc.
 Guo²tkm o leuqf^a u c| go dgt hqto^a lc<
 J c go dgtpgmxc i { qp c xcf f cneuc^a lc.
 P go gpi gf km xcf pcmj qi { r^ai { gp r t²f^a lc0

.. ku dql^a tkxcnhwqw² u ulgvw.
 J co ct o kpf c j^a to c o gmwgo ku vgo gw.
 Wu| w#Mqto qu. Verr cu. Dqf tk Ucl>. F gtxgv.
 T clvc Nqo r qu#P² nkmlk{ gp dk^a vc^a uvvgw0

Gro gpygmo gmwgo gdgmpci { hw^a ucn
 C dkn^a nev² tx² p ngo² p { wi cv^a ucn
 Nghqtf {v^a mt>rc o u| 3/4p { u| cxf^a ucn
 Xku| cv² tvmg| gmngi { gwgp o qti^a ucn0

Qu| v^a p o qpf c lwj^a u| <pkpeu o guu| g u|^a m^a uc.
 O gpp² mxgrg. ngu| qwvugvo pgmp { wi x^a uc.
 Nqxc o pcmku cdtcm u|² pc. l>^a m^a uc.
 P kpeugp vcp {^a l^a pcmn^a 4 Andgn no^a uc0

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C Vf PET~ N

P qu| c rgi² p{ c v³ pedc.
Kvc r^a p{ u| gf f t^a pedc.
Wi tcut. hqti cut. o kpvqtu»v.
M³u| ³puf tg^a c nqtu»v.
G| c| ²rgvi { ³pi { ²rgw#

C uctnepv{ Af | ³4³4 l³p.
H p{ gur cwmf f ³4³4 l³p.
Mg| gf. n^a dcf o q| qi lqp.
C rglv tg j clw|qp.
G| c| ²rgvi { ³pi { ²rgw#

Cj qnc u| ²r o gp{ geung#
P qu| c pgnkx²p ngeung#
Xqpf c v³ pedc. l»n^a tlc.
Vct^a v hct^a vt^aku^a nlc.
G| c| ²rgvi { ³pi { ²rgw#

Vg ku eukr^a u x² p dcp{c.
Xk^a i o gi wpvcuw| qp{c.
O gpl n³4 knlg. xki cf l^a n
Gi { gvngw vwi qt l^a n
G| c| ²rgvi { ³pi { ²rgw#

F W QP ÆUCPFT f U

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O C I [C T R' N F C D G U \ | F G M
: U I G N G U O Q P F f U Q M E O O © X | D N

ftvc xcti^a pcm

O k f p x c r c o k ² v g r t n x c i { k c r t À n c | v o q p f l^a m c d g v g /
i g u p g m j q i { p ² n k ^a t v g t t g c | v u l q m c h g r g p k < ì f t v c x c t /
i ^a p c m ì c | | c n g p { g r g i . j q i { i ^a t è c x c t i ^a p c m n g | g k d g k r k n 0

P g o À i { x g t k m p^a n p m c e k i ^a p { v

C d g t g i u l^a u l k d ¶ » p c m n x ^a t c h g m e r q w g i { e k i ^a p { 0
C r e w c n x ^a v o g i ¾ 4 o g t x ² p g i { x ^a u ^a t d e p c d ¶ » . g i { n g | ² /
x g n c n e p v ³ t v o ^a u k m e n d q v ^a v n e r x ^a p . n g u g t x g u g p r ^a j q r c
c j ^a k d t v 0 G t t g c v q r x c l < W t c o * À i { o q p f + p g o À i {
x g t k m p ^a n p m c e k i ^a p { v 0 J ^a v j q i { A n ð t f g l ² c d ¶ » 0 O k p f
c n ð v n ð | | g n * h g r g k e c e k i ^a p { + 0 G t t g o g i d q u l c p n q f x ^a p
c d ¶ » . o k f p c e k i ^a p { v n ð v n ð | | g n x g t p k c n e t l c . c n e p v ³ t v
g r g t g u l v g w g ² u c d q v v n ð v n ð | | g n h q i v c g n g p g 0 G l v ² u l t g /
x ² x ² p c e k i ^a p { . g t u g p o g i u c t n e p v { À | c c n x c v ² u u l g t g p /
e u ² u g p ð d g n g r k m e p v q w 0

*J q n K a g p p p g m v g o r r i q o q v ² r ¶ g p g m q w o k p f l^a t v c | ¾ 4 f ¾ 4 p g m k u
n ð r q p ^a v ^a n ¶ c p c m*

G l g p ¾ 4 f ¾ 4 n ð r q p ^a l^a p ² t v f k m c n q e u o c . x c i { h c w
d c p c e u c r u l ² n 0 C v g o r r i q o q m o g n g w x c p p c n 0

J cvj^a / pgo hcnw

Kc| ku. o gtv xcp gi { o g| x^atqu. o gn{gv J cvj^a | pcm
pgxg| pgn0G| vg^av pgo hcnw0

Xcp o²i c p{Àp^a nku h^ar^a pngdd

C i qpf qnwen h^ax²p o ci qm hgn n c p{wcm j qi { u|²rgu
g xk^ai qp plpeugp p^amp^an h^ar^apngdd^anev. o ci qnev gi {
wdc cnetl^am xcrc xgu| vpl0 Ok p cpcm grgl²tg u| cncf vcm
j qi { o^at/o^at dgrwi tccm²u| tngxw²m j qi { v n^am c d²n^am
o gi klgf vgm²u c wdc w^atqucn0 ô O gi^a n^awpm ô o qpf c
gi { 3/4gi p{Àn ô p g c d²n^am h^ar^apngddgm o k^an^amp^ar0
O^ato quv^{3/4}gugdd²ij gv^apn#

X²tt² x^ankno kpvct^a vdc p c rgeug

C| v o qpf l^am O^av^au nk^an{wpm hgn n j qi { n^av dct^a/
qv eucm c|²tv |^atcvqw d² u| qd^akpcm gi { kn^adg. o gtv p^arc
gr^{3/4}l^at>lqm grgp c| v o gtv²m o gi rcpcl| qpk j qi { ngv
3/4m^a rgeu²xgn vctvc0 G| grgv c nk^an{ gi {/n^av per o gi/
nqr rncw^ap. jcto cf per tc rgeu²v cf cvqw p²nk^am o gi rc/
tcpeuqncw^ap c rgeugj qtf» kpcupcm xk^a{^a| pc c l^avgtgntg.
o kv u| »mp^apcm gi { Àw0 G| gm c rgeu²j gl j q| |^an^aw^ap. c| v
l>¶ gp o gi gw²n0 J qi { c| kpcu *nk fg^amwn pgo wf qwt
u| cxqnev o gi pgo²tv²p². c| v o qpf qw^am o ci {ctqu fg^am
u^ai i cnc Xgtg x^argv c| c| < dk qp{ l>0 G| gn c u| qni c wt^a/
j q| xku| co gpx²p. c| v o qpf qwc p²nk j qi { c dct^avqm
l>¶ gp o gi gw²m rgi { gp c rgeu²v. u| Àpgv²p c| v o qpf x^ap.
j qi { x²tt² x^anv dgp^an0

Pgo vctvj cv^{3/4}m^a. o kpv c n^axckngo gpeg

C n^axck d^am gj kxcwewcm Rgust^an gi { ngo gpeg^a n^av
nk c x^atquj^a|^adc h^{3/4}n^aqwc c ft^ai c ngo gpe²v0 Fg rg ku
f nv c| qp²llgn0 O gi jctci wf x^ap c d^am v rg c Kgf r^aupgm
qn^av n^atf gl²v n0 gttg eucm c| v hrgng. j qi { pgo vctvj cvqw
3/4m^a0C vgd²tgf ku *o qpf^apcmc| qm^agi { r^{3/4}egp²uki 0

M' uc pgo 2 vgm

G| v c u| excv ²vgm xci { ²vgn pgo ki gp u| »tqi cvlc c o ci {ct
o kpf gp grgf grtg. j cpgo o kpf gi {kif v o ci c pgx²p pgxgl k=
r²rf^a w< Cff gn c ngxguv c vj²pj Àuv. c i qo d»eqv0 Euw/
r^ap eucm gi {jgl tci cu| vlc c| ²vgn xci { ²vgm u| »v. Ai {o kpv<
Cff gn c vAt»u²vgm c| cñt i cñwunc. cñt o gv²m. xci {
cñt o k o^a u ifi {gp0 C| v vctv^am vj^av. j qi { c o ci {ctpcm
eucm gi { ²vgg xci {qp0 L»n o qpf l^am vj^av. j qi { c m' uc pgo
²vgn o gtvuqj cug j cñepk< j q| f d² c m' uc ²vgn0

U\ GP VLQDKU\ CD~ Nf U\ N~

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C\ GI [©I [RCTCU\ V

Co qwc j gi { gmqrf cñ^a dc.
Gi { nku o gl gkhrneun^a dc.
Gi { h²af gu wcu^a i rcnq| qw.
Mkgi { ngx²tg x^atcnq| qw0
Uj qi { o gi nr lc c| k gpgvgv.
C r qu^atc m²af gi { n²xgvgv.
M²pgmo gi ¶²t l»^a rf qo^a uv
Eucmj q| | c j co ct c| vc| ¶^a u0

Uqnev²gu| gi { keeg dqt^a tc#
C r ctcu| vku hwc r qu^atc.
Un²tf gl ngxgrvc| w^apcm
J qi { c| vnk^anj cuuc o ci^apcn0

C r quc cñ^ax^ap ngw tg.
Mkctvc c ng|²vgn tg.
F g R^anpgo wf x^ap c|^at^aj q| .
J^avj qi { cf lwnAô u| »nc r qu^auj q| 0
C r quc o ci^avgrpgxgk
i Up»e ntclegtë ô gl c hgrgrw0
i F gi qi { wco #c o²tgi ft^ai c.
P²i { ntcle^at ngul km x^anu^ai c0
P { qre ntcle^atAg h²npcr u|^a o f klc
H²no ctl^au eucmgi { nku r²p| j klc0
J ku|²p o gi h²gvgmo dgt An
G| Ai { ku c u| go²vg ngt Arë

ì | p. o qpf g| . pgo nupvqumhgrg.
 Mgvp»e ntclegt eucmpkf c hgrgÙ
 ì Gpp{g pq. j cvqvcf qm²tvg.
 Vwf qo kn f t^a i^a p o^a upgo n²tvG0

Fg g| vo gi cf qo c| wtco²t<
 Mgpf ug r gt gr gp n² vntcle^a t²t0
 P q hqi lc ngpf Ù C r quc gttg
 T^a p² | g| k i^a i c go dgttg.
 U^a | { hgrgnmqo qt vgnkpgwgn<
 ì P qe ntcle^a tk cmt»vvgwgrÙ
 P q. o qpf Rcm». ²p o gi x²f j gf vgo .
 Mgp{gtgo pgmlcx^a vo gi gwgo .
 Uqncvdgxgwgo n²4| ³pgwgn
 P go xqrvdclqo eucmg p² o gwgn=
 Ugo o kvugo gpi gf c ul cx^ad»n
 Xgi {gp c rk²te c dqm^ad»r0

C| qpdc) j qi { o^a t o gi hk gygw<
 O ki c r quc l^a tvu ngtgui gygw.
 Ncuuceun² p c| cu| vci j q| o gpv
 Xci { n² vrgxgrgvkpi {gp greugpv.
 Uo kpvnkul² p^a l^a vl»ntgpf gr² .
 Rkr^a v²4vudcmci j c| chgr²0

C| wtco kj gn{ guvo gi n² vl.
 M²tf g| kv rg<pq R^a nd^a v{c.
 J^a vner qwnngpf o² i ku rgxgrgvA
 Wl {/g. j qi { gn³4vc hgrgrvA

ì G3^a o . fg wtco . o gi x²p ãngo .
 J qi { o² i Ìi { ³4| xg pgo ngt ãngo =
 P go xqrvkn^a tc c rgx² rpgm
 O k»vc eucmgo dgtgm² rpgm
 O knqt n² vnku ugo o krgx² r² tv
 J ki i { }nc| wt. j qi { p{ qre ntcle^a tvn² tvÙ

ì Lcl ngpf c r quv² vpgo kuo gtvg.
 J ku| gp Ìi { xcp c| qtu|^a i ul gtvg.
 U| cdqw^a tc xcp qwo kpf gppgm
 O^a t qf c eucmhk gpkko gppgnÙ

ì D^a t ku wtco #f g pgo l>nvgwg.
 Mkc| vgn| dg. o gi hk| gwg.
 O gtvgnku n² p { gugf kmxgrg.
 J c o kpf ki gmrgnc rxxgrg0
 Fg² p dg| | gi . j c o gi hk| gwgo .
 C| vc p² o gvgvt^a ku u| gf vgo 0è

ì J qi { j qi { Aè Lcl o gtvwtco . c| crw
 O k| qwc r quc l³/w o gpv u| crf v
 O^a t c| Kvgp xci { ^a rf . xci { o gi xgt.
 Fg n² x^a p. j qi { cpp { kvo gi pgo ² t
 O² i j q| | ^a nr vco n² vrgxgrg0
 —i { /g. j qi { g pci { qdd go grvA

C| Àt nœci . u n² tf gl kv rg<
 J^a vo^a t Rcm». o krgu| dgn rgA
 G| o kpf ngw c o^a u rxxgrg.
 Fg nrgpf c| v² p o kveuk^a nxgrgA

ì Fg dk| wtco . pgo o gi { g n² tdc.
 O gtvxcp gi { ³/e² o Hgl² tx^a tdc.
 Mkvgl gn wn² vgu| vgpf xgn
 Gi { xgtdwpmqu grxkvgt xgr0
 L> rgu| p² nkcl gi { kmrgx² n
 Uo gi k gpggo . j qi { c| Àt ku² r0è

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U\ GTGNGO FCN
C EUKM D T U MNCEU Q\

Ft^a i c nkpeugo . i ciro dqueun^o .
Eukm^d t³u nwceueun^o #
! tvgf j cqm² tvgf² rgm
U^a | r^a p{² tvpgo eugt² rgn^o

O gi xkf[¶] qte^a eun^f f cv
Eu[»] ntc v^g to gwngtgm^u ^a f cv
J c c u^a o j q| u| qt[¶] j cvqo .
\ uw| uk² v^p go eu[»] n^u ni cvqo 0

Qj j qi { n[»] vⁱ c n^g d^g r^g f .
O gn^f d^g p u| ¶^x go gv^x k^u r^g f #
Qj o k^f gp u² r c| clⁿ e^f .
Uctcp{ n^f petc o ² n[»] p{ cⁿ e^f #

Mcteu^À f gtⁿ e^f qp c x^a m
J cⁿ j² l p² m^À ku u² r gp^a m⁼
Pco ^À { ^a o . o k^p v^c O cpe² .
Xci { c o cl^f o gi o qp^f ^a o nk² 0

U² r c j cl^f u² r u^a r^e ku
J c nk^u eukm[»] j q^t f q| v^e ku
P go cⁿ e^u | v^q w^g o d^g t j cl^c .
O k^p v^c V^t ² | kt vxwⁿ k^c 0

! f gu c vg f cpqif^a uqf .
 L² teg hqto c nqwf{ qi^a uqf <
 Mkw{ nqwf{ qf Äppgr k² pgm
 DÄu ul ¶xgo pgm ul gi² p{ n² pgn0

J c d^a p^a vko n²/₄ n²/₀ x² rgf .
 Gi { ul »ftc rgmgo o gi² rgf =
 J c l» mgf xgo euweuqtqf km
 f ncrf o gi ul cr qtqf kn0

O knqt j kf gi ul grgm^a i { pcm
 Grkgul gf o² ti² vc hci { pcm=
 ! u o knqt c j² x p{^a t rpn^a ul v.
 P² ngo vg o gi htku¶xgf c| v0

Qj j c v² i gf pgo n² vj c vcm
 Dgj »j clvcm dgj uktc vcm#
 Uj c n² r gf ngl go dg c ncf .
 U go go d n³/₄ n³/₀ n² pp{ hcncf 0

V² i gf j qtf q| ncmÄco dcp.
 V² i gf ³/₄ grgm^a i { c dcp =
 ! u xcrj^a p{ ul qt hgmrgm
 U gtgrn gf t n² pgnrgn0

Gi { Äwdg uqmul qt hgmÄf vÄpm
 D^a t uqj c o gi pgo gumÄf vÄpn#
 C| ² llgnku) eucmo gi kpugo .
 Gi { Äwj^a nÄpmÄi { /² nkpeugo A

Qj j c ul ¶xÄpmul gtgrn² pgm
 Mku|^a nqi kul Ärgv² pgm
 UqwÄp² pgmj quul Äuqttn
 C mwem»dcp vgrg dqttc#

D^a t eucmc hgrgu² i go o gn
 V² i gf eugt² nj gvp² rgmlgn
 J qi { hcnev. rg^a p{ qnev
 U Äp² n cr t» mwreucnev<

\ ucp^a o o gi mwceeu^a x^a rnc.
 Dqttno kpfki ul ¶ki^a npc0
 C| d tg Æi { kuukm}.
 Dgrg h² tpg p² i { /³/₄ cm}0

F g lcl. gpi go kf g vqxc
 Grkkl c U gpvO kj^a n{ nqxc.
 U| gtgn gf o gi go² ul vx² i tg.
 ! u vg o ctf ul ³/₄ xgi { u² i tg0

Mgugtxgu uqtu# Cf lcvmdqt v5
 Ncnlwmngn tg c vqtv=
 Co ko gppg o^a u mw{^a dc.
 Lqdd o gi { c o ci wpmvqtn² dc0

Cnef vco o² i gi { dcpm}tc.
 Mkvul^a pvc o ul go dqt¶}tc<
 F g xcm^a i wnnko^a t pgo h² n
 O kpgmcppcmc ul go hgf² nA

Mpeugo . xkq² o . twdkpvqo #
 Kvc| wqnw} hqtkpvqo <
 ! tvgf cfqo gl vku. wd^a o #
 Eucmul^a f j q|² tj gugp c ul^a o 0

Qj eu}nqncm qj ³/₄ gngn#
 O ¶i o qeepqm o ¶i ngj gngm<
 Vgugf vgi {² mj qmwugvo j gl .
 ! u gl vc| ¶i^a uvhglgo j gl <

ì Wcu n² ul ³/₄ pl t^a o gi { r kpvdtv<
 ì Kv² ul p { wi qf pkgi { l^a o dqtv
 ì Mgf xgu² rvg/r^a t l^a xcn
 ì Eukm}d t³/₄ i mwceeu^a xcrfè

FQTQVV[f D~ N

ì X^a tco . uqnev^a tco . c| vppo o qpf j cv^a vqm=
 X^a t^a uqo d² t² vj^a vo² tvo gi pgo cfl^a vqmA
 O kpf² i l> j ku go dgp Ñngo c| cf xgpgv
 J qi { v³ p vgu gi { n² t p^a rco nqo rko gpvg=
 C lctucpi qvo kpf² i v^{3/4} n^{3/4} ngo x[¶] i uⁱ i cn
 J qi { v³ p pgo i { 3/4 v^{3/4} n^{3/4} d² c n^a p { uⁱ i i cn
 O kv² tvAP go ku x² ngo uo^a t kwxqnvj Ñuj ci { »
 J Ñuj ci { »# j Ñuj ci { »# gpi go kvj qp j ci { »#
 O kxgn² tf go rgwgo Agi gn[#] vi { cp o kxgnA
 N^a o rgwxqipc o kxgn eucmrgwxqipc nkxgn0
 Ugo r² p |² v ugo gul² v² p pgo p² | vgo xqipc.
 Ugo pgo² v ugo n² r² v = Eucml² thkrngwxqipc0
 O qpf vo . j qi { cñ^a tnkr² i { gp . j q |^a o gi { gm
 Mg| gveucr qmxgrg . eucmrg^a p { pg rgi { gn0
 Dqrf qi cdd l² thkA pgo rgwxqipc . o kv^{3/4} <
 —t^a vgw xqipc 3/4² vgi { h n^{3/4} 0
 J qtf vo xqipc o kpf² i ucl^a vvgp { gtgo gp.
 Eucmn^{3/4} p { 3/4 Ñvwxqipc r^a t³ v Ñpvhlgo gp0
 F g j k² dc# o² i ku gi { ugo l^{3/4} vgu l² tg<
 Dg dqrf pf xqivcnk gpi go o gi pgo n² tg#
 Cn² tnkpgm² txc xqivul ¶ xgo dktvqnc=
 C |² i . c l^{3/4} f wflc .² p pgo xci { qmqnc0ð
 Uqm| qt x² i ki p² | vgo g| vc xk² i qvo^a t
 C rgi² p { gn wgo Ñqp/ Ñl² rgp l^a t.
 C l² thko gi cpp { k o kvpc| cuu| qp { . n² vqo <
 O² tvpgo lwj^a vn^{3/4} v^{3/4} mp² ngo gi { ucl^a vqo A
 O² tvngmp² ngo kn| gp d u² i dgp ul m² Ñpk
 Uu| qo lcp c n² f / x[¶] | dgp Vcpvcmun² pv ÑpkA
 O² tvcm² vqwc|² i cuu| qp { pcmgpi go gvA
 Xci { j^a vo² tvgtgo vgw l² thkA pgo gvA
 J c cuu| qp { pgo xqip² m xci { l² thk pgo xqipc.
 ! f gu dqrf qi u^a i qo Ato 3/4 pgo n² uvqipc0ð
 F g ¶ p² ci i u^a i dcp go² ul vgo per lcko .
 C | kf xngni { Ñvgtlgf pgm² ¶ lcko .
 Mqo qt o ci^a pqu^a i hpp { cu| vc² ngo gv=
 Uo² i j clcf qp h xngn ngo gvgpi go gv0
 J qi { p { Ñv » | vcpm² nk j qi { o gi { gmr^a t³ dc.
 Qj . o clf c ul gpvmpgm Rctcf leuqo^a dcA

Qj . ul²i { gprgvo dgp o gi ngmj crpgo qwku.
 O knqt x²p n^ap { pcmo qpf gi / j kx^ap { j crqwkū0
 J qmqwko² o quvku g nku v³ tucuf i dc)
 Cpp{ku| qt ngxgtkmc| go dgtveu^h i dc0
 Cp²m^hnggo gugwgi { v³ pe xci { gi { l^a v² m
 J qi { kngv²gp f qri qv. xci { o qeunqvp²g i^h v²n0
 J^a vo^a t. j^a v^h { ngm²pp²ngo j qnki² rpgo A
 J qi { ul gtgrgo j gn{gweu^h qvngmtgo² rpgo Aë

Qr qt. j qi { o^a t x²i² vxguug c eucv³ pcm
 Gi { ^h utecvi² o^a vi qpf qv^hnko ci^a pcm
 O gm{gno kpf gp vtr r qv| t| cxtcdc vgi { gp.
 UF qtqw{c. c xgl²t. v²g gvgv²gp i^h i { gp0
 Cpp{ku^hmj cv^ho cu ul go o gn²u ul cdn^a xcn
 U go n³4 v^a nx^a p. ^h { ul »nv^hgn² i gu qte^a xc^h
 i J crcpf » cpi { crqn#ngf xgu ul² r gngpu² i #
 Mkn²gdgpp^h pmtcno kpf gp² t|² ngpu² i .
 Mkm^h x^a p ul ^h ^h pngvc vgo² ul gvlwuu^a p.
 V³4x²p { vul cdvmpgm^h pmul² r gui vgm^h »pw^a p.
 J qi { gngp^hngl j gvp² pmvx^a dd vx² ngv^h A
 Kvc n³ | #Kvc ul ^h #eucnj qi { d² n³ rlgv^h0
 Vwf lwm o k² tvxci { vqmj etci dcp gt^a pwpm
 O gtvx² ngvmpci { qp j kf gi n³ r gp d^a pwpm^h
 P qj^a vgl gp x² v^h pml »x^a v² v^h tg
 | p. o kv^h c hctucpi kv³ dqt h xgl² tg.
 O² i o c gi { nkucuul qp { vn^h k^a pqm^h r gppk=
 U wf qo . xk² | ko ku o kpf ^h { hqi pcmv^h pkl0ô
 F g² p cppcmcf qo eugt² dg ul ^h kgo gv
 Cnkrigi gn ul ³4 o gi e^h »nqngpi go g^h
 | f gu nqv »u cp { lqmg i { nqv^h qi^a u³ tc
 J qi { hwc uqmeuktng gi { ul go i cdqp^a tc<
 O kpf gp nkucuul qp { qmcm^h pv »f w^h pcm
 Ngi gnu e^h »n^a tc Qr qt qte^a l^a pcn0ô
 Ugp^h nkugo ^h { gnvo^a t |^a ul n³ tc. xci { uqtte<
 Kngp j q |^a f l » tgp^h #j cl fg o kpf Qr qtte#
 U kv^h ^h { t^h v³ mgi { o^a u ekr gm lg uctn^a v
 Vcr qf v³ m j cui cw³ mgi { o^a u urgr lg hctn^a v<
 C | gnu mj^a v^a n³ mc | wqro gp ngv
 C j^a wuu »mxkuul cj ^h v³ mc | gnu ngv<
 N^a to^a | vcm | cli qvcm r qthngi gv xgt vgm

Cu| vcn. u| ²ngv. d i v. elo dcm qvngxgtvgn0

V³4vc r qj^a t. r cirem³ p{²t. v³ nec eu³4i ³4w=

Wi cwenc r wf rkm cl». cdrem| ³4i ³4w0

Kl^Àn[?]pvu| craf vmo ²i c x²prcpqmk.

Ugo j cfpci { . ugo uxctqo . ugo tgpf0U vo ci qmku

C f k^a pvgo gn u| Ñ gmgtw[?] pcm

Ung| g. n[?] dc nk³4vo ctucmF qtqw^a pcn0

HC\ GMCUO K f N

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NWFCUOCV\ K

*T² u\ rgv+

F^{3/4}dt^{3/4} dgp xcrc j^a vgmqt x^a u^t. c j cvcm cu
F^{3/4}dt^{3/4} k^À 3/4^{3/4}4^{3/4}l»u^l aⁱ a^dcp. nko ci^a t»n
C| vctvqc. j qi { qwpgnk^c hgn² i ug r ctcpeuq=
Co kvcmctv. c x»v^{3/4}4x²p{. u vgw^l 2ug ki c| u^a i 0ô
C r qt^v n^l npcmo ci c u| qmc nk^l cdpkc| a^t v.
! u co gn{ fctcd² tv^{3/4}4dgvo gtvn² vpkc| a^t qu.
Gmuphu^l n^l ncwc. o gi ku d^Àpv^{3/4}gw ngo² p{gp0
J qi { j c r gf ki pg^v p o^a u qre»p xgwo gi cni to kv
! upgnko gi vgw^l gw eucmc| 2 tvnkxgvgwg dgn ng.
J qi { hppvct»f lqp hgi { xgttgnp{ gtv uklwuoc0ô
Co kvF^{3/4}dt^{3/4} k^À gmq^t u² v³ r cni u hgn
C o kO cv{ kpm² u c u^l 2 r j ^Àu^l rkd^c v pg u^l go² dg.
Cp{ kxcnkpm^l dd. o gtv o kvf gp u^Àxgi gng u^l go² n^l 2 v
EucmO cv{ kpcmxqivh³pp gi { gf ^Ànc h tgxcn^llc0
M²tf² c| ^À < i Mkg^l gp n^l f cmi c| f^a lc^À è i O ci co r^c#
¶ { u^l »mqwpci { p{ gtu/p{ cncuqp O cv{ kⁱ Gp{ g i c| go dgt#
P go wf qf kvnk^c | ^À Ao clf go dgtu² i tg vcp^l r^c#
J qnxcⁱ { qp c u^Àxgi gf Ao kg^l gp n^l f cncp^cmc| a^t c^À è ô
Dgp{ qo x^a p u^Àxgi² vu o gi t^a pf ¶^a p n^l cci^a p{^a v<
i J^a tqo o^a t^l a^u è. ^À i { o qpf. i R^a tlc c| kn{ gp co qn{ cp[#] è
M²tfkc| ^À < i K^l cf qf hrg^a t^a p^À è ô i dk^l c| crlc
Ngm² p³gmugo cni dd r^a t^l a^v gi { n^l v^c hqt^l kv^a r^l è
F^{3/4}dt^{3/4} kx^a i gi { gvukpm^l a^l xcn=pqu^l c j^a tqo
Hgi f o gi vqr rcp gn =O cv{ kvc n^l v² n^l dc ekd^a r^l a^m =

NÀf lckvgrj clv^a n² u c ncr wn³4 vj gxgp{² dgp
 3/4xgpvx^a i pcmt^a . o gn{gvu³xi grxg lct^a p^a n
 Gi { kur^a p j kxgp ul^a o r² n² u F³4t³4 kd t³4i
 Mctul² ml nul go r² n0ô O cv{k³ { ul »n² j qi { hgrgtgul v² m<
 ì | p wtco c h² gv² un³4i 3/4p³4 =j c c| Kxgp gt v^a f
 U² r²gdgp o gi vctv. o clf o gi ul qn^a mo =c|² tveucm
 T»xlc henc ncr w² r² l^a tc. j qi { gnp² hgrglvug<
 J^a tqo ul qt xgtkgl vngpf gp Nwf cu O cv{kxku| c#è
 G| veucmerki x² i |² . p² j^a p | | 3/4f kpi gugmci { dc/
 H dg xgt² m un² xgw² ml»no gi j wteq²xc j cl^a p^a n
 Hqi xc. j qi { c h²4f gvo² i c r² d²llc ugo² tvg0
 O ³ j ² v² n² xqp² m o² i gi { ul gt xku| cn² nqw.
 ì Qu² v² p j^a tqo ul qt xgtko gi Nwf cu O cv{kngpf gv#è
 J qi { o^a t qwnkpp xqr² ³ { ul »mqwc uqne² i j q| <
 ì O clf o gi r² ur^a vqm j^a tqo ul qt o gi xgtgo c| vrc#è
 G| vo kpf gp p² xgv² =f g nk^a nvc F³4t³4 k² j^a | p^a n
 .. tkngu ul exckp O cv{kpcmj cj q² tc hcn² vcn0

J qi { j c c| wf xctd»nc l»ul^a i^a a dc nko gpvku.
 V³ r² peu^a u m² xci qnvo kpf gpn² j k² vlc o gm² w0ô
 G| vO cv{kku. o k² vo^a u. l»nw² v. f g j cu| vcrp= c| v
 J^a tqo ul qt hqi cf^a . j qi { o gi xgtkF³4t³4 k<c² ppcm
 D^a tj c v²4 kn² ul cn² f ku. eucmo gi ngm² gppkcn² tj qi { 0ô
 Qtul^a i qu x^a u² t guk² mgi { n²qt F³4t³4 kA² pcm
 X^a tqun² l^a dcp=O cv{kqw. o k² vo^a u ki c| go dgt.
 O gi lgr² pkmr ctk^a p=c n»x^a u² tdc dq² qpi x^a p.
 O gi r² vgi { xkti qpe m² xcvgi { kf gi gp ukj gf gtp² n=
 M² f g| k j qi { o k² g vtlcA² Wtco . eucmul^a | ctep{è ô ³ {
 }o qpf 0

ì Eko dqtc. j qi { ngj gvc| Aô O cv{k³ { ul »nô A² {/g mo^a | qnA
 V³ m² xcvku xgul gm² p cpp{k² p. v² p lqddcvku gpp² r² è
 ì W² { f g wtco #ô hgrnc ukj gf gt. ô l» pci { O ci { ctqtul^a i .
 | u o² i ku nkj ci { qo o k² p l^a tvx^a lcvpkce² mcn
 O k² p c n² v² ul go go gv. j ceucmgi { m² xc j^a i ku gr² dg0è
 ì W² {² p c m² xcf cvo gi xgpp² o . o qpf O cv{k j qi { j c
 O gi dk qp{³ j cv^a f. r gf k² ³ { o gi pgo xgul kugpnk
 k² vpgnk ô h² r² g o gi {² p xgrg. ô p² | f qwcp rcnk² mgi { A² .
 C Nwf cu O cv{k² x ku| qp{ A² h² r² g² gu gn wg.
 V^a p wf qf c| vo ci cf ku. ô o clf kwn² qeuk² n² | kmgnc² ttc
 V² k² r² peu^a u n² vq^a m² xci qn² cmj k² vlc o gm² w=

O clf j c c| gtf p²nl^a tpcm p{cti crl qf c. o qpf lcf
 U go dg c| À tpcm j qi { <vg xci { c Nwf cu O cv{k qu| v³ p
 Mqt>fl^a o . o gtvu|^a | rmgf rgul . o² i ku c| ¾f¾
 Gxku| geu² o . j c c| qmo gi eu| pgm-j qi { j c pgo . À { 2 p
 O gi xgu| go c mxcf cv=hr² p| À n j qi { dk qp{qu r² i { .
 V| ctep{cvhgrcf qm=xci { o gi rgu| gpi go gvkvu kwè
 Vgu| gwc v | t n'r cwcpvukj gf gtpgmc| cmw
 | u pgj gl gp rguk j qi { o knqt kpf wno^a t c| c| À n00
 Gi { u| gt r² to c gukm tkqi cv^a mu| 2 llgnc| go dgtv=
 F¾dt¾ kl j kp>p#ô —v^a d>nl² rtg xqp>f km
 O kpf gp ki c| r² rgn00 Rg| ugi c r q| ui^a u ukj gf gtdgp
 C l> x² t. u eucmcrki x^a tj cvlc. j qi { c ngtgmgtf v
 | t² mF¾dt¾ k² n= o kpvc p{h w^a pqmgtgul vk
 T^a t>l^a v00 ì Neuucp. muucp wtco jè ô nkcd^a rlc<
 O gn² u ¾ngvc j kp>pcm ô ì Vwf qf/2 wtco ô À { o qpf. ô
 J qi { nkxci { qnAwf f o gi . Nwf cu O cv{k² p xci { qn#i Weww#
 Telvc rgi² p{#è ô Qtf hlc c| À ô gi { u| gttg w³ pc
 J clvc v| r² peu^a u. fg o kj cu| pc. p{qo^a dc ug j^a i pcm0
 ì Hqi f nknqeu| p{gti gumxpcf v00 o qpf F¾dt¾ kô lqdd gl
 O kpf c v² p² n o qpf lcf. j qi { u^a | ctep{. cnk
 Gtqi j cvlc#ô u qt|uf #è O ci c c j kp>dc hgnv km
 | un^a k^a peuk| go² vf À n| gu| xg o gtgu| kw^a pqm
 J qi { hqi l^a mo^a t gnO cv{k00 Q r gf ki c ngtgmgtf
 Uctn^a p^a ngr| À xc h^a gnv ur^a w^a p. j qi { c| À o^a t
 Eucmo ci c xcp. nkqr >| nqf km² uo gi t^a pvc twj^a l^a v<
 ì O kv^a o vnc| wtco AP go hqi l^a mc| vo c gnô À { o qpf <ô
 Qu| v³ p pgo Nwf cu O cv{k| . j cpgo² p xci { qm cnk
 O gi xgtgvgwngro gf. un^a l^a vgrxgvg gt xgrè
 F¾dt¾ kvc o gpp{m j c c| qp p{qo dcp o gi À¾vg
 Xqpc. vrf p uqmnenn³ pp{gdd rgwxqpc u gi² p{pgn0
 ¾u| xgtqi {qw² uc nqeu| d>n^a lwxk | vj cpvng0
 QwO cv{k u^a pcnq|^a up² m^a no gi xgtg wqnu| qt=
 Ugtu² p{2 vc n^a t^a dc xku| qpvnk^a x² p
 O qpf lc< Ì P g l^a rlgp c| À. o^a t ¾du ¾ pgo xgtgo² p o gi è
 C | | cnn>c ncr qw ugro gpvf qn^a tc ¾¾mgo

C v² gpi { mxcuqmpci { n² u p xku| cngt À ngn
 Xgtvixckmeucmcrki j À x^a p kpcnev xcrc o kpvc
 O gi | u^a nqnv tqmku nkvgf tng| x² p. nqeu| dcp
 D^a i { cf vep rgngr= o qpf l^a m j qi { pgo xcrc n^a r gu
 Vctn>p eu| pkO cv{k00 P go kuc xqnô F¾dt¾ ko qpf lc.
 C p² i { gpkxcn>. o gi xgtvj^a tqo u qt00 C| Kvgp

ĩ { d^a pkmu d^a plqp xcno gpp { kngi { gvvp wcmert
G| vo qpf x^a p. o gi v² tvc neu² n^a dc u c| qppen
Gm³ Af^{3/4} w c j Àu| n^a peu^a uv. ngi { grgo o gncm² x^a p.
»lpko ci^a vgl w^a p c| gt u| cm² vgrgm² gmp=
! u v^{3/4} x² p { vgrgp² ãpgo d^a pv. j cpgo Ai { . cj qi { knkm
Go dgtv^a tuckxcn=l»nku x² i gl vg xk^a i^a v0

ZKOU *f* \ CF

MRHCNWF [Mf TQN]

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C Df P M F ~ H TL

U| cvo^a tdcp gi { nku eu^a tf c xcp.
Vt² | ukcu| qp{ n:nqwwqwp0
! ll²nj cl^ap. dqi^a tu| go .
Mgtgmvc| A | vgtō gv =
F g lcl. o kn| ul²r qn| eulpvcrcp.
T»| u^a u clnkp r^{3/4} vpwrcp.
O quvng| f g eucmj qpp nku xk^a v.
Eu^{3/4}n r^{3/4}n xgt co kv^a v
H²tl²p c uqt. nku| wi dcp ãn
O kf p kn| ul » j ctuqi nkxãn<
i L³p c wv^a t#è
T²o ãn u^af. hww dwn^anc p²r =
F g ul²r Vt² | ukj gv{ n²p nk^ar <
l²thk»nj co ct pgo l²n
Mk^anc| Aⁱ { j c p{ grxtg n²r0
O²i j cte»n²pi | »mcteck
Nglvpgmj »ngdrg j cno ck
O kf p l³p gi { | ^{3/4}o ^{3/4}mcv^a t.
U| k²p | u^a n^o ^ap{. ul go²p v | ^at0
C ul²r Vt² | ukn²p{²tg j cv
P go n²t uq^a. hgr^a wi tev
F gt²ndcp v^a v^{3/4}grk
O ci^a j q| n>tc go grk
Gn²t u^{3/4}o /mqddcp^a dcp

T^a/t^a r kumji p{cti cn³ dcp0
DÀwnc k²tl u|²r cuu| qp{^ap.
W³pc p²| o kpvx²u| w³p=
Uco kpvgnv p. n³p{ n³p{ gvj clv.
Uclp^amp^a v. ²u hgn»j clv<
ì U gi ²p{ cv³t#è

E\ WE\ QT I GTI GN\

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C HCNWUK MKUNGf P [RGUVGP

Lcl dg ul²r c| c Rguy. Kvgpgo . dg ul²r #
 Udgppg o kn{ gp Àtk o kn{ ul grff c p²r 0
 ¾u| gxku| c l^a tvco wcv Àhrgv.
 Fg ul go go p{ wí qppkpgo vcrí nvj gn{ gv0
 Cdrmedrncmnp xcp j^a tqo p²i { uqtqp.
 Qn{ o ci cu hcnwpmncp pkøeugp c vqtqp{ 0
 C uqmwev ¾o xg o kpv c o²j gtcl.
 Iqddtc dertc h²p{ gu i { ¾pi { . gl Àuv. ctep{ .
 Uo kpy c dÀeuÀ^a mpc n²u p²u nqt^a p.
 Ek²tc qwc h²thk cuu| qp{² u n^a p{ 0
 f o euw^a rpk o² n» o kpf gpgml²¾¾w
 J qi { ngx² n{ ciki xcp cpp{ kÀ n²¾¾¾w0
 O gtvn^a tnc cno^a vxkxgo^a twdc.
 Uhgnrcmctxc ul²r gp Àngo ner wdc0
 Qwj qi { Àf^¾ n²ngo² p ul gi² p{ n^a p{ .
 U²r gp p²| g o kpf gp^a vo gp tg^a o .
 | u uqncp. fgj qi { o² tv pgo wf qo dk)² p.
 Xku| chqtf wf pcm^¾ ddu| ¾ ku hgr² o 0
 Uj^a tqo n²p{ xgu Àtko^a tku n²¾ d²gxgw.
 Gi { kmn² tf kv ngo < ì J Ài qo o kpgxgf Aë
 M²tf kc o^a ukmku < ì J qnrncmndcd^a o Aë
 | u c j cto cf kno qpf < ì Ngmgo p²|| tg^a o #ë
 | p o gi gr kwnc o . qj fgj qi { ku pgo .
 | ueucmÀi { uwaqi xc o qpf vco o gi p²gxgo 0
 J^a p{^a xc nngncm^a o AO gi ugo n²tf gl gn0
 f o j c cpp{ krgwku xqrc. o gi xgx² n0
 Uo gpp{ khwteuc ul²r gvngn² j cmcpqo .
 C| vÀi { grdgu|² rpkqj . fgj qi { wf qo #

::

ì J q| u| /g o²i dg cm^av kw Ñu| cmnqt ku Æ
M²tf gl²pgm²kv²gp wf lc j^ap{u| qt ku0
Lcl dg ul²r c| c Rguv. kv²gpgo dg ul²r #
Udgp²pg o kn{ gp Æk o kn{ ul grk²c p²r #
Cj qi {^amf qi^anco wec ul³/₄ rg²p.
Pci { ul²gvxg l³/₄vgi { ul^arcu Æ hgr²o 0
H²p{rgwtclv} gl Æuv³/₄ul²r n²rcr . utvj c<
I c| fci Æ rgj gv. fg o²i ugo n²vqpc0
f mpkel²tc j k²p»p. r^awco qn{cv²p.
Dclul c l»nnk²rgpxg. dctpc o k²pvc ul²p0
ì Glp{g i {³/₄pi {³/₄o cf vc nku o ci {ct rg^ap{.
ì Pgo ul gtgvul /g gpi go A| p ul gtgv²gm^ao Æ
~i { n³/₄ul³/₄pv²ul²r gp. ²u²p kuo²tg.
Ogtv Æi { j²kc. j qi { eucmo gplgm²gnxgrg0
ì Pgo rgj gv. è hgrnggo . un²tf gl²< ì O²k²tv Æ
ì Ogtvcp{^ao »no gi xcp v²nc. j^avcl²tv Æ
ì D²pg o gpl rg^ap{qo è. gl xq²vc ul cxc.
ì D^at cn²tnkj²pc. j^a| dc ugj qxc Æ
ì Mku ul²kg²o . vgj^aveucmpgo l³/₄ul² gn²xgrgo Æ
Oqpfc. u o gi ul qt² n²wl gt c ng| go 0
Ud²ucp qwj ci {qwc| wec ul³/₄ rg²p.
Pq fg o kvgi {gm j c v²nc c ul Æ²o 0
Lcl j c o gi jctci ul kncl c| Æ tg^ao #
Oko²kg²rglmcn²qt. o gtvj cv²o cu^ao <
Gi { nqu^at cm^axcndgo gi {gmo gi k²p.
! u j c o clf cp{^ao c t²i ko »f tc k²p.
Ul²r gp n²tgo vgv. j c f f rgi {gp ul cdcf
H²ngtgpgo c| vc ul²r twj^au wtcv.
Uj qi { jctci lc ul pl²m eu»n²q²rnng| gv.
P²nkp{ Æ²qo^ancnc rgi ul gddgngv.
! u²tg²o . j qi { c| vpgo vgl go uqj c.
Ul²pkpgo hqi qm o gtv pgo n²vqpc0

X· T· UOCTV| O K f N|

π 22ô 3: 77

RGVKMG

DÀu o qi qtx^a p ÑRgvknʔ .
J c j c j c#
R² vgt ² u dÀ# c o gpp{nʔ/dg.
O kdclcA
Cp{l c nʔ o rkj u| go gmngnô
L» ^{3/4} gi #
C| vi qpf qrlc. hċeumʔ lc
V^a p dgvgi 0
ì Mgm̄i cñwñc. Rgvkhco .
Gul gn'gAë
ì F gj qi { gul go . f gj qi { gul go .
Mkxgrgċ
ì Mgm̄dq̄t. ² f gu ul ² r hċeumʔ o .
Kul qn'gAë
ì F gj qi { kul qo . f gj qi { kul qo .
Gnxgrgċ
ì Mgm̄'g uctncpv\ Àeuk| o ^a ftc.
Rgvknʔ o #
Mcr ci qf tc vqmu o gp^v f tg
T»ncr t² o Aë
ì O kvpgngo vqm o kvpgngo r t² o .
Uctncpv\ A#
J c ul ¶kgo dgp. o kpvc t»nc.
T^a i c dAë
ì Mgm̄'g nʔp{x. c ul qo ul ² f nʔp{xg.
o DkrlcAë
ì O kvpgngo nʔp{x. c dgu| ² f o kpf
U| » hċ0

Gi { dct^a vqo xcp pgngo eucm
 C j cñ n=
 Cl wf qo . j qi { kppgp/qppcp
 Ngncu^a rñ
 ì Cl gi gntg# Rgkñco .
 O gi pg j cñ<
 Cpp{kdgppgf c u»j clv^a u.
 O kpv c tcl0
 f xk² || go v³ p Lwkun¹ vA
 N^a vj cv^a f Aë
 U »no qi qtx^a p R² vgt Àhk<
 ì J qnxc p j^a vAë
 f to^a p { cf v c R² vgtñ¹ lg#
 O² i o kpg o xqnc dkd² lg#
 Ugo nœr r lc. ugo o gp² lg.
 Ugo c uctnœpv{À| gp² lg.
 P go ngmpgnkt»nœ o^a klc.
 Ugo c u| qo u|² f dkdñ^a lc=
 P go ngmpgnkdqt. i cñwnc.
 F g dgl | gi ngmc Lwkunc.
 D^a t pgi² f gu² u j co kunc.
 F g. xk¹ qt. u|² r² u r kqunc0
 Ugo gj gp² m ugo kj cv² m
 EucmLwœu^a xcnp{^a lcunqf p² n0
 ì Gl Rgkñ^a o . u|² r hco . j^a v
 Gl c dcl#
 I qpf qo ngu¹ t^a . j qi { pci { qvp l
 Uo gi pg j cñ0
 O quvœnetqf l kñqñ^a dc
 Tquu¹ hñ#
 O gi pg ñ uco . j qi { r k{gtgi u| .
 H^a ñ g dñ#
 Kñqñ^a dcp c Lwkun¹ v
 Gñgñgf f<
 Kñgp² ngv. vñ¹ ² x o Àknc
 Gñgj gv) f ð

I f DQT F K̃ M

I^a dqt f k̃ mo² n̄ { gp gm gt ãk̃g
 ©nc n̄^ea p. gi { pci { n̄³p { x gn wg=
 C xk̃ i² tvh̄ ãugo r k̃pcpc.
 J c gi { h̄k̃ i { tg^a pgo ul^a n̄pc=
 F go^a t gttg eucmh̄gr k̃pcv
 Uko o gi n̄ vgi { h̄ ãi g n̄^a p { v̄
 ì Glp { g j ãi qo . dg r ktqu c | qte^a f.
 J c f f ul c n̄cu | cmt » n̄ gi { r^a t t » | u^a v̄

ì I^a dqt f k̃ m j co ku I^a dqt f k̃ n̄#
 J ci { lqp d² n̄ v o gtvd̄ k̃ qp { o gi n̄ v̄^a n̄
 ì Ugo o k̃ n̄ v̄ ã ð o qpf c | l » n̄gf x² dgp ð
 ì Ncn̄qf c n̄qo xcp c eu » mx² i² dgp ð
 ì Lcl pg d^a p uqp # Mgmukg v pgo ð
 Gij wnr^a t v̄ o . kvh̄gr l vgo 0
 Cj xgi { g gnc | vc h̄qt » ul^a v̄
 ì O² i gi { eu » n̄q v̄ ð ì P go . pgo ð ì Mgw v cf l j^a v̄

I^a dqt f k̃ mo² n̄ { gp gm gt ãk̃g
 ©nc n̄^ea p. gi { pci { n̄³p { x gn wg=
 Uj qi { h̄gr k̃pcv gi { ul gt eucmgm gt ãn̄
 C n̄^a p { l³p d ãucp u ul^a p vgr p ãk̃
 ì Gl j ãi qo . f g j c n̄x^a p { xci { .
 H̄ n̄gr gm j qi { gnpg j gtxcf l ð
 ì I^a dqt f k̃ m^a v n̄ | qo c eu » n̄^a v
 O kn̄t vct v̄ mo gi c n̄n̄qf cm^a v̄ ð

ì Ugo o k^a vqm l³ l gnr ã n̄³ u f per tc.
 C f f k̃ i t » | u^a o . c f f k̃ i o gpl f q n̄ qf tc 0
 P g gi { r^a t eu » n̄ # Gi { km ã t c x c n̄ .
 O^a uk̃ m j c wi { vgu | km xki cu | v n̄ ð
 ì I^a dqt f k̃ m j^a v j c n̄ u
 R ã n̄³ u f per n̄qt c o gp { gi | 0
 ì Ugo o kn̄ u # Vg xk̃ i t » | u^a lc ð
 ì Gl dg j co ku c | c o ci c ul^a l c ð

I^a dqt f k̃ mo² n̄ { gp gm gt ãk̃g
 ©nc n̄^ea p. gi { pci { n̄³p { x gn wg=
 C xk̃ i² tvh̄gnpgo r k̃pcpc.
 Rgf ki kvxcp r ktqu r ã n̄³ u f per lc 0

F g gr dg l³/p c ng^a p{.

Ugi { eugeugo vtłpi cvnetl^a p<

ì Gl. gl o^a t gl vo² i ugo j kwgo xqpc#è

ì O quvc xk^a i gpi go ugo eu^hqpcè

ì Uj qi { o quqn qi kwgpcf vc hw^l c#è

ì | r gp qn cp. o kwvc|² f gucv^l lcè

ì O kveul^a rlwpm o kwgi { Āpmi cno dgo Aè

ì | p wf qo . j qi { c F w^a dc wi tqo è

ì Ugo o kwi t^a u# lgt c r cr j ql è

ĩ { u| »nI^a dqt c ng^a p{j ql .

Upci { u| qo qt^h cp c n³/p { xgvdgeucr lc<

ì Uj c. uqj c kn gp r Āpn³uf per lc#è

U \ GO GTGO KMN U

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C NWMCK RCR

Dqf tqi n³4 ³p tci {qi Nwnc.
O kpf gp » ²u Al nt»pknc
Eucmt»nc ur cr l^a t»n⁰
P go wf c xk^a i Dw^a t^Àn
\ go r r² p u Dqf tqi n³4 j qp^a t^Àk
Eucm/Nwnt t»n| gpi c j ⁰

U⁰ p c j ⁰ pgxgu Nwnt dcp.
U^a teuc. nAf . x³eu³4nj qp^a dcp
\ gpi gf g| tgr gf vj ctcpⁱ =
\ gpi L>| ughet^a ul^a t pgx²tg.
P ci { pgx² pgm^Àppgr² tg
P ci { tgn^{gf} vgp< eukpi /eucncpi 0

tnen^u c v^ggl² dgp.
X² n^up { p^a tuvtqp { ngx² n { gp
Hkqi v^clc v^gto g^v v=
P² i { ul³4² dgp p² i { v^qtqp { nc.
P² i { eukdg n³4 ^Àno kn² pvj c
Mq^vu p { Al^va h³4n^hgl² v0

I { nc p²r . v^{ct}ku| p { c x^a n³p.
Dqeu^uqt u^a uo gw^u gw^g r² d^a p=
O^a t vgo r m^qo dcp c ugtgi 0
\ gpi | uqⁿ³ tko ci { ct² pgm
C o ci { ctqmkn^ugp² pgm
Nwnc x⁰ i j^a n³ vtgdgi 0

X²i | k000" uul gvgwngl gmggn
 H² rki j wp{ vngi { gu ul go gmggn
 C r cr ô p ô ul ²n²dgp^a n0
 L^a o dqt ul . o kpvdkrk^a lc
 T^a j cmi cvNwnc ueuw^a rlc
^{3/4}xgp ²xgm»c o^a t0

ì M²rf l gu vc x^{3/4}i { u vgv tg.
 M²rf l c ul qo lc| » o gl tg
 Hngi gf d n qj Cv^a pn#
 Kvgp. tg c o ci {ctpcm
 Dquul w»_c nqpv{qu vctpcm
 Cff^a rf^a uqf cvtg^a pn⁰

Uo kvj c ul ²nxkj ctlc v^{3/4} nk
 O kpf gp ul^a l w³ pc f^{3/4}i k<
 ì M²rf f gu fgv»j Cv^a pn#
 Kvgp# tg c o ci {ctpcm
 Dquul w»_c nqpv{qu vctpcm
 Cff^a rf^a uqf cvtg^a pn⁰

ì | u nk²ppgr² n{tg kvgp
^{3/4}uul gi { n²pm^a rff o gi Kvgp.
 f rff o gi c o ci {ct nk^a n{v#
 P g p²| f. Wtco . j qi { p² o gv.
 Qj pg p²| f c| v n²t²pm^v i gf .
 O gtv vku vg cmq^v f⁰

Uo kvj c ul ²nxkj ctlc v^{3/4} nk
 O kpf gp ul^a l w³ pc f^{3/4}i k<
 ì f rff o gi c o ci {ct nk^a n{v#
 P g p²| f wtco . j qi { p² o gv#
 Qj pg p²| f c| v n²t²pm^v i gf .
 O gtv vku vg cmq^v f⁰

I CTC[Lf PQU

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C\ QDUKQU

KO

C/ qdukqu²uPcr»rgqp

J^ato cp xcn^apcmgi { $\tilde{A}w$ c r qvtqj qu d^a».
Gi { qdukqu xk² | .²u c h^ath^api qu \tilde{A} »=
C \tilde{v} /ddkcu| vcm^angi { $\tilde{A}w^2$ u u| gt^agu²v
Xk^ao r ctcu| vrgi²p{ gmk^amc j gi { rgx²v

Qw \tilde{A} ngmkf f qi^ancmxgeugtp{ g »v c o^at.
M^atkpi gw²u h^angu f n^c dwf qu» r qj^at=
O^av^au nk^an^a ugo p{ gt^av^ap \tilde{v} /dd²rlgpvc F w^ap.
O k^apvo gpp{ kvJ^at{ L^apqu. c| qdukqu o ci^ap0

Uxq^aku o k²tv^apci { | cl. g|²rlgp/j^adqt \tilde{A}
C| qdukqupcmr^atl^avpgo i^awc j cvhcnw
C u| go . c u|^al g^am^awo gt²u| dgu²f gk^a.
Qtu^ai/xk^ai euq^anc xk²| kv^awgk^ap0

O quvku ng|²dg n^cr x^ap c| \tilde{v} /dr^au o gu| gn^aguv.
M^acm^apf qu²rg^ad ntgi²vtgi²tg ng| f=
J qnu o gttg l^atv. o kv^avq^aw o kv^agw u^av^atuck
Uj cmi cwc h \tilde{A} i v^amtelc o k^apf p^alqmclnc \tilde{A}

. nk^ato^af k^anev^agtvu²llngi { o ci^ap.
V \tilde{A} i^atc j cf pci {^axcnc| ~ r gtgpek^ap.
Mkhtcpek h^algm^agn^av^avn \tilde{A} Artcn^a.
Gu c xk^ai x²i²p²n^ad^av^agn^ai cv^a0

ì F g o ² i g l o k p f e u c m u g o o k è u l q n f u c o q p f c p k
 U n f 4 g n d e u q r q t v q u w p c m c v 4 d d k v j c m c p k 0
 ì O k # u g o o k A ô o q p f c d f t » ô c u q n p a n k u u q n e d d .
 K { ² m n q o a o # è ² u k u l p c m o k p f p { a l c p o k p v c e u c r 0

ì P g o c f f k i x c p ô n k a n v o q u v e h w t h c p i q u f k a m
 C n g i l c x a v g j c i { v c ô ² u o q u v 3 4 j c m i c v a m ô
 M g p f v g m o ² i o k v u g o w f p c m j c g i { g v g n p g o o q p f .
 J q i { c p h q i c g n d a v } » c p c i { P c r » r g q p v è

ì J o # O q p f c l q d u k q u j u . ô c p c i { P c r » r g q p #
 P c i { c h c p e k a m n f 4 v ô ² u x a n f p g i { g v x q p .
 F g g p i g o A i { u g i ² r l g p . p g o c o c i { c t n f 4 3 4 w
 U j a v o ² i ô x g v ² w w p c ô o c i { c t j w u l a t g n w è

l u k v o c i a v ² t v g w g c l q d u k q u d e n e .
 f o d a t m x q p u q j u g o x q n v ² n ² d g p l » o c i c <
 F g c p p { k v g o n g i g w g ² u c p p { k u l q t m x a v
 J q i { x ² i t g k u j w u l a t p c m n g n g w j k p p k o c i a v 0

ì J q n x q m j q n p g o . d k q p p { c n o a t o g i p g o o q p f j c v q o .
 M f w l a | g l g t x k ² | | g n l 3 4 w t a p m P c r » r g q p .
 O k v p o k p f 3 4 u l g u l a | c p . x c i { n f w l a | c p x c r a p m
 O k p f p { c m e u l ² r j w u l a t q m o k p f v | ² u c p p { k r f p i è

C h w t h c p i q u f k a m k w u l 3 4 p { g v r t A u l g p v g t a .
 F g J a t { d g u l ² f ² v v q x a d d k u h q n { v c v a <
 ì M f w l a | g l g t p g m g n g p n f w l a | . c l c p i { c r f #
 O k v i q p f q n g p f . d f t » A t . n k c f v c o g i q t a v è

ì M k c f v c x q r p c . j a v n k è x k u l q p l c n f t f 3 4 3 4 w
 E u c m x q n v c n e r k v p { d e p ² u l . ² u p g o A n f 4 3 4 w è
 ì X q n v a o . f g x q n v m w a | u k u . n q o ² m ² u o g m u t c =
 O g i A n f 4 ² p m d k . ² u j q i { # è n k a n v c x ² p d c n e 0

ì O c i c o x c r f m c l g n u . n k n f 4 d g x a i v c v q m
 J w n q w c h c p e k a l c . o k p v j w n c h . c l ² i #
 C p e r o g i a m v h 3 4 3 4 w A p m d a o w p k c e u q f a v
 M f w l a | g l t g v j q i { x g t v o g i n f w l a | . c l c p i { c r f # è

! u c f k m À l q p v c u l 3/4 p { g v r t Ñ u u | g p v g t^a .
 F g J^a t { d g u l² f² v q x^a d d k u h q n | v c^v =
 ì H w q w c m o^a t c h t c p e q m o k p v u l² n d g p c n e^v p i .
 W^v p q m c o c i { c t u^a i . j q i { u l k p v g h w m f^a p n #

U^q b c h w » n p c m n 3/4 v g o g i r^ñ v q o c x g l² t v .
 C t c p { n g p i { g n d g p r^ñ d c . n x^a x c n u l² n u g o² t v .
 F g² p k u r c t k r^a o c v w^v p c t Ì v c v q o .
 U g i { u t g t f u l² r^ñ p ô x k² | À n g r h q i q o 0

ì C | c p i { c r^ñ # n k^a n² m u o g i e u^ñ f g o v p { c n u p .
 O q u v x c n f o g i . Ì { / g . j q i { v g x c i { c P c r » r g q p Æ
 ì X c n » . c o k x c n » ô u l » n v ô x k² | . j q i { c | x c i { q m
 E u c m² n g o p g m n g i { g r o g l | . c f » u p g o o c t c f q n 0

M^ñ t l v r g o . c o k v g u l k m x k² | o c i { c t r g i² p { .
 C h t c p e k^a m e u^ñ u l^a t c n k p e u g n d g p p g o u l g i² p { #
 ì C | c p i { c r^ñ # ô n k^a n² o ô w t c o . p g o c f f k i c #
 F g l^{3/4} | c n e r k^a p { j q l r^ñ p e j q t f v h t c p e k² Æ

! u c f k m À l q p v c u l 3/4 p { g v r t Ñ u u | g p v g t^a .
 F g J^a t { d g u l² f² v q x^a d d k u h q n | v c^v <
 ì O g p v Ñ p m² u o g p f g i² n Ñ p m u n k² t x² p c u k n u p .
 G i { j c v u x c u j k p »^a m g n w Ñ p m i c | f c i q p 0

C j c v u x c u j k p » d c p g i { Ì k c u u | q p { Ñ n .
 C t c p { » n² u i {² o^a p w » n t w j^a l c p g j g l Ñ n .
 C o k p v t g^a p m v g n k p v g < Q j l² | w u O^a t k #
 M^k n c = o g t v j q i { x q n v O^a t k N w k² c 0

ì K { n g m / g v² i g f r^ñ v p q o . q j p c i { P c r » r g q p #
 | p p c i { h g n² i l² t l g o . n g i { g v g p r^ñ p e q n u p A
 U n k x c i { v g . l » x k² | g o . n k v g v g r h q i c f Æ
 ì X k² | l q c p p g u J^a t { . ô o q p f^a o ô c | c p i { c r^ñ # Æ

ì J c m f . c o k v² p v g p² n g f k w o q p f q m l » x k² | =
 ô U l » n v o q u v c | Ì k c u u | q p { u o² n² g p u l g o g o d g p² | . ô
 V g q n² x k² | k v g v g v n² / k g w² n k v g p g n
 O k p v o² i g i { o c i { c t u g o . o g n² p c i { f^q l v² t f g o g r 0

; :

J c vvg gndqeu^a vqf. ¶² tgvvvgu| Æpm
J qi { j qnqo ô uj qnqf ki ncp gp{²o v²f ngu| Æpn² ô
i C| cpi { cñ #ñk^a n³o . hgn²i gu cuu| qp{qo .
Vwf qo . o kc dgeu|ngv. ngi { gp ul cdcf tcdqo 0

U²r cuu| qp{²tv ul²r r²p{²tvc| ki c| kxk²|
V²g vxk² gvn²k² mpk r qnqnc o gppkn² ul .
Xk²| IqcppguJ^at{ ki c| o ci {ct p²xgo .
©r³/p hgn²c eu^a ul^at Æ. ô kwxc²p t²g^a ngl go Æ

! uc f²k² mu|³/p{²p u pci {qvr t²u| gpvn²/².
FgJ^at{ dgu|²f²vgnm²r r gp x²i gl²<
i O qpf qwco² uc eu^a ul^at ngi qwgk^ai v²qvw.
Fg n²vngl go dg n²vul²r ctc²p{ »^at^a vp{qo qw0

C| gi {kn²gi qpf qnco . n²r k²p{qo pcmj ci {qo .
C o^a uk²evn²u d²gp gm²tvg j cf pci {qo =
C| cpi { cñ #Eucmgi {gvctvqwco xqpc o gi 0
Ogtvo quvgnku j k²g²m pgo ku nki {gm gvgn²

Fg mj k²mo k²pf cpp{kp. c r q²tqj qu d²¶».
C xk² cf » ngi²p{gm o gi c i qpqu| ¶».
C h²h²cp²i qu f²k² mku pci {qvj³/r gpw²g ul »n<
P k²peu qn² xk²| c h²/f³/p. o k²pvJ^at{ d^av²c xqn0

KO

C\ QDUK\QUNf VQI CVf UC HGTGPE EUf U\ f TP f N

Pci { . fgt²mxk²| ngpf. xk²| J^at{ L^apqu.
C ugtgi ngpf p²m²Andk² qp{ pci { j k²p{qu0

Xclj #Uqnev²dgu² nvgnuqmxk²| fqmi t»n
Co kvgo dgt pgo j cmj gw²gpj²vqtul^ai t»n

Gndgu² ng pgm²Æpm<Hicpek²qtul^ai dcp.
C vpi gtpgmr ctv^ap j qi { l^atvRcfqx^adcp.

;;

N^a x^a p pci { r ctv^a p »tk^a ukt^a nqv
Qm»l^a xcnc^a h^a g^a w^a gi { n^a x^a cu n^a |^a n^a v⁰

! u o kf p dgl^a tv u |² r Vktqmtul^a i qv
C u^a lgt j gi { gndgp qn^a o ci cutc j^a i qw<

J qi { j cl^a vc per pem^a pi le o gi pg ner lc.
C j gi { gv^a x² i ki ngp. eucmj cuqp o^a u | j cwc⁰

O^a unqt O cpvqx^a dcp ngf xt g^a v^a dqtq | x^a p.
J² v^a hgl u^a tnf pp { cnxkwo kpvgi { qtqu r^a p⁰

! u nkww^a p^a x² i² v² u nkww^a pc o kpf gpv.
Xk² | J^a t { L^a pqu. xclo kpci { xk² | ngpf⁰

F g j c o² i gl gtul gt qn^a xk² | n xqipc.
O kpvco gmq^a t^a pcmww^a lc ngpf gv^a xqipc.

C | vpgo gpi gf l^a mo gi . kn^a l » ngf xdgp r^a x² p.
J qi { pgo o qpf cv » mgng xk^a o vqt x² i² p<

O kpvu j qi { cp l^a tvgnngpf D² eupgm^a x^a tq^a dcp.
Mk^a n^a hgn^a i g r^a vqi cv^a u^a dcp⁰

! u c | qdukuqu j u. v^a tulp gmgkpw² p.
O gi uqf qtlc delu^a v ngw vku n^a j^a kpw² p.

M² o rgn f xg. pl^a eu/g v^a p f k mn^a 4³ / 4^a g.
Cnkgr t^a Au^a | gpvug l » o ci^a v^a h³ / 4^a g⁰

F g f k² mgl gi { u | gt pgo xqrvc dqm^a t dcp.
O kpf ki c | j^a x^a xgwt² u | vc |² lkvt dcp⁰

U xk² | J^a t { L^a pqu kvgp / ki c |^a dcp.
Gx² v² c uwn^a nqv d^a vqt^a i^a dcp⁰

i D² eudg ô ng | f² ô D² eudg. j^a vpq j² dg / j » dc
Mgf xgo u | qw { cp o gppknku r^a vqi cv » dc⁰

Uqmdct^a vqo² nqw u pgo gi { i gpgt^a rku.
U vxcn » vdgul² rkg. o ci c c nk^a n^a ku.

Mkpgm hgn²i²vc j cñ nvtñ d»n
 | p o gpvgwo o gi . pgo o guu| g Rcf qx^a »ñ0

O gpvgo o gpf gi²ngo / xci { o kvku dgu|²ngmÅ
 I {qtu hcm»o xkwj^a v^a p. o kpvkic| . j qi {²ngn0

J gl. j c²pg. o quvugo ñ^a v^a ugpñkr^a t¹a v.
 Uo kpvc u|²ngñ²tvgo tclvc D²eupgm^a t^a v

| u j qi { c j clpccnc x^a tqude²tvgo .
 C nk^añ{ j^a |^a tc o kpf l^a tv^a kuo gtvg o

M² vgl ucñ^a t»n o gn{ c j^a | vgv p Ñ
 Uo kpf gp pcr gi { wmqvñ²/vngi { gd²f Ñ0

Qwhcm» mpxco t»nn²p{ guggp ñgu|³ngo .
 C u³/²p{ h¹ l^a j q| . o kpvkñkñ^ñ²/vgo 0

O ci co x²i ki o gpvgo c| kvgt^a | u^a ñv.
 Gi {v ngi {ki kuo gtv. t²i kl» dca^a v0

X²i tg gñwqwo c vtp^a e x²i²tg.
 Mgl go gi { cl»pcmvx² p nk²peu²tg0

Xcud»nxqñc| clv». fg pgo p{ kvu| qd^a dc.
 U²r hgi² t g| Ñvd no^a ukmp{ ñvp{ qo^a dc0

C| gl Ñuvw^a p c j cto cf knlc dwmco .
 Vku| vc u| ñpctcp{d»n qwdg ku p{ kqwo

J^a vpgo kuj qi {²p. fg co kv^ta o vgnkpv.
 O ci c hgn²i g u| »ñuo ci^a j q| kvg0

Kvpp j q| vc mppf gv. t²i kl» dca^a vgo .
 P qu. j qi {^a mwpmô ñ²tf² ô hkuvg co kvñ^a vgo 0

ì J^a ñc Kvpp ô o qpf^a o ô o gi xci {qmdk qwo²i #
 O²i c t²i kd tdgp. o kvñ^a j cñc h²ñ²i 0

L» hcm»o ku. c| pq. o gn{ gp hgn²i²v.
 Gi {ñqt o gi o gpvgwo =¹a tlc. fg c x²i²vð

U1» j qi { go nŋwgo c u| gi²p{ r^at^al^av.
O gtvrgi qwc l» Àt ¶ { ng| f² o qpf^au^av<

ì J^avvi { cp j qnj ci { vcf c u| gi²p{ vAc| qppen
Kiv³m»dc xgrg. r ct^af²u nqxc o cκ

Gi { c| qp l^au| qnd»nncr lqp grg²i gv.
O²i r gf ki ctc p{ d»mô u mŋf vg c eugf²f gv0

ì J^avvg o^at gw²n/gAë n²tf g|² l»u^ai i cñ0
ì P go dk qp{ o²i. hgn²i #n²tgo^a vqu^ai i cñë

ì Ugo o kpq. eucmŋd ng ô o qpf c ô²u nġŋgo .
Xcp o²i xceuq^at»ngi { fctcdnc uŋgo Æ

Ucu| vcr h^kd»ngi { dgp nklu xgwg.
Ugi { hgj²t ek r»xcn²p gr²o ngwvg0

Gttg dgnk^anc c o gn²nu| qd^adc.
ì Xcp/g o²i. j gl cp{ lwm c urkqxle^adcAë

ì P kpeu dk qp{. hgn²i gu l²tlgo²u nkt^an²qo .
O quvnc c wqn» nqt v^avc nqn^alqo #ë

U »nqwc nkt^an²p²0ì Gl pq. mŋf l³/p gnj^av.
C | ukf »j q|^av. kwc r²p|. gi { i^atf kuv^av#ë

F lewo hcewo . Ài { ngw. j cll f g pgo j k^adc
J qi { nkt^an²pcmj q| v. i { qtucp ku l^atvñ^adc0

UO »| uk pgo j k^adc. j qi { nkt^an²pcmo²tv.
Hkpqo wnnkxngw. o qpf j cvqo . o²t v²ng0

! u co kpvgn²r gp kwpm gf f gi²nŋpm
T²i kj cteckpnt»nl»k Ap dgu|²nŋpm<

J^avn³4³vŋpmgi { u| gt qn{ uknqnq|^au xcp.
O kpv o knqt n²v³dqt xcp j cf cnu|^audcp0

C nkt^an²kÀhkm³o quvñ^av³o ngvo gi +
Ektc vtuqn{ qo²tv³4u| gxgtgn²gvn0

ì I { gto gngn#ô nk^anc tclqm²f gucr lqmô
 J^avnkxcp c j^a| p^an j qi { vkj cldc ncr vqmA

J^avc| cpi { cñ vku. xk²| J^at { d^aeukv
 Gi { ugo ñ^alcAO kpf l^atvrc tqñ v²u r ceuk⁰

F lewo hcewo . c nku wtkmt gpf tg l^{3/4}vgn
 Xcu o ctnqo dc r qo r^au r ctqñ v^{3/4}vgn

! p r g f k i d g p { Àncò ekltc vctun{qo dc.
 Ugi {/gi { nctel e^atn^avxgwgo c o ctnqo dc0

ì P go . dct^aqo . g| vpgo gpi gf go pgn^agf o gi .
 ô U »iqwc nk^an^a ô r²p| pgo xcn» i {gto gmpgn0

R²p| tg v^{3/4}dd u| ãm²i gf xcp pgn^agf . xk²| go 0
 O ktg o ctnqo cvo^at v^{3/4}o xg. f wi xc²t| go 0

U²r gp o gi n^{3/4}u^{3/4}vgo . t^alc gnd^aeu^al^awo .
 L»ncnqwhcn»o cvcm^ad»nnk^aq| wo 0

Uc nk^an^a{kcdtcmpgo ku xqm^aj l^adc.
 O gtverki ngt^av^adg j wu| qpp²i { »t^adc.

UD²eud nk^avj qp xqmco . o gi euk^añvi cxcn^at.
 O gtvc r²p| g| ãuvxqm. u o kpf o gi /cpp{kvcm^at0

Vcn^at. c| cpi { cñ v#O²i r g f k i ñ^a| uk^au.
 J gl. j qi { gñqj {^apcm o kvpg| gtp{kuqmo^au#

F g c|²tvc| kvgp vctvc o gi nk^an^aqo .
 Uqj)ug rgu| pgn^ago v^{3/4}dd qñ{cp l» dct^aqo 0

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3: 476 3; 26

M' V: N f \ VCVXC L

C| v dgu|²rkM Dqtuqu Kwx^ap wco t>n j qi { pci {qp qnqu go dgt o kpf ki . co knqt pgo kul kn0

G| wi {cp xcno gt^a n¹u. o kw^ap c dqtdep ki c| u^ai²u d³eu²i xcp= cnk dqtv kul km c| kf gi gp p{gxgnp dgu|²n u o kpf gph²rg wf qo^ap{d>n dgxgu|. c dqt>n c| go dgt xgt/ ugnv vpw n¹pk c dqt>n c i {^axc d^avqtu^ai qv vpw c euk/ o cf kc rqrkk^apk c rqrk^{km}wu euk^ov xcttpk= u v xcpcem gi {^anc^adep qn{cp vgt^o u| gv^{gm} cnkm eucm cmqt²tvpgm ki c|^ap c o ci wn j kcv^au^aj q|. co knqt km o²t^vng^ancn g j^an^fcvqu pgf xpgm gm gv^{gi}gv²i gknv hgtku¹kn0 O gi ngj gv c| qpdep) j qi { Dqtuqu Kwx^ap wco p^an g| c o gi hgtf¹qv xku qp{ c vgt^o u| gv m¹4³4¹ l^av²nc xqn= eucm cff ki xqn d³eu go dgt. c o¹ o gi pgo p²| v< o k xcp c rj^atdcpA o kj gn{v c| qp^avugw. pgo ngj gv^w xgrg d¹pk= j^a| u^atvqu. n¹4³4¹4¹ n¹4¹ ngw. r³4³4¹x xgtgnf gw= r gf ki m¹4³4¹pdgp qn{cp l^ao dqt go dgt xqn. o kv c d^at^ap{0 C| kuo gt ugk o^at c| v c| gm²peu²i gv euk^an^am hgn ng< j qi { i f²ngn w Dqtuqu. f²n^wp Rcr tk^au^e0

F g nk xqn j^av Dqtuqu Kwx^ap wco A j qi { kn{gp pci {qp o gi ngmt>rc wf pk o kn{gp xqnA j qi {cp xqnA

P q wi {cp n¹u| km tclvcf. v^u| v^{gn} q^{ixcu}. j qi { pgo xci { Mqo^atqo dc xc». m¹4³4¹pdgp pgo n¹tf g| p²f. j qi { nleuqf c Dqtuqu Kwx^ap wco A

J^av pgo kuo gtp²f c| v c fgt²m u^arcu j clf An¹r^atv nk c x^atquj^a| c gn w u| qnqw uv^a| u^arp k o kpf gp n¹gf gp o gi eu¹4³4¹4¹4¹. |³4¹ fqm^ap{dep. n¹m pcf t^ai dep. u^ati c | uk/ p>tten n¹j^ap{xcA c ngi o ci cucdd ngi²p{ xcno gpp{k x^atqu/

j clf À n³4³4⁰ C dclwuj c ku Ài { ^am n³ vgr². o kpvc n³f rgmg.
 cnkv p{^atuqp ngtgu| v³n ul qmcm ³Àpk⁰ ul qmc c vgnkpvgvu
 h d³f» wtevc uguuk>d>n j c| c n³f²tpk o kpf ki. u c xgpf²i gngv
 j ³kqi cvlc ³4ul g. o knqt c H³À kv p pci { j crgd²f gngv cf pcm
 c o ci km^awu wtck⁰ ³Àn c dcmqp. o knqt c x^atqu n³ueukc
 wc| km xcmj qxc c| | cn c p²i { ul²r n>xen qew³v³tc. xci { fg/
 r w³ek>dc⁰ Glp{g. j^av c| v ugo n³wcf. o kf p c r kceqp c
 n³lf³m n³uctck>n n³ktqi cvlc c| ²tgvrp dctcenqv^a h³rpm^a o
 v rg pci { qp# pq. xci { o knqt tperlc xcp u n³4³Àj qtf q| |^am
 c vgo r n³o k |^aul n>nev. j^av cmqt pgo go n³ngl gn ctte c
 j cvm cu pci { h³tktc. cnk n³dqi » o gp²dgp. eucvqi » vct/
 uqf qu netffcn h³ti » n³n³tf^axen ul qnqv o gppk c h³ku| vg/
 r gpf ³À gn w u xku| k c| gi { km gl ³Àvp{gn n³o r^auvA P q. gl
 c| c Dqtuqu K³w^ap. c n³kt n dgu²rgn⁰ J c r g f ki o kpf gl gntg
 pgo go n³ngl p²n c| eppcm c v p³À^ai c. j qi { uqj c ugo n³m³n
 Mqo^atqo dcp. co kr gtu| g pgo c v g j kd^af⁰

Dqtuqu K³w^ap wteco c n³gl qdd go dgt xqrv c xk³i qp.
 co k³gv eucm kuo gtpk n³g g⁰ P q j qi { guv²pn³pv o kpf ki n>v{c/
 i qu h xgn ul qnqv j c| c o gppk c| ki c| = o gi. j qi { h³rgu²i²v
 tgpf gup o gi xgtgi gwg. c| ku ki c| = j cpgo gi {²d j kd^al^av
 c| w³p ngtguxg ugo n³g vgwcn³rp⁰

Gi ul gt. ô ²rrgp c m³n³qtkecv³4²unqt v³4^vpv ô Ài {
 go n³ngl go t^a. o kpvc vgi per gugw xqpc. cddcp c| gul vgp/
 f dgp. co knqt c n³rkpkuc vtqp{dc h³rg À³v m c| À j ctep/
 i qnev. vgnkpvgvu Mqo^atqo x^ato gi { g pci { ³Appg²n{j gl
 n³ul ³Àv. c h kur^ap wtevc kmcv³m dg. co kv o ci {ctwn Ài {
 j ³pcm j qi { kpvgm vq⁰

Lclj. o k³gp r qo r c xqrv c|. o k³gp h³p{gu²i c| gi²ul
 x^atqudcp= c| gi²ul pgo gu²i n>j^avq³ l³4w dg c t^aew^ap
 x²i ki. pci { |^aul n>nev xkvgm gn n vgr r^apvkn³m³nen nqu| q/
 t³Àmen c vgnkpvgvu h d³f» wcm xgl gw²m c l^at^auqnev c|
 gum³v wcm³en nk r ktqu. nk xk³i qu n³m o gp²dgp. uwl³uqu
 f qm^ap{dcp= xqrv qw gi { ³À. cnkpgm euwrc ctep{>tc xqrv
 o kpf gpk i qpdlc j gn²dgp. c o^aukmpcm o²i c n³gpi {grkcuc
 ku euwrc o gt gl ³Àv. o ci c r g f ki c h kur^ap ³À gi { r qo r^au
 ctep{qu j kp>dcp l³4w. o gmvgw v³gn³v ³Àk n³xcu. qn{cp
 ul²rgm j qi { pgo n³g v c| v r g³tp⁰C| we^anqp n³vgn n r g f ki.
 gi²ul c x^ato gi { gi^a| ner w^aki. qw^amcm c e²j gm h³rg n³f³xc
 uqt dcp c o ci wn |^aul n>km³en j cv go dgt n³ngw c wcn³eue²j
 |^aul n>l^av go gpk p{qre c o qp^atn³v. c euk o cf k^an³v ugo
 d³f³xc gn n³xgugdd ³4 o guvtp²n c| gi { km |^aul n> r ktqu ugn{go /
 d n xqrv. c o^aukm n³ngu ul ³Àn³d n u ul^a| o gi ul^a| ul cmi

mqdqiqw o kpf gi {knpp. o gtv xcrcj^ap{ n^ap{ l^atlj g| o gpv
c x^atqudep. xcrcx k o guvgtgo dgtj g|. ul qn^au xqrx j qi { c
e²j |^au| n^al^atc gi { ul cixi qv cl^apf²nq| | qp0 M^ar| g^aij gvpk c| v
c uqm ul cixi qv# J^av o²i c| w^ap c| kunq^an^au i {gtgnm co kpv
j qu^al^adcp hgn xqncm^a n^al^axc c| kunq^an^am gn w. j^av o²i c
eki^ap{qm r ktqu 3/4^agvdgp. o gi c r qn^atqm | gpgnetck r qhqp/
eucrqw n^aer r qndcp# Uqj c pgo n^awcm Mqo^atqo dcp kn{gp
fqni qv^a/ddg#

J cpgo o kpf g| c uqm ul²r eucm c| w^ap xcn^a pcr v^a/
v^apv. j qi { Dqtuqu Kux^ap wco guvg c pci { ul cixi^an^aud^an
j c| cxgv f^{3/4}w c o ci c eucn^afk v | j gn^a2j g|. cj qn x^atw v c
n^au| xceuqtc. o gn{p²n c xk^ao² u l^ao dqt o gp{geung. nk
o kpf gpdgp l^atlg n^agf x²v ul qmc n^agtgupk cffki o gi ugo
lgrgpv. co q^a Kux^ap o ci c l^an pgo n^anq^aw u eucm c| w
v^ap ul qn^aw o ci c ku n^ag^apk c| cu| w^aij q|. u c o c tcf²nj q|
n^avpk0

ô J^av v^a cuu| qp{. o qpf f eucm j qn l^atv^an gi²u| pcr A
ô n^atf² Kux^ap vgnk^av^an^agu o qi qtxcu^ai i cn v^aj²pn^agf xg c|
cu| w^arc0

ô J^av o gi p²| vgo c uqm nwo kpcv^av^a *2twf knwo kpcv^av^a
c| gi²u| x^atqudep. co kv j qipertc euk^aipcn0 lcl. j cmc
ngpf. o gpp{k ul²ru²i n^agu| qw# C X^ai/Fwpc j q^al^ap^an xcp
euk^aixc gi { pci {/pci { n^aer w | 3/4^a i cnd^an^a 2u |^au| n^and^an^a
c| w^ap o gi r cr ktqud^an0

ô J cmi cuw# lqddcp wf qo²p. j qi { o kd n xcp0 J ku| gp
2p euk^anco 0

C| cuu| qp{ gpi gf gw²u hqn^acv^a0

ô C| w^ap c x^atquj^a l^acn^ap nk xepcem tenxc pci {
dgv m^ao r^auqmer000

ô P gngo o qpf qf AJ ku| gp²p o ci co euk^anco c| vo kpf 0
O kv²tv^agu| v^acj j q| 0Fk^am^axcp0

ô C| w^ap c U| gpvL^apqu n^ar qp^alc gn w000

ô N^awco c| vku pq. o kpgmdgu|²nul t^arcA

ô Fg c| v pgo n^awc ngpf. j qi { c | ukf^am o kn{gp f kcf cr/
n^aer weuk^aipcmc x^ato gi {g/wec x²i²pA

ô \ ukf^amA ô u|^an hkn{ o^aixc Dqtuqu Kux^ap wco 0

ô W{cp o^at o kveuk^aipcmc | ukf^am pqA

ô J clj # c| n^agu| o²i eucm c ul²r# n^aer qw tclv. t| ukm
cuu| qp{. j qi { o²i ku x²i v^atg xcrcx k A l^afqni qv o qpf j cv c|
wt^apcn0 Ugn{go d n n^agu| c v^avglg. d^atuq{d^an c| cixc. euw c
g| Auv ctepc{ o kpf gp echtcp i tclv. o kpf gp n^ao r^au n^am o gi
Rktqu ntku^an^adc v^axg0

ô O leuqfc# ô nk^an^a hgn Kwx^ap wco. nk^ag| c o c/
i cu| wñ^au ngl f gw kpi gtgpk0 ô J^av nk gpi gf vg o gi c | uk/
f»npcm j qi { qn{cveulk^arlcpcmA

J ku| c x^ato gi {g hwpf wñ^ap xcppcm ewtkerku hwpf wuq.
ô hngugnvc o gp{geung ô qwc x^atqu pgo rctcpeuqñ0

G| c fgtqi^an^auc c x^atquk cwevtk^aupcm vgrigugp hgn/
dqul cpv^a Dqtuqu wco cv. o quvo^at Rer tkñ^au xqñ0

ô C|v pgnggo pg o qpf f. j qi { c | uk»mugn{go f kfcñ/ É
kxgv eulk^aipcm c|v eucm c dqrupf pcm o qpf f. 2p r g f ki dqrupf
pgo xci {qn0

ô O^at dk qp{ r g f ki 2p o ci co ul go gko o gn n^awco =
gi { x²i ugn{go . gi { x²i d^atuqp{ n»i c l³/4f ki 0

ô Igi gu vgtkpi gwg# J^av 2p dqrupf xci {qm j qi { 2p
pgnggo o gtgf c|v o qpf cpkA J^av dqrupf xci {qm 2pA O qpf vc
c|v pgnggo xcrcnk v{gpj cv gul vgpf crw. j qi { c vgnkpvgu
pgo gu x^atquv ul qn^anjo . j qi { 2p dqrupf xci {qmA C | uk»m
pgo eulk^anj cpcm ugn{go f kfcñkxgv. o gtv plpeu c| gi 2ul
qtul^ai dcp cpp{k ugn{go . co gpp{k qfc gr^ai xqpc. c| w^ap
o gi c | uk»npcm ugo o k n³/4 Am c| kpugñ^av j q|. o gtv eucm
c ngtgu v²p{gm ncr pcm h kur^apvA o gi c| v²p o knqt c vgnk/
vgu pgo gu x^atqupcm gr^ai r cr ktqud»n 2u | 3/4f^ai d»n eulk^aipk
f kfcñkxgv. j^av cmqt j qn xgpp²m c | uk»m c ugn{ogv. fg
o 2i o gi ugo gpi gf p mpgnkñ0Vwf qf/gA

ô O^at r g f ki 2p c wrcf qp ul go gko o gn n^awco . o 2i
c ugn{ogvku o gi wr qi cwco 0

ô J^av cmqt 2p dqrupf xci {qmA ô qtf^a c| cu| vcn
n³/4 gr²tg Åxg Dqtuqu wco 0ô O leuqfc kngpvgrp cu| qp{ c|.
cnk c| w^av gt pgm gtgl²xgn/dqrupf pcm eulk^arlcA Pq. o gi/
^aml. vg r qnqtc vgo gw o clf o gi vep^amm 2p v²i gf gv. j qi {
j^agu| vgrlg nk gi { tqul cu| qp{ c| w^av dqrupf pcm0 J qn
gi { n³/4 nA

C l^ao dqt cu| qp{ eucm o quv d^apv c o gi. j qi { c| knw/
o kpcv«t»n dgu| 2n= ul gtgpeu²tg c twj cu|^at^an³/4n qw nkpp
c| wf xctqp gi { km ul gf gtl^a»n c o^a uknj q| xqñ n³/4xg= u o q|
c|v qppcp Dqtuqu wco pci { n³ppcn ngqf qi cwc. cff ki c|
cu| qp{pcm kf glg o ctefv cl»v cdrcmqv dg^atpk 2u gnqtr/
ul qpk kn{gphqto^ap nkppctngul w²p c hgp{gi gv f| l²tlg0

Dqtuqu Kwx^ap wco o gi n²x²p c n³/4n gn u pgo wfx^ap
dgo gppk c| cl»p. n²r| gnj gypk o leuqfc rqi^ap{ f³/4³o d³/
n²uvo q^agnvc| qp=3/4ul ghwqwc n²to^atc c| gi 2ul wec p²r g0

C p²p²o cu| qp{2m c d^av^ao wco 2m euk^aq^aw^am gp/
i gul vgn²m c jctci dcl³/4v l²thkÅ. co kv n c| o 2i ul krcledd

ngw< gum³af³aw o gpp{tg h³af tg. j qi { u²w| gfk j^a|^av. Ài { xgu| k nk dgn ng c hgru²i²v= o²i ku o gi xgtk u|³4p{gp= cdd>n pgnk pgo ku rctcpeuqn ugnk o gtvc j^a| ku c|³4². o gi c hgrg/ u²i ku=j^av pgnkugpnkpg dgu|²n²gp0

Co l^ap v ¶i {³4u| gt³4hgpv p²p²o cuu| qp{²m j À|^am xqp/ l^am euknr ¶i^am qf cxgv³4f kmc n²to^atc I cri » u| qo u|²f0

I cri » u| qo u|²f dgu go dgt xqn= jctepi q| » xqn0 P go euwf c. j c v³4d gu| g xqn. o l^apvo^aupcn0

ô J^av o k dcl. u| qo u|²f wco A o k dclA ô n²tfk t²u| v xgx vnkpwgn Dqtuqu Kwx^ap wco »n o kv xgu| fkm ng/ i {gm gf g| gnc uqmcuu| qp{p²rr gnA

ô O k dclqo xcpAJ^av j qi {pg xqrpc dclqo AC| c dclqo xcp. j qi { c hgru²i go gpi go gv dqmpf pem wct0 O knqt c| v o gtk c u| go go dg o qpf cpk j qi { c |ukf »n pem ugn| go d n ngu| c f kcf c³4x³Am o gi d^atuqp{d>n0 J^av dqmpf xci {qm²p. o kAxi {³4n³4Axi c| nA

ô Mk o gtk c| v o qpf cpk ngi {gm gft n Dqtuqu wco nADqtuqu wco³4n³4A| p xgtgo o gi c| v pgo ngi {gm gf0

ô J^av c hgru²i go. c| kuvgrpvgrp cuu| qp{0 Fg v³4lgo eucmdg c| clv. o clf o gi o wcvqo²p. j qi { nkc dqmpf A

ô C| v w| {cp l>n vgu| k ngi {gm gf. ô dk³cv³ I cri » u| qo u|²f Kwx^ap i c| f^av ô o gi ngm xgtpk c| cuu| qp{v j c xcrc o kv x²w< r²p| qrcxuc. cuu| qp{ xgtxg l>0 | p ku ugi ¶igm ngi {gm gf pgn0 J^av o kgn cnetlc ngi {gm gf o gi xgtpkA G| gn c j kx^ap { n³4²ngnA | t ku c| xcrc o kv ¶i { . j ku| g| u|^a/ tc|0 G| gn pgo h³l c| Æ²u. eucm eucvqi0 J²v d tg xcp c| cuu| qp{u| go²n²pgm hgn ugo xgu| k c u|^atc| n³4grg0 P q p²|| g eucmngi {gm gf0

C| | cn I cri » u| qo u|²f o gi hqi lc c n³4²n o^aukm x²i²v. rt>dcdk qp{u^ai ngf x²²tv c o ci c j^av³tc Æ³4w xgrg gi {gv. Dqtuqu u| qo u|²f j^av³tc ku ngw v²o pci {q0

ô P q. w| {g j qi { pgo h³l A

ô P go^ao. ô dk qp{¶i³ Kwx^ap ô r g f ki dk qp{ h³l c|0

ô P go ¶i { ngm d^appk c| cuu| qp{p²rr gn0 O gtvc| v o gi / u| qn²c²u c| v³p hgn ugo xgu| k0 Vcpwlc o gi c| v ngi {gm gf v rgo < o knqt²p o gi cnetqo xgtpk c hgru²i go gv. g²dd dg^a| wcvqo c n³4grg l>n u>ux¶i dgp= qw^a| km gu²v n tgi i gki . gi { gi²u|²u| cni³p^av= cmqt ngj gv c| w³p xgrg xgtgnf pk wf qo . j qi { cnk gi {u| gt o gi xgtgm xgrg. uqj c pgo n³4x^aplc v³4dgv0

Dqtuqu Kwx^ap wco pem pci { xk³i qu^ai v³o cfv c hgl²dgp0

ô J gn{gugp dgu²n c u|qo u²f0 Gi²u| ki c|u^ai c xcp0
C|²tv pgo xgu|k ugo o kdgp c|²p hrgu²i go c xgt²u0 Ug pgo
u^a. o knqt A³/o . ugo c u|qo u²f qmpcm pgo rcpcl nqf km
o²i eucm j c|c ugo u³/4nkm c| cp{l^aj q| uqj c0 O gtv pgo h l
pgn0 P q o gi^anl. nkcpwnc o^at c o »fl^av0 O clf o^aun^r
ngu| c| gl w^ap0J qnc ucl^atA

I cri » u|qo u²f gn ngtgug pgnk c ucl^atv vgrg ku o gt^a/
vgwg x^a|| gn cddc c| w^ap dg^a| w^amc n³/4grv0

ô O^at o quv eucm »v o²i dgrg gi { o ctqmmen j qi { l »
u|^a»u ngi {gp0 i { pk0 J qmper tgi i grki j cff^a||²m kw gl c
n³/4²n cff ki hgnA²l²m hgn u|qo u²f c rcf n^autc. pg h²rlgp<
o clf hgn³/4v o²p l »nqt. u Aⁱ { grxgtl^am n³/4 cnetewen c| v c
i qpqu| cuu| qp{v j qi { r²n^a vxgi gvt»r xcrcv gpp{0

ô G| c dgeu^argvu go dgt pl[#] ô u| »n Kw^ap i c| f c.
I cri » u|qo u²f qv o gi³/4ni gwxg0 ô P go j k^adc dgnu go dgt.
n^au| km j qi { ki c| go dgt0 P q. j c xcrcj c dclc ngu| c x^atqu/
j^a|^ap^an j c xcrcj c dg w^an^am euwmpk eucm²p pgngo u| »n
lqp. ô uqj cugo hrgvlgo gn j qi { ki c| u^ai qo dcp r^atvqo cv
hji w0 C| v c n³/4grv gn pg nr lc xcrcn0 C| w^ap tgi i gn nqt^ap.
w^alc ngi { gm gf. o knqt c neneu o^auqf u| qt mnqt^a/#

ô Kw ngu| gm kw ngu| gn[#] ô dk qp{q| qw I cri » u|qo /
u²f. dgwu| nqrxc Dqtuqu wco cv c h^aunco t^adc u rghmgw^a
vu²r gp c j^atu^ai {tc. cj qngnku u| wpp{cf vu²r gp0

I { |vgm c neneuqm mnqt^acpk co ^a Dqtuqu wco qw
c u³/4²v nco t^adcp hgr²dtgf v0 I cri » u|qo u²f dg ku j c/
tcpi q| qw. xkuu| c ku l³/4v. o kg h³/4d^avc n³/4wepk pci { ekd^a/
n^auqmer0

ô P q. u|qo u²f. wi {cp l »no gi^a| qwc|²llgnc n³/4²n0

ô O leuqf c n³/4²nA ô n³tf g| k Dqtuqu wco . cnk j kt/
vrgp²dgp c| v n^rr| gng. j qi { dggugw c vqtqp{dc c| gu u c
j ctcp i n³/4²n^a| qwo gi 0

ô J^avcn^axgnc ngi { gm gf hrgu²i²vo gi cnetlwnxgtpk0

C|²p hrgu²i go gv[#] ô nk^an^a Dqtuqu wco hgr cv
wpxc0 ô C| v u|gtgv²o eucm n^avpk j qi { nk cnetlc c|²p
hrgu²i go gvo gi xgtpkA

I cri » u|qo u²f gprgxwg o ci^av. Dqtuqu wco r gf ki
j ctci w^aq0

ô K^agp v²l^ammen pg l³/4l³/p pgngo I cri » wco nqt^ap
tgi i gn o gtv co k^agp ki c|. j qi { I cri » wco dgnu go dgt.
qn{cp ki c|. j qi { j c o gi ner qo c rtwu| rkn^acn^atl^av. o kpl^atv
n^anu go dgt ngu| gtt n c| w^axctt »n eucm pgngo ctt »n dgu²n/
lgp. j qi { c hrgu²i go gv o gi xgtl^an0 O knqt qn{cp cuu| qp{

plpeu v̄/dd c x^atqudcp0 C| v̄p uqj c gi { Àlcn ugo p{Ànco
j q| |^a. co k̄vc ¾u| gngt ãv̄ãp̄m000

Gttg c dgu|²ftg c| cuu| qp{ ku nk|^¾v. j q| vc c l» u| ¶k/
xk^a o ¶k» r^ankpn̄v l» r wj c ek»xcn ngvgwg c o cmqo m/
cu| vctc c u| gf gthc cr̄0 C n̄v u| qo u|²f kxqw gi {gv dca^a v̄i /
r qj^atpcm o^auknev gi {o^au gi²u| u²i²tg. jcto cf u| qt r gf ki
c| qn̄tv c|^a r fqw l» cuu| qp{qn̄tv. cnkm c| wtcknev Æi {
o gi dgeu ãkm o kpv Dqtuqu² cuu| qp{qo 0

ô C| v̄p o c o gi ngm p²| pk c rct^af²v. ô o qpf c
Dqtuqu wtco I cri » u| qo u|²fpcm ô gl o gi r̄x²p. o gtv
co k o c rgu|. c| v pgo r̄vlc^a o I cri » wtco gddgp c r w{nc/
p{qo »u xk̄i i dcp v̄/ddgv0 O²i c | ukf »npcm ku qn{cp o ci cu
f kfc cr̄k^¾m rgu|. j qi { c n̄gi {gnv gvgm vqtp{c gn²v̄ rj cypc
cr̄wco Wi {g cuu| qp{. vg o ci cf r̄wcf A U x²i v̄ Æn x²i ki dg
rgu| xqpxc xk^ai qu ugn{go /²u o gv u| gw d^atuqpp{cn= wi {g
cuu| qp{A o kpf gp ¶^au ki c| k ctc p{d»n gl Ævd r# Gij ki |lg.
I cri » wtco. o gtv c hrgu²i go r̄wco Gu²tg c| v̄p gi { Æv
xceuq^a n̄pmu gi { Æwp² | | Æmo gi c| knwo k^a v̄v̄0

Co k̄vj qi { Æi {ku v̄^¾v̄²pvpci { ¾^¾o dgp² u xki cu^a i dcp0

Vcpw^a i r gf ki gdd n c|. j qi { cnkpgm ngf xg v̄ o cf c
xgtgnf² u j gl. uqj c ug xgtgnf l² m c| | cn co k c ngl² dg cnef
ô u^atc| qp. j cpgo gn dd^a | vcuc dg c| v l»n w»ux ¶ dg= gp/
i gf lg^a | pk gi { gi²u|² lu| cn̄p^a v= cmmqtte c| v̄p c xgtgnf
gu| n̄^¾ o gi ngo² p{ Æn j cpgo c j ctc i o gi r̄i | {w0

MMNCP EU—THK

Mwncpeu Æt qn{cp go dgt. cnkv n o gi pgo ngj gv u| cdc/
f wpl0 J c gi {u| gt o gi hqi qw. plpeu gugv t^a. j qi { grgtguu| gp=
i {cmj qm| j^a tqo o² th̄^¾ f gv ô xgnf o gi { nct^a v nctqf dc
¾nk o gi n̄tf gl k< j qi { xci {. o kpv xci {A J qpp² v l^¾u| A
j qx^a o² i {A O k Æu^a i qv wf u| Au o^a u gh̄² rg o wrcv̄ i qu n̄tf
r qpvcnev= ô gm̄² t o kpf gp Æx². luo gt o kpf gp go dgtv. cnkv
vg luo gtu|. xgnf o gi { r̄vqi cypk gd² f gn ngf xgf² tv. cj qn² u
co kmqt vg cnetqf. j c vg rg Æu| ¶tpk rg Æn qnxcupk j c grj ci {qf
t^a f x^a t c| clw dcp. j c o gi u| ¾n̄^¾ v rg. c| wec v̄ Æu» x² i² p
u| go n̄^¾ v v̄ r̄ m̄u| qn xgn. u o gpv Æn lqddcp dquu| cpmqf qn
cpp^a n lqddcp tci cu| n̄qf kmj q| |^a f² u dgr̄ f 0

- G| c M̄w̄rc̄peu Àt h̄qi qwo gi gpi go gi { p^a tkxcu^a tpcr
 J^a v 3̄p p̄k̄peu c | 3̄4f dgpA ô n̄t̄fgo v rg. o kw^a p
 o gi i { | f̄vgo o k̄pf̄gp u| cdcf w̄i uk̄n̄f̄i² tr̄gvuk̄ngt̄v̄gr̄pu² i² t n
 ô V^a p 3̄p q̄f c u^a p̄f² n̄q| km̄A ô h̄gr̄nv gi { o^a uk̄n̄ t̄/
 f² ugr̄o
 ô K̄gp. ô h̄gr̄n̄? o ô n̄ko gi { gmc Ux^a dj gi { tg0
 ô J̄ ku| 2̄p ku q̄f c u^a p̄f² n̄q| qo . gi { Āw o gi { Āpn0 Xcp/
 pcm^a tucun̄q̄euk̄n0
 ô Fg² p i { cr̄qi u| gt̄gv̄gmo gppk0
 ô Oci co ku0Vḡj^a vi { cr̄qi o gi { Āpn0
 ô Fg² p gi² u| c L^a p̄qu| j gi { k̄i i { cr̄qi o gi { gn0 *G| gi {
 l̄> r̄ct̄cu| vo² t̄i3̄4f 0+
 ô Oci co ku² i n̄t̄ u| Ān̄3̄4mq̄f c0
 ô Fg² p eucmf² n̄w^a p u^a p̄f² n̄q| qo n̄ko gppk0
 ô Vḡj^a v̄j cr̄cuu| w̄mf² n̄w^a p̄tc0J q̄nh̄qi 3̄p cf f̄ki o w̄rc̄pkA
 ô Qj . w̄pc̄m̄ cu f̄q̄i c̄ko xc̄pp̄cn0 Z u| gt̄nḡu| v j 3̄4 nḡm
 o gppgo . o gi [Āi { x² f̄j gl 0
 ô Qj . 2̄p c| q̄n̄ev o k̄pf l̄>n̄ ku0 gt̄go = j c p̄go v̄gu| km̄
 w̄f̄pk̄j q̄n̄rc̄nc̄m̄ 2̄p gr̄x̄gl̄ gv̄go 3̄p̄v̄j q| |^a l̄wn0
 ô Fg gr̄dd c n̄eu| k̄p» n̄3̄p { x^a t̄p̄q̄n̄i v̄nḡmh̄gm̄t̄gup̄go 0
 ô Dt̄ex̄kūko q0J ku| c| gi { j^a | d̄cp̄ r̄cn̄km̄x̄gr̄go 0
 ô L̄cl. f̄g o quv l̄w gu| go dg. j̄qi { C0 v̄p^a eup̄qm̄ w̄t̄ev
 euc̄mt̄gi i gn̄v̄r̄i n̄qo q̄v̄j q̄p. gpp̄gmo gi nḡmc v̄4d̄dk̄v̄gn | p̄k0
 ô K̄c| # j̄ku| c| | cn̄ p̄nḡo ku nḡm d̄gu| 2̄r̄p̄go . gi { Āw
 o gi { Āpn0
 ô K̄gp l̄> r̄gu| . j̄cp̄go o gi d̄q̄e^a v 3̄p. j̄c Ān̄3̄4 dgp gi {
 r̄gt̄et̄g h̄gu| cr̄mf̄qm̄D0p² cuu| q̄p { u^a i j̄q| . cn̄k̄n̄3̄4 gr̄kt̄q̄m̄p̄qo 0
 ô | r̄r̄gp l̄>. j̄ku| c̄pp̄cm̄ t² i gp v̄t̄v̄q| qo gi { n̄i v̄qi c/
 v̄^a ucn̄= xc̄r̄j^a p { u| q̄t v̄r̄i m̄q| km̄ x̄gr̄go c| w̄e^a p. o k̄pf̄ki o gi /
 u| > r̄f̄i0< 3̄p t̄quu| M̄w̄rc̄peu. ūj c h̄gr̄i p̄m̄ugo v̄gn̄k̄p̄v̄e0
 ô Q̄f c x̄ci { q̄n̄#G| o k̄pf̄gp Āx² x̄gr̄go l̄3̄#
 ô —i { n̄p<o gi h̄qi q̄wu l̄3̄4v̄ x̄gr̄go 0C| gi² u| Āx̄q̄p i { km̄q̄rv
 t² i k̄ Āu^a i q̄m̄en² u gi { Āi { n̄t̄f² uḡm̄gn̄= n̄t̄f̄g| un̄3̄4 3̄4v̄
 go d̄gt̄gn̄t̄ n̄ cn̄km̄gn̄ j̄ct̄ci d̄cp̄ x̄ci { q̄m̄ x̄ci { cn̄km̄ o gi j̄cn̄cn̄=
 f̄leu² tv̄ f̄q̄i q̄n̄ev. co k̄nḡv w̄^a n̄qm̄ 2̄p̄gn̄gn̄^a t̄k̄^a n̄ev q̄n̄ q̄r̄gt̄^a m̄
 d̄>n̄ o gr̄n̄gn̄v² r̄r̄gp̄ nk̄p̄go^a n̄j̄ cv̄qm̄ u o² i j̄q| |^a l̄² r̄j̄ c̄pi q̄p=
 n̄tk̄k̄^a n̄c c| cv̄k̄n̄i o u| cd^a u^a v. c^{l̄a} p̄r̄q̄w̄c c u| cd> l̄^a v. n̄k̄n̄t̄f̄g| v̄g.
 j̄qi { o k̄p̄ f̄q̄i q| qo n̄gi n̄3̄4 gr̄ḡddA M̄p̄n̄> f̄q̄w̄ c̄p̄gn̄f̄ q̄v̄ m̄en̄
 o k̄nḡv o^a t̄ v̄| gu| v̄p̄f̄ x̄gn̄ g| gn̄ w j̄ cn̄q̄w̄co . gi { u| > x̄cn̄ r̄w̄u| /
 v̄| q̄w̄c v̄Āt̄gm̄ go ḡ0
 H̄3̄4m̄ gp̄v̄go D0p² cuu| q̄p { u^a i u^a n̄i u^a tc. w̄^a p̄co l̄3̄4v̄=
 ô kw̄gr̄j̄ ci { qo #ô i q̄p̄f̄q̄n̄i o o ci co d̄cp̄ u d̄geu^{3̄} p̄i gv̄gn0

C eu³pi g²utg cwt>n hgm^knqw c ner wu0 i Ugnk ulpeu qf c|c.
o kpf nko gpv^{mc} | ³4f dg#E

O gi eucrcvq w tgo ²pp{gn nwnqi vco xku|c c r²reu p0
Mwncpeu Àt netqo dc ³4n² c o ci ^{a2}v²u gmg| f² pgngo o qpf cpk
j qi { D0p² cuu| qp{u^ai o kn|gp fgt²mcuu| qp{0

Kppgp n>fvnco Z0 u|gtngu| v Àtj q|0 Mkgpexgpj cv
r²r u p o^au|vco hgn qf^aki 0 Lw kgt ugo cmkm o ci cuddcp0
Mwncpeu Àt xgrgo l³4w0 Dgeu³pi gwgo 0 C nkj qtf > nkp {kqvc
c| cl>vu gi { Àwcngr^a mc c| wcv<

ô Mkv²gvu| kmngtgupkA

ô C u|gtngu| v vtcv0

ô C | ³4f dgp xcp0

ô J^avc ugi ²f vtcnA

ô C|qmku c | ³4f dgp xcpcn0

ô V^ap o²i c mcf > Àt ku | ³4f A

ô Kgpku. o kpf qfc xcpcm ²p ku o kpf l^atv o gi {gm
w^apw0

ô O gi^a mlqp. ô nk^anc n³4 dg nuphkp gpugp Mwncpeu
Àt ô eucm gi { r^at uqcten hgn|lwm c u|gtngu| v Àt cu|vri^atc.
j qi { kwxqmwpmxpci { qp hqi lc uclp^a ipk0

C| kqfc |^atxc xcp. ô hgnrvo qi qtx^ap c u|qri c0

Fg ¶>u|gtgm eucm xcpcm nkp. ô xkcv^a Mwncpeu
Àt.

ô C|qmku |^atxc xcpcn0

ô Rcr ktqu ulpeuA

ô Ugo o k ulpeu00 ô u|>n v c nkj qtf > u qf ceuwmc
Mwncpeu Àt uctn^av| cl>j q|0

O gpv²pmC0vcp^a eupqm Àtj q|0

Kv l²n^aki eu³4 gw²pm hgn^anxc. j qn ²p. j qn . o kn³4/
dgp Mwncpeu Àt hqn{x^auv vri^ani cwc< vri^ap pgo j cmq^w mA
vri^ap cnw| pcmAvri^ap gn| cnrf vc eugpi gv^a Æt>vA

ô O gpl²pm kppgp. ô o qpf^ao. x²i gw²gxg c vri^ani c/
v^aupcmô gl ku c | ³4f dgp xcp0

Ki{gphqto^ap dgl^atwpm o²i xci { j cv j gn{gv0 C| gtgf/
o²p{ o kpf gp²wi {cpc| xqn0 Cnk c | ³4f dgp pgo xqmw c
h²tf ntg o gpv0 Gd²f grpk ku j k²dc o gpv²pm qw ku o ci wpm
À²pm c| cu|vcp^a r0 C| wqn> ukngt vgrgp n²l²trgv²n o gi hqi^a o
Mwncpeu Àt ng|²v. u gmg| f go xgrg u|²r gp dgu|² ipk<

ô J cnlc. v²u|vgn dct^avgo. gpi go j qnki rgn³4grg| gw
u|¶xgu w²pco l^at^au^axcn j cpgo o quv tgwgpv uclp^amq|^au/
ucn ngm ³4ppgm wf^atc cfpqo. j qi { o quv ²rr gp qn{cp xcrc/
nkj cnetqm kv o gi n^avqi cvpk cnkxgn cmem culpv gi { nku e¶x>/

f^auqo ngu|. o gn|gv gi { j cto cf kmlgrpr² vg pci { qp hgu|² n| g| pgo

Mwncpeu Àt gi { u| gttg o quqn| i qw ku. j quu| À n^r r gv ku
eukp^a n. u ngl| go gv ¾u| g/xku| c u| qtqpi cwc. grn ctf v c
ner wdcp0

O ci co ulgwgo hgr0 Xci { kvj qp xcp. xci { plpeu kvj qp.
i qpf qn^o. j cto cf km gugv pgo cf » f km Mwncpeu Àt o kpf gp/
gugtg ngu| cnef vc p { cne0 t » n0

Dgp { kqvc0² u grhtf wv xgrgo c xk^a i 0 Kio gt utg vciⁿ /
wo. fg pgo cttc. cnkv ngtgugo. j cpgo Grk^{tc} cuu| qp { u^a i tc.
cnk o kpf gpnk ci { qpdgu|² n cnkv eucm grh^{qi} j cv0 O gi x^a nq| /)
wv² m c u|^a m^a u0 O gi h^{qi} qw. pci { qp ¾À. j qi { n^r v cvq.
pgngo ku qw ngrgw o ctf pgo. x² i tg c | | cn c nkh^{qi} a ucn
²ngo. j qi { qf cgrpp x^a tcnq| km t^a o c ner wdcp c fgt² m dgeu^À/
rgvu Mwncpeu Àt. gi { t² i k l » dca^a vgo. cnkv t² i gp pgo n^r v
wo u nkgn pci { qp » j clvmdgu|² rpk cj j q| ngn xku| culgypgo 0
Eucm[¶] { gtgu| vgwgr0

C| Kwgp c| qpdcp Ài { xgtvo gi c j c| wi u^a i² tv. j qi { dgrn/
lgu[¶] c | v tclco = Mwncpeu Àt eucm[¶] { cp qw x^a tv t^a o c |
clv » dcp. u co kpv nk^r r vgo. o gpvgr grh^{qi} qw gpi go. p { cxc/
n^a uv. ¶ { dquu| wnc o gi c pgo g| ku c |^a r qm^a i qw#

Ugpnk ukpeu qf c j c | c# ô hgrgr² m dquu| cpw » n^r tf² ugtg ô
c | gi² u| xk^a i h^À f gpk xcp. xci { dgrgo gpv c | ¾f dg= ô u
ner qo u| go go tg x^a i xc. gmgl f gm p { cti cprk c | we^a nup.
ngtugxg xcrnk. cnktg Mwncpeu wcv t^a tci cu| j cuuco = ugpnk
ugo l^a tv c | we^a p0

X² i tg o gi uglgo c Vtcwpgt/j^a | cv u tgo² p { go ngn0
Gi { rgrgrv ngrgw rqu^a tc cf pgo u co kpv n^r v² x gn w wf/
wo. c r qucj kxcvknkw xqn0 i Eucmgi { rgtetgë. u| » n^r m Mwncpeu
À pem u dgwi tqwco c | gi { km ner wp. j qi { o clf c o^a ukup
nkquppn0

ô J qn kv c r qucA ô n^r tf go c j^a | o guvgtv n rgrgo
ng| go dgp vctxc0

ô P kpeu kw0 Grn gpv ô x^a r cu| qnvc| o qi qt x^a p0

ô Grn gpvA ô c | ku dk| qp { qucp h^À f ntg o gpv0

ô Qj n^r tgo. ² p wf qo. j qn xcp. ô u| » rnv o gi j^a wo
o gi gw Mwncpeu Àt ô o clf grkg| gvgo ¾pvqf^a ki 0

ô M[¶] u| ¾p^¾ o. o guu| g xcp kf g *eucm j Àu| n^r r² u= gn
xci { qmo^a t l^a tcf xc0

ô J^a v o clf grkku| go² p c rgrgr² v. cf lc kf g ô o qpf c
u| qn^a rvc n^r u| gp0

ô Wⁱ { cp vgi { g o gi. ô o qpf² m o gi ¾À. j qi { o quv
o^a t eucm grn ctf t » rco u co kpv grn gpvc rgr² ngn² p ulgwgo.

c d²tnqeu^amqo^autc. c| gm v hgrhqi cf cpf». j qi { xki {gp xcr/ j qxc. cj qnMwncpeu À o gi pgo ncr 0

Gi { d²tnqeu^a ugo xqr^v c|^amqo^auqp. c| qm ku c |^{3/4}f dgp xqncn0Vgj^a vhwpxkng| f vgo 0

X²i tg j cmqm gi { d²tnqeu^a w³pco |^{3/4}^{3/4}pk= o guu| kt n kvgm pgnk j qi {^amlqp o gi²u xgi {gp hgr0 C d²tnqeu^a o gi /^amv gn vgo = co kv dg cmtqm Æpk ô j^av o^at cmqt Mwncpeu À dgppÀvc nqeu^adcp0

ô Vgj^av o gi { Æpm c |^{3/4}f dg# ô nk^an^a t^ao kv»| cvqu xk^ao u^ai tc n²u| Ængp0

ô H²ngo . j qi { o gi hqi qo gppkg| vc| go dgtv0

ô Pgo o gj gvgo^at# ô o qpf^ao ô o c c u|^apj^a| dcp Xkq^av cf l^am c| v r g f k i pci {qp f leu²tkm²p r g f k i uqj cugo n²wco . r g f k i eucm c|²tv l^{3/4}ngo hgn Rgutg. j qi { c| v o gi / p²|| go 0

ô Vgj^av o gi { Æpmc u|^apj^a| dc. ô xku| qp|^a c o gi ugo o k u²gv gvgo go dgt u xku| chqtf^awcvc c twf cv0 Cw»n ngmgv vctvppo . j qi { o kw³p c| gi²u| x^atqu c |^{3/4}f dg o gpv. v³p c u|^apj^a| n²^{3/4}pu²i g ku qw hqi ngppk u qw ku gi {gf Æn ngu| gm Mwncpeu À tci0

Gi Æwnc| qpdcp ngngo gupp eucn^af vco 0

Kuo²v l»n ng| f vgo o ci co cv²tg| pl0 Gi { gi²u| j quu| À pcr w³p. o gn| dgp c| go dgt gi {gdgv ugo vgw. o kv Mwncpeu À v²tucf^ai^adcp kuo gt u^{3/4}ngv ngtgugw. nkngv pgo vcf^anv qwj qp. qn| cp l»n guggm gpp{k xk^ao . vku| vgu²i gu^adt^a| cvqu n²vpk gi { Æw. u j qi { ugo o k j^alc ug ngi {gp dqrf qi u^ai qo pcm o²i c| v ku o gi ngn² t²pgo . j qi { g| cmemo o cn Mwncpeu À o gi rkmp³ gi { |^atw|²ndgp Gxk^av u o gi wf xc. j qi { c| pgngo kuo gt u^{3/4}o . n²k^apv. j qi { o wcuco dg pgn0 Mcr vco tclv. j qi { xcrn^axgn l»v vj gvgo u qf cxkwo c fgt²m dgeu^a/ ngvu go dgtv c u| gtgvgtgo²n» j^{3/4}i { gr². dgo wcvco²u qwhgrf²o 0 Pgo wf qo . j qi { u| cdcf wpcm o gi gi {o^au»n xcrj c. co gpp{k²g o kv n²v gi {²pk²i gv kuo gtpk xcp u| g/ tpeu²o 0

RGV HKUf P F QT

3: 45 ô 3: 6;

H' NU\ GF VGO Uf VQTHf O 000

H⁴u| gf vgo u² vqtl² o² u xk² i p²cmo gpvgo Oô
J qo^a n² qu ugl² ugmo w²pn² n²f vcmdgppgo .
J qi { j c g²kp² w²qm v²n² m²x²c²o kv.
V²n² m²j c²pgo c ugl² u pgo o q²pf v< o kvA
O²i c| vugo o q²pf v. j qi { o g²n² v²l h²g² o g²plgmA
Eu²mc| vo q²pf v< o g²plgm o g²plgm p²g r k²j g²plgm0
| p g d²g²pu u| »p²cmg²pi g²f g²m g²ung²f vgo .
Uc| cr ckj^a | A²i { g²m c²t²c²f vo ³/₄ ³/₄vgo .
O k²pvc|^a m²o c h²z² dtg²f vgo d²g² o ³/₄ ³/₄v.
Cr^a o j q| . cp{^a o j q| . o²i eu²cmj ¶²go ug l³/₄0
Cr^a o ucp{^a o r g²f k²i d²A^a p²vc² g²ug²m
F g c l» u| qo u|² f q²m n²gvh²z² m²gt²g²ug²m
U x²i cu| v²n² u²w²nc x²q²nc²m²k² g²ph²q²to^a p<
i U²q² j²g d²A²w²lc²p²cmU² p²f q²t h²»m²u²q²t² p#
K²i g²p K²v²g²p²v n²g²t²w²i cu| n²q²f q²w²i { g²t²g²m
C| ci i »f^a u²vk²pi { g²p ugo² t²f go rko gi 0
X²ku| k o ¶²i x²k² g²vk x²i t²g r g²f² v²i r²g²p
H²z²nc²u| v²a m co kv²c²f l²q² ku c| K²v²g²p0
O g²tv²pgo x²ci { q²mo ck²ng²i² p{ c x²k² i d²cp.
F g n²ku²p{ o^a u^a vugo n^a w²co i q²p²q²l u^a i d²cp0
.. t²gi u| A²n ko g²v²g²m²r x²i cu| v²n² m
U gi² p{ l» cp{^a o o cnh²z² t²h²q²t² w²vc x²k² i .
T^a d²q²t²w²h²g²ll²g²nc|^a i { u|² r² t²g u q²w²cp
G²rx²g²v²wh² a² t²vu¶²v²u| ¶²x²g u| c²nc²f v²p0
| f gu cr^a o eu²cmgi { /n² v²n²z² p²p{ g²vj w²nc²v²q²w.
F g c| w²p c²pp^a n²v²z² d²g²v²n²i t²qo n²q²f q²w.
M²le²kt^a | v. o k²pvc u| eu c tgo g²n²d²w²pf^a v.

Ungi { gwgp j ctei i cn^{fb} g u | »ncvo qpf c<
 ì J qi { wku ve pgxgo pgmkof gp hqnc xci { qp#
 J c h⁴apgo cncu| v^a m² p r^{3/4}o vci { qp^è
 J [¶]g o gpvg u | »pcm j q | |^a o ku gr²tg.
 P go ku vgwgo r¹dco cr^a o m^u|^{3/4}d²tg.
 O gtvpci { qp l»nxqnc^o ²p cppcmwf »lc.
 J qi { ¶²tgvgk^{3/4}j ¶k^{gp} rgt»lc0
 Mgf xgo ngtgngf gwdgu | »pkucm¶ dgp.
^{3/4}gi glo j gl . f g dk² p dg ugo p² | vgo .
 Eucmcmt. j qi { o^a t o gi r^{ng}go c xcrc^o kv.
 O gi r^{ng}go . o gi r^{ng}go . n¹vqtu^a i wf lc< o kv.
 Vwf pkxcn» f qmⁱ . j qi { pgo n wo gi cr^a o .
 O km^t c | w³ p c | clw»vtclqmp { k³ o =
 Qn{cv^{3/4}Äw. j qi { c u | ¶k^g ku l¹ lvdgrg.
 U¹j c ugo xqrvu | ¶kxgn¶ | { v¹g r^{ng}dgrg.
 Udgl | gi pgo o qpf lc o quv o k^{pv}gi { mtqp v²x² .
 Dgl | gi pgo o qpf lc . j qi { dgu| gpp { gl vgo pgx² v0
 J^a vc l» u | qo u |² f qm^A mo quvg | vdgu |² rkn<
 ì O qpf vco . u | qo u |² f wco . o qpf vco ²p o k^{pf}² vki .
 P g d^a pvuc c h^k v . c u | gtgpeug hqtf vn
 P gt² mgo dgt x^a rkn^{cddwnc} U³ pf qtdw^{hè}

MWW[CMCRCCT~

M[¶]k Ä/dgnÄnu | qo qtÄeu¹ tf c gl
 C Mww{ cncr ct».
 | j gp/u | qo lcp u | qm¹wkwo ctef pk
 C l^a o dqt wc | ».
 O gtvgrgf grvpggo ncr ²u j qi { j c eucm
 T^a r kn^{cpvdqt}^a tc.
 O gi^a vnu | | c P q² v . j qi { u | n vku
 Xgwdg c d^a tn¹ dc0

C nku u | qd^a p j quu | Äx² nup { cu | vcn
 P { Äw» | nuf kmx² i ki .
 Hgr¹ r¹uv ngt vgp r¹dck
 O^a t eucmerki x² f kn0
 Co kn { j quu | Äc | cu | vcn o gr^{ng}wg
 Qn { cp j quu | Äc r cf .
 M^{3/4} gr g . pgo c uqmÄ¹ u . j cpgo
 X² pu² i o kwj qtr cf 0

f vgm̄pdgp c|^a i {0T²i gu/t²i gp
 Ngj gvgwo gi xgwg.
 Nghm̄ppkdgf lg. pgo v^a o cf
 Ugn̄kpgmku ngf xg0
 Hgl² vgi {knx^a n̄f tc dqu^a v̄
 C r w̄»mngo gpeg.
 Tgf mi {cp^a pv̄ku| vgu ci i j qo m̄n̄c
 O gi xcp tgr gf gl xg0

O qi qtxc x²p go dgt kwc eucr n̄f t.
 U| cx^a vugo j cm̄pk
 U|^a lcv eucm̄c|² tv̄ctv. j qi { rgi { gp
 O kxgn^a u|cpk0
 Kk| gp c eucr n̄f t. c x²p F^{3/4} 3/4=̄
 J^a vc hrgu² i gA
 G| v̄netqu o gp { geung r̄gj gvgw
 Cppcm̄kf gl² dg0

F g c| kf c u| gi² p { l» cuu| qp { v
 O gi xkugng t̄Awn
 P qj c 3/4xgp. 3/4xgp^{3/4} gul vgp̄ p
 O²i pgo ki gp xcp v̄A0
 Dqi n̄{cu h̄cm̄} j clc dgk̄ngp² m
 Tgr eg/r gvtgpe² pgm
 | u o gn̄f lg o kpf l^a tvu| 3/4p { n̄r g
 O cf^a tk̄gul v pgn0

ugo ki gp dgu|² n̄= u j c u| »n u|^a l^a v
 U| kf cm̄qo tc p { klc.
 J qi { c x^a to gi { g c dg v^a tqn̄v
 O^a t o kpf n̄kr wu| v̄|lc<
 O²i o kn̄qt c xk̄f i gl gn̄f xq̄n̄.
 J c pgo euqtf w̄w. eugr r gpv.
 F g gl gm̄j ¶^a xcnc n̄gt gugv
 Gi² u| gp o gi eu^{3/4} m̄gpv0

Qf cdgpp c Mw̄{cm̄er ct»dcp
 ̄i { h̄qtqi c xk̄f i .
 Kk| u| qo qt̄Ap. u c| go dgt xk̄f^a o cdd
 F qni qv̄n̄k̄Anug n̄f v0

Cdrnc eucmgi { xcp²u cppcmku
 ©xgi eucmc hrg.
 Hrg r gf ki »/ncrgp^a tkwo
 Mk² r gwrgxgr0

Rgpf gn{ gu i {gtgmxqnc o²i . o knqt
 C| c| gu gugw.
 O gn{ hñ pcmñ vj cto cft²u²t n
 Ngxkwg c o gu| gv.
 Uco ktclv ko kw/co qwo ctfv.
 C| gi²u| gp u^a ti c.
 Unqtqo o cn[¶]vhwteuc hki wt^a mæn
 Xcp vrg hkn^a kc0

R»| pc x²i²p cdtqpeu c e²i²tg.
 J c x²rg³u| gxgu|
 C u| gm . o kpvc| cnæu| vqwo dgt.
 Qn{ d^Àucp rpi gf g| 0
 L»u^a i d»nc eucr^k tpcmpgo lwqw
 Gi {²d gi { mxcu| p^an=
 C j^a| x²i²p u| wpf kn^a nper j quu| cv.
 P go^a tv. pgo kuj cu| p^ar0

! uco kn{ gp o ci c g| c eu^a tfc.
 Qn{ cp c xkf²ng.
 M⁴Ä³wg c j qo qndwñ npcm
 Uj quu| c. ug x²i g0
 C o g| vrgp j qo qndcp crki vpi
 Gi {/n^a vi { cmj dqf| c.
 O gn{ hngvg i {Äo³æu² vp{ctcpn^a pv
 Mgf xgvgpÄnj q| | c0

C j ctepi u| » c v^a xqnhcwñd»n
 O gi j crpk¹a t kf g.
 Ucl gn²xgf vo cf^at n⁴Äp²| eucm
 Uqf^a dd o gi { ¶| kdg0
 O²i c per ugo uÄkwÄi { . o kpvo^a uj qn=
 D^a i { cf vdd uwi etc.
 O kpj c u^a pcmu| xc vgnkpvpg
 G^a txc eu^a tf^a tc0

C eu^atf^a »nxcī { u^a | r²r²up{ kg.
 Mqr^at f qo dvgv p hgpv
 Ugpnk^ancno gi pgo r¹vī cxc.
 f mgi { t²i km u¹gpv=
 Gppgmku xcrnk gi { mqr qwvctku¹ p{^av
 Cnēu¹ vqwp{ cñ¹dc.
 O kpvj c o qpf vc xqpc< o gpl Kūvgp j ¶t²xgn
 O kv^amu¹ kwj k^adc#

GI [GUVI O QVVJ QP

Dqtq¹i cv^apmcr^ao o cñ=
 Kūqwc l» ¾gi.
 Uc mfx xgo²tvgl gi { u¹gt /
 C| Kūvgp^arf lc o gi #

Uqñ¹pgo xqncō qwj qp.
 Qñ¹t²i pgo r¹vc o^at.
 ©i { o gi x²p¹nc¹ »vc ô
 J lc. c| k^a rgl^at0

Dgu²n¹pmgtt n ctt»n
 Co kpv¹{ gn¹pmgtg l¾v=
 O²i c u¹¶p²u¹gt nku
 Uqmo^au gi {²d n¾¾¾0

U¹go²dgp ì o guvgtu²i go ë
 O quvku pci { u^amc o²i =
 Gn ¶²rgv²vc|
 ì xgmpgo u¹¶pvgn0

ì Pq eucmj kx^ap{ gi {²rgv
 C| c nqo²flc#
 H¹ngo pgmkñ¹ f leu²t²uv
 Mēngwj cmi cvpk0

ì Vwf qo . uqnevnr nēn^an
 O wvdc ku u¹¶pgf 0
 U¹gtgv²o r¹vpki { u¹gt.
 O kpvj^ap{u¹ dwnhgpegnvë

| p o ²tv dgu| ²fkv
 O quqñ(i xc j cmi c^v o =
 F g o cnc^{eu} hgl# H⁴npgo
 Xkñ i quñj c^v o 0

Vqx^a dd^a gñ| cxcnco
 Gi { dqtfcñqo pgnk=
 Upci { qp/pci { qp ^{3/4} ãngo .
 J qi { o gi p^gxgwgñ0

F g pgo vctlc pci { tc.
 J qi { n^{3/4}ñ hkc xcp=
 Gn wg o kpf gp kñ| gu
 F qñi j cu| qp^vcncp0

P go kuñj gveuqf^a ñpk#
 Eucmj ãux^a i^a uj q| ²tv=
 P go uqmj clu|^a ñc j wññnk
 C wf qo^a p { qññ tñ0

W»dd. o kf p c dqtpcm
 Gf² p { g nk ãñ.
 | p ñqi c^vpkñg| f vgo .
 o gi p { wñ qf pkñ ñ0

F g gññqt ul^a | ññ²tf²uagn
 f ñqwgñ cp {^a o =
 Hgñrpggo ñgññ ô j^a vc|
 ñ^a uvcd^{dc}p j ci {^a o 0

| u x²i g/j quñ| c pgo ñgw
 M²tf g| i g^v ukpñk<
 F g pñngo g ññ²tf²ugñ
 Qñ| cp l»ñgu^v pññk

O gtvo kpf gpknv ãññ⁴ xqñ.
 Cj qpñcp ññ^v j c^v o <
 J qi { c h^{3/4}f ^{3/4}p pñngo xcp
 Ngi ul gtgv dd cp {^a o #

RGV HK U CTCP [NGXGNG \ | U D N

Rguv. hgdw³t 450 3: 690

Ngmgo . Ctcp{qo # Pgo xgu|gf v³p tquu| p²xgp. jc
 gjj ci {qo c| 3/4²u0 | p qn|cp go dgt xci {qm j qi { co gn|
 j^a|dc dgo gi {gm u|gtgvo o ci co cv jcp{cw x^ai pk c
 n³f^ap 0 0 0 o kw³p vj^av p^aref dgmqr qi vewco . u v g clw^v
 p{kw³n< o gi gpi gf gf . j qi { gi²u| n³p{gm go gv jcu p^an/
 leo . cpp{kc n kpn³dd. o gtv o^at dca^aqo pcm pgxg| vgrgm u v g
 gpi go gv xku| qpv. 2u²p. t²u| go t n pgo u| qmco g u| »v o kp/
 f gppcr k²tv²dg jcu| p^arp k u tgo²rgo . v g ugo ¶ { cmcn/
 o c| v f tg^ao 0 Kc| . j qi { kuo gtp²pm ngm cppcm lgn²v
 nk^v dca^awpnpcm x^arcu| wpm= fg j ku| gp. i qpf qmco . v g c|
 gp{²o gv o^at kuo gtj gv² o wpm³ko d»n xcrc²kp v²p nk²uo gt/
 vgo c v²f gv Vqrf kf/d»n0 Cnk kn| fleu²p hguv²g c i {gto gnk
 u|gtgvgv. cppcm o ci^apcm ku l» Hk²pcm ngm xci { ngngv
 ngppk. u cnk l» Hk²a c| pgo ngj gv tquu| go dgt. c| u²r. ku| v.
 pgo gu n³ngn0 Kk| gppgm vctvcm v²i gf. u g²tv pgxg| vgrgm
 o kpf l^atv dca^aqo pcn0 Ngxngf eucm o c ngt²nv ng| go j g| .
 kuvp wf lc j^ap{cf km go dgtv n co kpgm o ci co Xci {qm qnc.
 o gtv ghgnglvgo o gi ¶pk u^an³uqo cv. cpp{ktc o ci co qp
 n³k²nv xqnc² cmuqt c| grici cf v³u o kw0 N³vf. 2u o²i ku
 c| cn x^af qipcm p²o gn| gm j qi { 2p gn xci {qm hqi wkc c n³n/
 v m gngp0 G| wf xctku nk²gl²ug cppcm j qi { o ci co qp
 n³k²nv ugnkv ugo cnetqm n³nv pgm kuo gtpk u c| 2n kuvptg
 o qpf qo . g| c ngi p{qo qt²dd t^ai cmqo 0 C| ki c| . j qi { c
 vj gw²i p²m²nv xci { c l²n vj gw²i i gn gn tg vqrcnuf » go dg/
 tngv pgo u|gtgvo . pgo u| gpxgf j gvgo . gri^a| qm²o . jc ngj gv
 fg c xcn»fk vj gw²i gn w ngdqt wqm 2u lo^af qo # Pci { .
 ki gp pci { 3/4³o go tg xqnv ngxngf . c xgtugfv o^at cpp{ku| qt
 gnrkcwco . j qi { n³p{x p²m²nv wf qo 0 O clf ng²qo 2u gm²nv/
 f³o Vqo r^apcn0 Ng²p{^ao o²i c| ku c vcr^ap# f vcl^a/

dcp< Ctcp{. Rgv Hk Vqo r c Kvgp/ntku| wu/Ài {ug u|²r tkwo /
 xk^awu. u j c fleu u²i Æpm pgo rgul ku qn{cp pci { o kpv c
 t>o ck tkwo xk^awu² xqm. fg ²tfgo Æpm Ài { jku| go. rgul
 cpp{k j c v/4d pgo 0 U c| ²tfgo f¶A gi { hcnwuk r cr u^ai. gi {
 hcnwuk lgi { | u²i ²u gi { pci { x^atquk(00) k² 0 0 0 ugo o k0 Fg
 ugdcl# ²p ki ²p{vgrgp go dgt xci {qm u g| gn ku dg²tgo. u j c
²j gp xgu| gm ku. o gi ²rgm j qnqo per l^aki. c| qp vAn r g f ki
 pgo u| qmco ci i >f pk uqtuqo hgn r(00) C vgo gv²uk n²4u²i gnt n
 i qpf qunqf l²m o ^au0 Dk qp{ p{qo qtÀ o gungtu²i g| c o ci {ct
 ¶i>u^ai # xcrc o k j kxcvrv v^ap eucm o ci co ku ncr j cvp²m fg
 cw>n o gi kt>| cvqucp ku| qp{qf qo. u ¶i { pgqp o ctcf o ^au
 j^atc. o kpv< gi {²n ³eu²o. j c xcp o k0 Cj. c rmggo l^al. j c
 gni p f qnqo. o kn{gp dgf wkp xgu| gw gn dgppgo # fg j ku| go
 c| kvgpgo gv j qi { kv p^a n p m ku o gi l³p o ²i c| kf glg. o knqt
 c u| cdcf u^ai ko ^af > r qi ^ap{ go dgt gm ku o gi ²n j gypgm pgo eucm
 c| gi { ki c| Àt gn w cr| cvqucp i ³4p{gf g| l^ao dqt ngtgu| /
 v²pgn0 G| ²tv pgo ku j^a| cuqf qo. o gtv o gi guj gkm j qi {.
 co kv pgo cnetp²m ³4 xgi {gv ²u ^atx^anev j ci {p²m o ci co
 w^ap0 P go j^a| cuqf qo. dct^avqo. r g f ki j clj. dg n²r | grgo.
 o kn{gp u| ²r c| c j^a| cu²rgv. o kn{gp dqrf qi rgj gvul vg dgppg#

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Vg ctep{qm Ctcp{c# C| v cnetwo qfc h²n ¶tpk j qi {
 j^ap{ rt>d^au ctep{. fg pgo wf qo. j^ap{cf km rt>d^au c rgi /
 lqdd. o gtv dk qp{ o ^at t²i gp pgo dcln>f vco ctep{qm n
 co k²tv wrcf qpn²r pg gpi go x^af qn. o gtv pgo c| ²p j kd^ao 0
 Gi tguu{ I ^adqt dct^avqo U²nguhl²tx^attc o gpv xgpf²i /
 u| gtr gntg u gpi go gv ku grj kw o ci ^axcn ²u eucm vgi per gn w
 l³4v Æpm o gi 0 G| v eucm c| ²tv o qpf vco gn j qi { qn²v wff
 o k²tv pgo ¶i vco o kpf g f ki 0 M²4p dgp o ²i j qu| cdd rcw^a /
 nev ku hqi u| o gi ²tpk= o quv c| ²tv xci {qm qn{ r qp vqu. j qi {
 o gi pg j c| wf vqilco c r²rf cdgu| ²fgv. o gn{ j cpi | km kn{gv²p /
 n²r gp< Àl u³4t l>n u³4³40 Gi {²dk^apv o gi pg ¶i²rl. j c
 dgn²4gvng| pgm c j cni cv^au gr qej^a k0 0 0 u| ¶kgo. o kpv o kpf gp
²n j c r p f >». hqn{x^auv u| qnq w f qdq i pk ²u f qdq i ^au^adcp
 j cpi | cpkhqi pgxgf. j c o clf tkn² d dcp ¶i qm ku 0

J cpgo . 2fgu ngfxgu geu²o . c|qmⁿ c fleu²tgvmgn
 jci { l h²n o gtv o knqt qkcuqo . qn{cpqnev rktwqm o kp
 xcrc k o gi i { An x^atqu . jc kn{gpnqt c vAn²dg vcr²ip²m rkn
 rpvcpk c|v i qpfqp^ao . jqi { Pci { Kp^ae qtt^av n²vqo 0
 C|v²p o gi c|qp rktwqm jqi { rktwⁿco 0 | p pgo xci {qm vAn
 ulgt²p { go dgt . glv n²gi f²Ā²ugdd gm²pu²i go ugo hqi jv²c
 t^ao = ul²pv²p gn²uo gtgo . jqi { o gi²tfgo ngo c fleu²tgvgv=
 fg jc ul go dg fleu²tpgm wf1) c| 3/4f3/4 . qn{cp h²teu^ap²t| go
 o ci co cv o kp²jc t²Ā²u xqp²m u pgo xqpc ul cdcf xcnc/
 t>f|pqo 0 G| wi {cp pgo c n²gi cguy gv²ewudd jcuq²n²u . fg
 ki c| = u²p c| c| go dgt Xci {qm nk c| ki c|²tv c ul²r gv ku h²4/
^arfq| qo 0 G| v uq²ncp xgw²m o^at tq²ul pgx²p v ngo . fg jc
 o²i v²/ddgp xgu km ugo d^apqo 0 Co k ki c| . c| v²to²ul gv²u .
 co k v²to²ul gv²u . c| l² u ulgt²pvgo ul²r ku 0 G| c|²p cguy g/
 v²n²o 0 O knqt Vq²rk cu² km u ul^al^ad>n c p^an hq²n² . gl²tv uq²ncp
 ng hqi pcm v²i gf n²4pk fg²p o gi e>nq²mcn0 Gdcf v²#
 jqi { o gtgf c|v i qpfqpk jqi {²p F>|u^at>n o^a u x²ngo²pp { gn
 xci {qm o kp v v²A | p F>|u^av c o ci {ct v²4²pgv gi {km n²gi /
 fleu dd go dgt²pgm vctvgo² u ul gpv²n j ku go . jqi { n²ul kf .
 *jc h²4ppo ctef c o ci {ct pgo | gv+ o kf p F>|u^apcm pci {/
 ulgt go r²mul qdtqv hqi pcm go gpk² u vcr²p o gm²gw n²ul
 c| 000gp²o ku 0

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O gi jcn²n²g . xci { c n²ul gf gv i²4eu d^apv²c . ko^af qw
 lcpn²o . xci { h²grf²f x²i n²r . jqi { r²v²l go²p ku A
 Xci { o k c| 3/4f3/4 n²gn000 j²gf ugo jcm²c c| go dgt 0
 J qi {jc o ci^adc hqi cf v c| 3/43/4m²v d²4eu lg . c u²f<
 Cnqt d²ng xgrf . n²gi {gpgm ul²r^a m c²kf qw n²pp .
 Hgf n²tf²ugo pgo hqi lc | exctpk p {vi cm cf .
 J qi { o k qn²tv jcm²cu² . o²tv n²ugn ul>»pk n²x²ndgp A
 J qi {jc r²gf ki i²4eu d^apv o gpl c r²cv²n²dc u k²ctn²fl
 O gi i {»i {wpk hco . u c|v²p n²l t²3/4 v²4p . c| qppcr 0
 U jc h²grf²n gpi go A J c d²ct^avf xqpc h²grf xg A
 Fglu² Āi { . 3/4e²o . xgu² o gi . n²ka pgo v²ul v c ul kxgo d²Ar 0
 Vg o knqtqp pgxgf gvngdigo o²n²d²g n²ul vcf 0

O kvgw²nAwf qf c| vAi t^apkul km²dc. ce²mcn
 X^ai v²n²rgvp^a vo Æf u p²m²Arkdgv ngv0
 J^av²pAl p pgxgo gvn²eqnco xqpc j qo qndc.
 O gn²gv p²xxngi { Æw. gi { j » u| gm lg ku grh²AlA
 O gi n²4u| 3p³0 . j c pgv²p ¶i { xcp (00)pq f g grj kul go kpn²dd.
 J qi { tqul xgtuglo ku xcp²em o kpvj qi { vg hgrf v²r0
 Nqo j c xci { . kvc dkd²f =tgum² . o kpv1» o ci co . ¶i p²0
 M²trgm j ci { f pgng o c tgv²i gv. r²i { vg ugt²p { gdd.
 N²uf. pgng o Æi { k²rk² *u qn² l>nguk²# Æi { /g ngo qpf cu|
 T»rc. j c²p n²trgm² Æ J cj . o^a t² n² wcmwi qtpk
 O kpv²ci cf qf p { cm² c v²ncv. o kpv²x^a i qf c| qtt^a v0
 C v²pv² dc. o k²n²pvj Æ qf c uqmj quul Ædct^a | f^a v
 C r cr ¶i qp. tkpi { /tqi { gu| o² ngv²xg² dg² l³4m(00
 O gtv²pg ku ¶i l kpn² dd. j qi { ugo d³4eu i qpf q²rcv²mcn
 Vgtj grf o gi r²xgrf ui { qo tqo . o gtv²go o kdq²pf cdd
 P kpeugp. o kpv²c| qn²qu r²xgrgm² p kul qp { Æn²r r gp
 K»| qo v n²Am²v² p o gtv²p pgo wf qm²qn² cv
 Mqo r qp^a mpk c|² t²v0G| o gi r²gj g²0f o f g. j qi { Æi { xcp.
 Gum²4u| 3/0 gttg pgngf. v²Æt»u² u² v² tc. f qj^a p { tc
 | u o kpf g²ph² r²tg o keucm² gpvu ng² xgu gn vgo 0ô
 Ft^a i c nqo^a o cuul qp { . n²gi { gf gv²r²tg o gi c²n²u²cp.
 ©uug ci { qp h²t²l²v² u u| k²lc o gi k²v²gpugp. j c
 O²i gl w²p ugo h²qi pgng o ¶i pk c| km² gp/co qm² cp0
 ¶i lqp o kpf gpt nj quul cp. f g nk^a n². j c n²gi { gf t n
 ¶i t³4k² gp. j c²ci wf pk²h²qi qmo cl² j quul Æj c²ci i c²n0
 Gnpg hgrf lg c d²tpc Ncek² u c u| ng Lw²ku. g
 M²gf xgu i { gto g²ng²v0J^a vc n²gtv² qi { xcp. co gn² pgm
 T»| u^a kp u| go gkp uqm² qt h²Æi i gpgm co ¶i c
 O guul gt³4 Æn²r² r²gmj ¶i xgo j gl xk²vg u| gt²gm² v^a
 | u c eu²pn² v²qtqp { . o gn² c j c²eqn²pcm²w² p c
 O quvul qo qt²Ap j c²mi cv. i {² t/h n²qu| qt² Æ v² h²l² xgn
 Ux^a tlc l³4gp² l²v o gn² r² d^a vt^a v²gu| ku cm²qt
 3/4u| gqo qn o kpv²c n²q²r² w². j c nk²er lc n²gl² d n
 C o cpm²vc j c²n² r00f mo² i c i » n² c h²43/4vg.
 O²rc o gt²gpi² uug²np² | x²p c o guul g xk² l² nd²gA
 O kpf gpt n²cnetqm o kpgng o ng² xgu x²rc. wf p²0
 L^a t²co c| »vc f²ku u|² r² v² l²cn²q².^a o f g v²l² v²gm
 O kpf ki gu| go dg xq²rc. d^a t p²keu o kv²tl²vc eu²q^a r²pk=
 C xgr²v²gm² v²4n²4v²nt² v²wg u| ¶i xgo dg 3/43/4m² 0
 Ul^a t²co c| »vc o ci cu. h² p { gu r cm² v² mn²4 Æn² cj qn
 O kpf gp. o kpf gp pci { =i c| f^a km²rg²mg n²ku² p { eucm000
 Cm²qt gu| go dg l²w²q²w²rc²eu²q² { j cl²r² n²q²vm gddgp

O kpf nleup{ geung. f g c i c| f^a pcmrgmg pci { ²u ul²r #
 Glp{g. o kc hpgg ngnvpi go . j qi { ul go dg fleu²tgmA
 O quvxgul go ²ul tg. j qj »#o kpf. co kvo qpf wco . j c| wi u^a i .
 EuA²{c j c| wi u^a i xqn0Ng cmetwco eucmngp{gtgl pk
 C p ^vtqu wtecv. j qi { 00j qi { 000o clf dgu| gtgl | gp
 Dcm²tpgmxc i { nqpf^aupcmhcm^adc. j c g u²r
 J kxcvcmxcmco gn{kng o gi hqi A²Apk² xgn0
 J lc. pgngo kuj q| |^a ngm^a vpqo x²i tg. dct^a vqo .
 J^a| cuqf qo . wf qf c| v u wf qf c| vku. j qi { l³xf gm gv
 F A²u wcf cm co pgo j wncv| ugdgko dg o k²vc
 U^a| cf km²f gucr^ao grf^a. xci { o gi ug ul gtgl vgo
 Uki { c| gr²r²uj gl pkpeugp o »f. pkpeu#J kxcvcmngn0
 O gi j clvqo hglgo gv. ul²r gp o quqn{ qi pkvcpwqm
 P {^a lcu ul »hqi cf^a u. nfi { »ueA² uA² j q| gr² u
 Ngul ngp{gtgo *u| uktqu ngp{gtgo +00j cj ngul c mw{^a pcm
 P go r gf ki² p pgngo #Rwul^v p c i qpf qrcvku o^a t
 N^a pi hgnj ngvlf²| x²tgu ul go glo pgmgr² dg.
 | u ul *kgo vqo dqn o k²vc j cto cf h eukn. j c
 R^a p{ x^a u n²4gr² vngi gn ul 3/4 f qdlc p{ cm^a dc
 C r^a ul vqt. j qi { c o² pgud nmqeutAf j q) xgl guug0
 P go c vj gtv nh² n co gn{gvj A² pk ngmo clf .
 P go #J cpgo c j^a o »n o gn{ nqt^a vq| | c hw^a u^a v0
 | u co kvki { grxgul v c| vpgo r »vqrlc ugo cdtem
 Ugo r gf ki tci { qi » ul gtul^a o 00 kvp² nkc| ²vgn
 Uc j kvh² p{ AO gi gr² i ul km c r wul vcki { gr r gn
 D^a to kuq^a p{. uc |^a r qtgu ul cdcf² i pgmcrwv
 Xgtj gvkmqif crkx uc dq| »vj cf f v² r lg u³4² p{² v.
 Eucmul cdcf qp l^a tlqp. eucmngti gv guug vA² dgp
 C ukxvci xkj ct^a vu c xkm^a o u^a ti c nfi { »kvô
 Kuvp j q| |^a vqn#Ngmgo o A²rcvku| gtgvp
 O² i xgnvgm ngf xgu j kxgko . f g c| grtci cf » ul² n
 M² r | grvgo ul^a | t² v xkqtr^a l^a dc dgr² hA² v.
 U² v| cnef c j qti qp{. hwi^a n^a o . gm ctef c r ctv.
 Utkpi cvj cd metl^a p c n²4 p² m² Arkvpi gt.
 | u o q| c| qtn^a p | A² i . uc hgnj mf³4 i gpgm² p c
 Ncpvlf gi² dg ner qm u xcf v | | gn| gpi kgnclnco
 J ctu^a p{ j ko pwul qf cv. ul^a | ul qt ul gpv² i kul cdcf u^a i #

Ngmgo hew{co # J^av j qn ku ng| flgo . pc# Dk²p o ci co
 ugo wfqo . j c eum c| qp ngf xgu Alu^a i qp pgo . o kv vg emen/
 o culpv wf pk hqi u| . j qi { Rgv hk o gi j^a| cuqf qw0 Uqj c gl
 ki²p²n lqddcp pgo x^atvco ugo o kv. o gtv n³4 v³pm rgi {gp
 o qpfxc. o kpf ki vctvqco xcico gn{ i ckd^a »n²u nqpnqn(/
 »n0 Fg j c o^at gi²u| gp Ai { xcp. o^at pgo rgi gv v²l³mpk c
 fqmji i cr0 lqddcp 3/4A³4m pgnk o kpv c xcrcnk u|^a | dxcn{v
 cfqw xqpc. o gi Xcu I gtgdgpv t^acf^auw0 C| v o {kxng o^at
 c u| {kgo . o kpv c 35²n dleunc ngw xqpc. o kpf p{ {p» l³n/
 dgp. dgppg0

C o^au j²vgp Apcmk u kpf {vqwo gi { ngxrgv Ucu M³tqn(/
 pcm e³p gl xg. o gtv cpp{kv i qpf qnco . j qi { n³4A³dnAⁿ U cv
 o^atdcp vngt c| 3/4f³4 *c| c nku u|^atp{cu. p{kruc rwf².
 wfqf+ fg j qi { gl gp o gi {²pgm o gn{km t²u²p vctv» nqf»k
 c| v pgo wf vco . c rquc ugo qn{cp dqmpf r gfi . j qi { qw
 v²i gf hgmgtguugp0 i{ hqn{co qf vco gi { nku cte^avrpu^a i
 *o ctu| n³pu^a i + l³r³j gl . wfqf. ²u {vco kuo gtvgvp go dgt/
 j gl n³t ngxrgv0C| { j ku| go . c| »v n³4o gk n³4 vxcp0

Vqo rc O kuw»k c v²ffgn gi { Aw. ncr vco ngxrgv0 C| v
 {lc. j qi { < 30 pgo xcico k r k{gti hk^a ²u gpi go pci {qp
 u| gtgv0 40 pgo gungv 3/4u| g0 50 Dvgi u u| gtgv². j c dqrf qi
 j^a| cu xqpc0 60 Cten³r²p c|²tv. j qi { dclwu| xcp. rcr. u
 c|²tv j qi { n³ed^av xcp. o ci {ct0 70 o kpv A| i c| f c 9 {v0 52
 nt0j cxkf {²tvpgo n³4j gkL»nelj q| o ci^a»00

Co k r gfi c nqo^afcu| qp{v kngv< pgo k²p pgnf
 ugo o k0 Vgrlgup f gur gt^an. j qi { uqj cugo n³v v²i gf v³/d²
 gl²rgvdgp0 Ncek wi {cp x^anki d³ vclc<i fg dk qp{ gn Rgv hk
 d^aeuk o gtv rctk^av {²tv pgngo u c| v grj q| | c³. fg c| cp{lc
 pgo j ku| k c| v o qpf lc. pgo i {gto gm o^at0C euqpn^e vqtqp{
 ku n³4u| 3/4pvr gfi u n³tf gl k<o kmq^t ngu| u| gtgpeu²lgAu j c xcrcnk
 c| v o qpf cp^a pgnk pgo ²tk o^at c| v o gi . o kpf l^atv 3/4u| g/
 tqi {pc klgf v²dgp0C ngtv t»| u^ak gm gpvf w^ap c| qppcn grj gt/
 xcf vcm ô fg gl gm rgi cr³dd l³k r A³pn³4ftg kuo²v o gi Alw/
 pcn0C i »n{c ku gm gpv fg pgo dA³euA³ qw gn x²i n³r 0U^a pf qt00
 U^a pf qt00

Qn{ pci { ngf xgo xqpc Hgrj ngv {p k0
 Dgx²i | go o quv ngxrgo gv fg t³k³ k³ p o^aukmen |cxc/
 tqo o gi u| gtgm k dqrf qi u^a i qf cv0 Vwf qf hco . c| c hqn{vq/
 pqu u| gtgm gungf² u o gi^atv. l» p²j c n³4² xcico k wpcu cu
 fqni qv xgpk0 Ngi {gpgm c| ²p ngxrgko c| qn0 Cpp{kv c| qp/

dcp dkl qp{qucp j kul gm j qi { j c ul gr 0 : /ki pgo . c| qp v \n c|
3/4 3/4 n r xcn u i wqn u e 3/4 3/4 l 2 ki pgo hqi nm r vpk o U cmrp/
v p rgi c n dd0

Kvgp o gi a rf lqp. 2 f gu U p pf qtqo 2 u cf lqp 3022222222222
qqqqq/ul qtvc dqrq qi cdd l 3 k v. o lpv co kn gp dqrq qi vcrpqm
xci p cmo An pcr lck f 0

G 2 tv c euk o cf k a u l n k x a pcv 2 tv r gf ki d qe u a uu o gi vgn/
lgu det a vqf pcm

Ctcp{/pcn0

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D l f \n Lcpm o # K c | u r i ul g t k p v o 2 i eucm cwi w u | w u
4 ; /ng xqpc. f g o kw p t a o r c t p e u q n r n j q i { ul gr vgo dgt 0
; O n r t n f l c m v g i a v g l v c f a wo qv p { qo k p v w c o h n q f c c |
gu vgt 2 ltc 0 0 0 o a t o gi d q e u a uu. c l 2 | w u a r f l q p o gi . j q i {
c t g p f g n v k f p 2 n g n d d v e n n q m f i p { c . o l p v L n e k o q p f l c 0 F g
2 p p g n g f o gi p g o d q e u a v m c l 2 t v . j q i { p g o v g f v c f r e x g r f
d q t f i 2 n i t c c e p o g v 0 C u u q p { f i a u 0 0 0 h g n g v r g e u 2 v 0 p q
f g 0 0 0 v t g o v g w g . g l v c | g o d g t v c l 3 4 f 3 4 g r x k w g # g | o gi /
ul c m e f v c x g t u e u k a r i u d c p . o gi j c n # f i { i q p f q m u f w c o . u
t g o gi x g d q p v w c o h n r e x g r f g v 0 O a u n q t k n g p d q m p f q v p g
v i { . o g t v 2 p p g o k i g p u l q m c o o gi k l g f p k f g j c o gi k l g f g m
u l 3 4 p { v k l g f g n 0 J c o gi j c n u . c m n q t A u u h g n g v r g e u 2 v g v . f g
n g i c n d d c e p o g v o 2 i c m n q t k u v g f i f 0

Vqo r a v r g f k i j 2 l l a d c o g p v g i g v g f . o g t v j c 2 p o c i c o
nk pgo wf w o v o g p v g k d k q p { u g p n k o a u p g o n g u l t a
n r r g u 0 J c X c j q v j q l j q u u c d d k f t g n r 4 g r e l v g o c i a v . o gi /
o q p f j c w c x q p c g l v p g n g o . c j g n g w j q i { q f c k i 2 t n g l g w
c | i n g v n r g n j g l p c i { i { a x a p x c i { p c i { n r v u l p 2 p 0 G j #

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

gn pg ^alwl klgf vgf dgp. pgo r^an^a|qm xgrg= c| | rgn^rr gndg.
xci { c U²r gmM⁰p{x²dg cf qo 0

Mqn»tc c| wqnu» rquc Pci {/D^ap{c0 Ngi n^r4 grgddk
rgxgrgf gy o^at qf c| ct^apf qm^rncuf 0 U gr vgo dgt : 0n^rp guv
qw rgu^l Æpm u j c v r^gf l³p c r^gx²n pg d^lAwl. j^a|cu^ri qo
gnu pcr l^ap ku g^rrkcuqo 0 Cn^rt j ku gf. cn^rt pgo. gl v pgo
o kpf gp go dgttgnvpp²o 0

Vqf kv o quv q^rkcuo j cvqf ul qt0 Eucmⁱ {cp p{qo qt^À
h²teo 0 J c o²i xci { j cw|qt g^rrkcup^ao c| k²p. j qi {
uk^r p{u^a i^a vo k²nlqddcp h^rh^rqi lco 0

Vgppcr xqnco ku^o 2v Lw^rku^ro p^ar^o J gvgn^rpv gi {ul gt
o gi {gm nk j q| |^a. u n^rw|gt n^rer qm v r^g r^gxgrg^o 0 k^lgp r^gxg/
r^gn[#] (00) C| w»u»v gl | gn x²i gl v[<] i Tcdul qn^af xci {qm
o gtv ul gtgvgn^r nk^a n^rp²f xci {qm o gtv ul gtgw 0 ©i { j »f q/
r^gm pgn^rf. ¶ { h^r4g^rngm o ci co j q| 0 O kpf c n^rv j gn| gv dq^r/
f qi ¶»dd. o kpv xk^ri qm h²4w w^rcm^rf j cvpk o kpv kuvppgm
n^rj gpk^è

Ctte r g f ki xgu gw nw{c o »f tc ul^ao ¶qm j qi { Rgv^gp
o k²r^rdd xgp²i go n^ruul 0 U gi²p{ r^gi²p{ xqnco gff ki
ku. gl w^ap. o^a uqf o ci co o cn o²i ul gi²p{gdd rgu gm fg xc^r/
j qi { eucm g^rh^rt Æpmo clf. j c ul qt w^rpm ku. j c o kpf l^atv j^ato cp
h^rmu^l Æpm ku gi { ^ai {dcp. j^ato cp gu^l Æpm ku n^rv v³p{²td»r^o
| u j c j^atqo w^rpcm r^gx²u rgu c| ²v^gn²p o clf c| v o qp/
f qo. j qi { pgo gj gp²o. xci { j qi { dgvi gu xci {qm u k l»n
r^rmqn^o F gpks wg pg ci i »f l^angi { i ctcu^at^a vug^o

J cpgo k^rn^rdd d^ldqt^{dc} d^atuq{dc ³4²4 v^gv^gm j qi { ugo
o²i v³4dgv ¶lcn^o G^ri v rgo gpp{k i g^ri. v^ri^rp uqm k^è
o kpv Xcj qv U³pf qt o qpf lc gi { n^r4go²p{²dgp ki gp n^r4w k/
r^gi 0 Vg^j^a v ci {dc/h dg ³4g^rk²p²u eu»n^rrk^ap dgppgv^ggv gi {
ul^a r^gi xci {qm cvs wg o ctcf qm(00) d^at^a vqf

Rgv lk U³pf qt0

U cm^rpv. f gego dgt 3503: 690

Mgf xgu d^at^a vq. .. p0 C| v i qpf q^rmf. j qi { c| kuvpk | uk^r »
dqndcp pgo n^rj gv h^rn ¶k rctcu| v r^gxgrgv xgppk h^rmtcle^at²tv
x^an» e²f w^rdcpA C| v i qpf q^rmf. j qi { r^gxgrgf t³4k^ru²i²²tv
n^rtr »v^ruv p{ Ælv pgn^go c^rppcm quqdcu^r i cA O gi²tf go gp²f.
j qi { pg x^aru| qrlcn^o —i { n^rw| km gn ugo q^rkcucf r^gxgrgo gv

Ài { vgw| km dgr² ugo r kncpvw³ n mÃ³pdgp j qi { cp ngtÃng
xqpc nk rgi cñ dd c| w»kcv hki { gm gf gv0 Xci { vñ p c|²tv
pgo cncqtqf rññuqf jª | uª oª v o gi ¶pk j qi { ñ vqi cv uqo /
»n ul vtnqñ| 0 U ² r v rñf. l» hKÀ P g h² ñ. eucm o gplgm Rgutg.
c|²tv j qi { qñ cp qdumÃtu go dgt xci { . hgmgtgurm ² u nk² ñ/
ngm gul vgp f gk l³¾ gf gm gf d nu ki gp l». j qi { vqtqñi { wñcfª uqf /
d»nñki { »i { wñ³ n rgi cñ dd o gi hq|vj cvrñcmñqt (00)

f ml o gi xcnõ gt . *wf plknkm ² p. nk r gf ki o kpf gl kf gli
ki gp ngx² u xcnõ gt u² i gv vrcul vñco o ci co dcp+0 ô f ml
o gi xcnõ gt . o qpf qo . pgo wf qf / g j qi { nk c| . nkj gl kn
nqekuj cpi qp dgu|² nu|. nk v qduewtwupcm pgxgl pk dª vqtñqf »k
ngx² u perrcn gl gn w ulª | o gi ulª | lñ mª xcn xkñ i ¶wcvqw
nkA C| v i qpf qñf. j qi { o quv ku qñ cp . o kpv o knqt vg.
U| cnqvª p. r qñmª u i { gt vª f hÃ³³/4i j co xª pª n xgrg quqdc
xgtugm t³/4 v³/4 |² u² dgp xgv² mñf v² ñ0 Rgtul g. j qi { c| 0 Uqmmen
dctpª dd . j qi { ugo c lñ mª m nqto qu hÃ³³/4 u² u hÃ³³/4 nqto c
telc xª nq|ª uv vñ gvgw xqpc. u ki { dª t pci { xª tqudcp.
² p hñwp. c|²tv ¾ ul gkmÃpn0 G| c| qp dcp o kpf eucm v² hc.
ngf xgu nqoª o cuu| qp{. o gtv ² p l² t l² v ul² r hKÀ pcm vctvqo .
uj c o cpfª wo qvo wcvj cvª pcm o gi kugumÃpp² o telc0

Oª unqt v³/ddgv0 Dctª vqf

Ctcp{ L³ pqu0

Rguv lcpwª t 4; 03: 6: 0

J c|ª pm ¾ w³/4 n³/4 / eugmci lc. Pci { tcdgeuÃñv dctª vqo #
P { kuf o gi c vg o ² n» uª i qu hÃ³³/4 k f gvc j cñ utc ² u hki { gn0 X² i /
j gvgvvp hqvqu ² u fgwq uÃ³ i gv u Ãi { dgp kqm vgp² ngf. xci {
Xcj qv Uª pfqt ul gtlpv vgpñgf0 Tgpi gvgi | t| cxc t wcmq/
fkm Gw»rª dcp. o gn{ gv gi { gf Ãñ vg j q| j cvu| vñ v³ dc0 C| v
xkcvª m rtq gv eqpvc. j qi { Vqrf kdcp c| qp qtqu ñ p/d tdg
dwlv ul co ctev ² pgnñngf o gi. nkpgm qtqu ñ p/d tg Vqrf k
uclª v vgo ² ul gw»ñ p{ gtv ul coª td tg r gf ki Uej gf gn0 Dctª /
vqo . j qi { c ul cñcf cvrp ñ tqo ñ uqñ pcm hñk uñ ñ pcm hÃ³/
tª pi cvª u»ñ pcm j cl v² r² ugnpgm rqtq|ª uqñ pcm qñf cñ dxgt² /
ugñ pgm hctdcpkiª uqñ pcm ² u o kpf gppgo f³/4 ¾ p{¾ ² ugnpgm
x² i g ul cñcf lqp. u j qi { pgo | gvgf gv o gi »ff c F» | uª pª n

, Rgv hK Rgutg ² tñg| x² p pgl² xgn lñ mª u | gp² vnñr qw0

f »| u^a dd r qn^a t j^a dqt À»n p {krcvuj| vcu^f nk o k²n gn dd o k²/ fgp o ci {ct. ej k²ck² u j qwgpvqw rcr dcp. j qi { v^g pgo c wf »u Vqrf kv. xci { cnetqo o qpf cpk c wf »u/v³ tuc^a i k Vqrf kv² pgn^gngf o gi 0 Vgff gl v det^a vqo . n² tr^gmc j c| c² u c| go dg/ tk² i pgx² dgp. vgf f gl v0 N² i { c d² ng pgo v lg. ² u c l³ k^g p^f u^a | cf qm^a rf cpkhqi pcn0

Gl c| . gi {gu/gi {gf Ñn gl c| . o k² tv vqmv tci cf wco . xci { wrcf qpnr r r pgo ku vqmv j cpgo l² d»n xcn» dqvq. o gn {pgm x² i g j cukqwj gi {gu ce² n xci { t² | 00 f g o kj qi { ng| go dgp gl c u| gtu^a o u o² i gi { r^a t uqtte xcn» vku| v r cr k²quqo ku o ctf v. dqu^a uu o gi. »j f² | g U cm^g v³ pcm j qi { vx^a dd ku l² tcu| vqo c v^g v² Ñn^g gu² i gf gv. n² k^g m r gf ki dqu^a pcvq c pp {kxcn k² n² dd. o k² v j qi { c v³ ddk pgo rgu| qn² tf gngu. o k² v dgeugu r^g x^g go g^g l^g 0

O w^a p {pcm Xgug² p {k^a ncn xcn» qutqo qnc³ v^a c egp/ uqt d^a lqu n² 4o gk n² 4³ v r^g pi gf gl . hgd² w² t p {qrcf kn² ki qw hqi h² v³ 4pk cm^g t² g² j q| qo u t³ 4 v³ p {qo cvqo . j c o k²/ fgpj cv² u^a i c h² v² i u² t² v² uv pgo n² v dgp^g u pgo etw² k² i^a rlc. co kv n pk² eu o kv tgwgi pk0 C| cl^a p² uv r gf ki eucm j c f f gn j². xci { cl^a p² Xgug² p {k k² cu^a pcm xci { n² p^a u^a pcm c| v pgo d^a pqo . f g Xgug² p {k cn² to kn² gp fgt² m go dgt. eucm pci { Æ. j k² dc. ² u c r q² v^a pci { Æ pcm pg cl^a p² i cuuc ugo o k² v. xci { xgt² v r^g i c² dd pg. j c o^a u xcn² o kv cl^a p² n ku pgn² 0 F g o gi c pp {kxcn k² n² dd. o gtv pgo j ku| go . j qi { Xgug² p {k d² v² n² r^g m² c| qp u² dgp. nk c eu^a u^a t pgx² dgp j cf cm^g/ | qw 00 gl n² v² 4pdgp Eugpi gt { Cpv² n² u| t^g x² v^g r^g *nk² gn n² 4 / n² 4 v² o c f qn² qv² ² u j gn² gu0 J qi { xcp c| ² p r^g f xgu n² qo^a o / cuu| qp { A c v^g r^g f xgu n² qo^a f cuu| qp { l»n xcp u n² k² a ple vku| v u| k² d n j qi { c| ² p n² qo^a o cuu| qp { ku Æ i { r^g i { gp² u n² k² xcp dk o k² p² g² l² r^g l»v. co kv j c o gi^a r^g c| c l» k² v^g p. pci { qp l» rgu| . f g o k² p² c| v r^g f² p² k pgo pci { qp l». o gtv w² c² o cu f qn² i . o k² v o k² p² g² l² r^g vku| v r^g o . eu» n² qn² o u d0 Vg r gf ki . d^a l² v Æ Lcpm» o . pci { qp u² r xgtugv n² v² n L» n² k² pcm c| v c V² r dgp0 Eucm k² r² n² q² l² n² o k² p² ki o qpf wco² p. j qi { rgu| dgn r^g f xcn² 0 | p o quv Ngj gn v² | qo gndgu² n n² 4 v² o² p { dgp. t³ k² / fgp. f g gi² u² ² r^g v² f | uk² d»n c| c n² eu| w² l² ki . qn² cp p { qre/ uqtqu crzcp² f t² p² w² qn² dcp. o k² v c v^g Uej gf r^g f xci { Vqrf k² 0 Gl c Uej gf gn gl c Uej gf gn gl gpi go gv ci { qp Æ r² 3 4 0 O c gu² v² o quv² l² u² c n² xcp+ Gi t² guu| I^a dqt² m»n ki gp l» n² i { ekr »v n² r wpm i { gtg h² n Lcpm». pgn² f ku cf wpm dgn r² 0 F g o kn² gp tquu| gl c vqm c| v eucm c| n² r | g² j g² k cnk gl v c| v² u² v n² v² c. co gn² gv x² r^g v² u² gm c h² 4 f j 3 4 ku x^a i qo o k² p² i {^a t² 0 0 D Æ l

gn lcpm». o gtv j^adqtÀ ngu|. o^at kw xcp c ul qo ul²f dcp.
 Qrcu| qtu|^ai dcp(00) dg ul gtgvp²ngm n>j^avqp r^av^apk cxxcn c
 r^{3/4}i g nccr qff cr0 —i { ki c| # tgp^agrl xcrc0 k cmcr0 cvqu^ai qv
 o gtv xcrc0 k r cmico²v xcp kw c ul^ao qf tc=²u²p pgo wf qo
 nk n xcp²u o k xcp dgppg0 ¶f o gi. nk^ancn²u o kn^ar gp m^ar f /
 lgo gr0 Fg pgo. pg ¶f o gi=²p cff ki nk pgo cf qo. o ¶f
 o ci cf gn pgo l^{3/4}u|²tv g (00) G| l> i qpf qrc0 C| gi²u| r^axgrgo /
 dgp cmcr0 culpv c rgi lqdd0 Fg o^at pgo d^a¶f qm g| gn c| kvgp/
 xgtvg vqr# vku vgrv. eu>nqr v lqddtc dcrtc. c rgi pci { qdd/
 >n c rgi nkugddki # ô Ngxgrgf gv o kpf gp r kmpcvdcp x^aqo =
 u vx^atlwm ko^af cpf » dca^avqf

U| cmprc. hgdtw^at j » 8/^ap 3: 6; 0

GRKJ VQNC RGV HKI G

Ko^af qwdca^a vo. l> Rgv lkU^a pf qt.
 U| ¶k gu Æ x^{3/4} r² u² v^a ¶p g m^ar f kLgcp f)Qt0
 Xgwgo »j pci { l^athk quvdc r^axgrgf.
 Fg c|²tv pgo o qpf qo <j ul nk xci { r^axgrgf
 O gtv pgo Atgu j »n{ ci² u plpeugp gddg ul²n
 Mgf xgu quvdcu^a i o kpf. co kv g dgu²n
 † u c uqmi k /i c| n^{3/4} v j c wi { cp l>n²tv gm
 Xcp uqmu|²r ncr tku. u v^{3/4}dd kn{ dgeugu²tvgn#
 O kpf gp f qni qmgn w<²p pgo ¶f vco Vqrf { v
 J cpgo *g| o^a u ul » vj^a vl> t^a¶p +Vqrf kv
 † u gxxgnf^{3/4}p v f kmco c ul^{3/4}p { r gt gn
 O gn{ gv. co kpv ¶f qf. Gw>r c r gt gr0
 J c vj^a vo²i o quvku hqn{ pc c pci { j cte qw
 M^at gi { [/²tv. o qpf lcf. x^a¶kj cteqv0
 J qi { O wt^a p{ c egpuqt n^{3/4}to g n^{3/4} v xci { qp.
 Qj gppgmwf^a uc p² ngo dgeugu xci { qp=
 f o d^at vctvqmv r^a. j qi { f Aj^{3/4} utlej /r^a | c
 O^a tkc dgu²f²vu²r gp Ont lej r^a // c.
 J qi { r gf ki pg rgi { gp c ul ¶k go cr^a p^aqo <
 † p dk qp{ o wpr^a o cv^apcmpgo cl^a p^aqo 0

O^a unʔr ki gp l»nxcpc vgnqo^a f cuu| qp{
 Fg v³ p plpeu qn{ l»n o kv^{3/4}j »pcr qu cuu| qp{.
 Mqo^a o cuu| qp{ vr gf ki c| kvgp² nnguug.
 Cpp{kxcnkpn¹ dd. o gtvj c^{3/4} pgo² n vgnug⁰
 Ok^a o d^a t wflwm j qi { d xgp xcp c eu»mqw.
 M¹ Af ¹ p¹ mc r¹ gx² rdgp gi { vt¹ kn¹» eu»nqv⁰

Vg r gf ki dct^a vqo . ukguu. ¶lcf Ngj gn.
 Mkvrgmgf dg ul^a tp{cu i² pkvu| qf r¹ gj gn.
 ¶lcf. o gtvppgo² tu| t^a. j c kvrgu| c pci { j cf.
 J cte² u j^a dqt² u ki c| kj cff/gnj cff⁰

Cmqt n¹ vqo² p o gi cteqf cv. j qi { n¹ pi cn
 J ukgnul^a pv^a i dcp vku| vc u^a ti c n¹ pi i cn=
 X^a i vcu| r ctk^a f qp. o kvvr qt c ul² nx² ul gp.
 O gn{ gvul^a tp{ckc ul^a i wf » ul² nx² ul gp=
 Mgf xgu nqo^a o cuu| qp{ ngl² v^{3/4} f grxg u¹ <
 i U³ pf qt. j c vgn² uu|. gpi go ggp{ gnc u¹ f. ë
 O² i ku gj ci { qf v. qn{ v¹ grxg o² uu| gn
 O kvj c vng xqrp c ul kvgf hqt» o² uu| gr⁰

N^a vqo c fgt² mj uv cj qnxkmji netf lc<
 i Kaf cuu Uej y gtv/wo Hgej vgpA, i O gm{ kmAG| c netf A
 V^{3/4} ddgvpgo dgu² rpgm j cpgo^{3/4} ul geucr pcn=
 J Lcë
 X² tg c p² o gypgm¹ Ai { hqn{ o kvvc eucr pcn=
 U³ pf qt xk² | Apmpgmi { ugo^a nj cvgnpvc<
 i r gp o kvvc ugo o kv. Ai { qpvc c| gmgp⁰

| u o kvgnpgo j cteqndqtu»² tvxci { dcd² tv
 J qo m¹ tc v | kc f lcf endcd² tv<
 Cpp{k² tf go lgrngntcnxc v² t xkuu| c o^a t.
 Co gpp{kvdk qp{ pgo o kvf gp¹ Aw xku| ul co^a t⁰
 Gtgf l U³ pf qt xk² | j cff | gpi lgm² p pgmgf
 Xkugvf qni ckf t»nZZK² pgng⁰

Ngxgrgf x² i² p g n¹ v dgv v n¹ wco < R0 U0 C| v i qpf qn¹ o
 Rquv Uetkr wo qv lgrgpv c|. hqtf ¶² m fg eucm r cteu| v rcr ¶¹ v
 vr¹ nco 0 O^a unqt j c R0 U0 gv nksu| gf. ¶¹ f ku o gi c| w»/
 ¶¹ a u⁰

O kvf gl gmw³ pc^a rf lqp o gi c|² p kvppgo . uvd0n¹ x^a plc
 Vwf qf o^a t nk⁰

Mgf xgu Lcpm»o # C|v j cmqwco . j qi { v g c|v j cmqwf
 j qi { 2p hqi xc xci {qn0 Gij ku| go . j qi { xcp gfi qn{cp l»/
 enet»o . cnk ul ¶k²d n »j clvc . j qi { uv³ wun³⁴m²i gp vctvcpem
 j qnqo pcr lª ki . fg gl gp »j clv³ uwm o kpf g pcr ki eucm r kwo
 fgukf gkwo 0 C|²tv ku ul Ápvuf o gi n³⁴pp{j wncv³ uckf cv ²u
 pg dÁuwl o kwco . Ài {ku gngi gv dÁuwm² p c v g dqmpf
 hglgf o kw0 Dk qp{/kvgp . pgo fleu²tgw³ r r gp o qpf qo
 *j ku| wf qf . j qi { pgo ki gp ul gtvgm ul go dg fleu² tpk . fg gn
 pgo j cmi cv cvqo . j qi { pci { ul coª t xci {00 kc o gpp{f³⁴i u
 o gp{n³⁴ lwqw gul gf dg . c|v o qpf cpqf . j qi { Vqrf k Gu² lg
 wqn» o wprnf A ³eu² o . c v g hglgf dgp o²i ki gp uqm xcp .
 ²u j c o ci cf ul ²r ul gt² xgn o kpf c| vnk pgo dquª vqf . o clf nixg/
 tgo ²p . pg h²rl . cnit dwpm»udqwn cnit nrcrª eucn co kv xª/
 rcu| vcu| 0 P gmg o r gfi ch² r v v³⁴d² pg ¶l . o gtv o kpf c| qp
 r x g r k f gv . o gn{ gmdgp kn{ guo km rgu| pgm h³⁴d qpvcvcpwn m³⁴
 f³⁴o xku| c0 Ngi gn ul ³⁴ ku ncr l dgrg ku o²v Vqrf k/dc= j c oª t
 c hgl²v ²u c r³⁴dª v o gi eukª ncf . n³⁴gruu²i gf c fgtgn³ v ku
 o gi eukª rpk m³⁴p dgp x² vng| gn kvgp ²u go dgt gmgp0 Cppcm
 o gi ngn rppkg . j c jª tqo ul qt j cnu| ku dgrg0 Qrxcu| f gi { pci {/
 ul gt gi² uul² 0 J qi { c j k v t k c pgo ul qniª n cf cvqmª n gl
 pgo dcl . u v o²i l» . o gtv ul cdcf cdcep n³⁴nj gvul 0 J wteqrf
 ngtgul vª n c o ciª p ²u p{kªª pqu ²rgv o kpf gp xku| qp{ckp0
 J c ¶i { dgx²i gl gf Vqrf kv . J qo²t ²u Quukp ul gtgpeu² l² pgm
 hqi lª m vctvcpk j c ng| gv hqi ul xgr³⁴n0 G| v²p o qpf qo . ²u ²p
 c| xci {qm cnkuqj cugo j c| wf km(

Kc| detª vqf

Rgv hk Uª pf qt

U| cmjvc . ul gr vgo dgt 4903: 6: 0

eu²o Uª pf qt# O lgn w Lgm c u k e u g h q i r c pª Rguv xª tqª v
 ²u v³i gf dqntqu ²tf go glf²tv r tgo lgt o kpkul vt² pgm vppg .
 n³⁴ª p xco gl gp uqtcko cv j q|ª f rpi gf gl vwpk cx²i tg . j qi {
 o gi wf j cuf . o ku| gt kpv² p u c| gp{²ko o²i n³⁴pm o²i ugo
 c xcftª epcm ugo r gfi ki rpg c n³⁴p{²ngp r³⁴| cf» tqoª pclmª

vkul vgrv r qni^a t^v tuckpnpcm² u j ngdn vguv² tglpnpgm n³4 o g
n³4² pgo guv²pn⁰

Fg jci {lwm g hqp^vqu v³ti {cn^v 2u v²tl²pm ngx²udd²
hqp^vqucntc⁰

Uej gf gpgm^a v^fv^f/g Vqif k Gu²l²vA J c li gp. xgf f
xku| c² u v^tv^f j cten²u|^a m^r qv^dcp. j qi { o k j gn^v t^a u| ²Án²
u² i go ngu . c| qppⁿugi² n² go tg l³4 guug^j cteku d^vqi^a p^a x^cr⁰

Vqo r c o gi u| p^vg^vg x^gg^o r^xg^gl² u² v. w²ddk r^xg^go tg.
o gn^v pgnk I t^a h^epdgti dg m²Ár^f vgo . pgo h^ergn⁰ J cl^rcp^f»
xci {qm j k^opk j qi { Rgu^vg^r r² v^g cm^eo^a x^cn v^g r r^evⁿ| v^f
v^gg c h²Ár^f v o gt^vc^j j q| pci {qp² t^vgu| 0

Fg v²4dgv pgo ²Áj cv^m o gt^v j q^mer j cl^per^dcp u| ²Át^vg^o
hqi k^uv^w t^a n^cv^k < u| ²Ák^gu^g r² v^rm C| ³4f³4² u o k^f gp u| gp² k
xki {gpgmgn j c j q^mer u| ²Át^vg^t j q| |^a o pgo l³4u| 0

D^vf 0Ct^cp{ L^a pqu

Gt^f f. p^qx^go dgt 44Ø: 6: 0

J u³4m xk^a i c. lcpm[#] O gi j cm^f/g c| gtf fk o ci^a p{
u| gp^f g h²Ágo ²Ár² v^c v^g j c^f k r^a n^a f f^leu u² i² p^gm E j k o /
dqtcuuq^l pA (Ø) xku| cxq^pwⁿco gi { r^a t j »p^rtc Gt^f ftg.
w^fq^f. j qi { o k qm^l»n xci { r^g i c^f dd i q^f q^j cv^qf. Vqif kv
qw j ci {vco F gdt^ge^gpdgp. Mku Nclqu x^a t^quk h lgi { | p² n=
j c² t^vg o² i { xci { m²Ár^f gu| u Mku Nclqu pgo v^cn² r^c q^v j q^p
ngppk eucm o q^pf^f. xci { ²Á g^pf o gi c^ppcm cnk q^v j q^p ngu| .
j qi { o k n^gm o cl^f q^f c^f l^a n⁰ ²Ál^a n o^a t gi { u| gt x^cro k d^ct^qo k
xci { ku ct^cp{ l^a p^quk j qu| ²Ár^a i ²Á r^xg^gv. c| v² p² p ku n³4g^vo
p{ qo f^qn^e k^f c^v O gi ²Áf. j qn xci { . j c c r qⁿrd^cp r² u| k⁰
Vku| v⁰eu»n⁰ dgpp⁰ ngv⁰

U^txu[#] dt^vf 0

R0U0

Ct^cp{ L^a pqu lgi { /g^vg 3: 7: /d»nⁱ J u³4m xk^a i c⁰ ²Áv^o
xqⁿ pgnk Ct^cf x^a t^qu x² f^g m² t^g v^g w^z r^g f^g k^l»o cv c u| cm^pv^k
pgo | gv t² i i gn o gn^v p^gm n³4 r^g i² p{ g x^qn^co u cn^et^vco
o ct^cf p⁰ Vt² l^f n^co x^gg. j qi { ² p o^a t u| ci qⁿco n r^qt^v
o² i pgo . f^c e^a t^c. j qi { n^r k^a p{ 0

F gdtgegp. fgego dgt 10 3: 6: 0

Ftwu^alc J wp{cfk O^av^au crl^apcm²u c| kf gxcn» dkn/
 xgpf²i hqi cf » gi {kn r kpe²t²pgn# U cmrpv c r gpp^alc²u O ctu
 r cpi cp²lc# P cmAnpncm l» dca^avqo. kuvp Ai {ug# c| |cn
 ng| fgo r xgrgo gv. co kxn o c o^at n²v r xgrgv ng| fgo.
 j qi { i o gi kpv F gdtgegpdg xci {qnt# Dgl³4vgo Gtf ftAn
 r gtgr ww{quvAn o gtv c n²4p{²ndgrk qn²j qm pci {qp u| gtgr/
 o gup o quq{qi pcm c| qf cxcn» o ci v²ttc²u r kpe²tg. u²p
 pgo cmetco. j qi { eucn²f qo Anqndcp rgi {gp= m²4pdgp
 go dgtj Autc ku pci { i wu| wuw m l³4v. gncpwn²m c U cw^at/
 o gi {gk pgo | gv t³4v n²u² p²pn²p{ vuguv n nkn Wtd^ap go dgtgk
 qn² f kcfcm cv x²kxcmnk o c gi { j gv. j qi { F²| u/p²n gm| f v m
 hwpk i u c Vku^aki o gi ugo^a mcm² p qj c eum v²gp³4g| tgp
 xqncm co c| qm r gfk i rgi c²dd ku j²wu^a| cp0 | u g| v. dca^avqo.
 pg xgff pci { v²upcm dgtp^avi c| uk l²rg j { r gtdqrcpm j cpgo
 xgff dgv u| gtlpk ki c| u^ai pcm²u m²eci l c o gi dqmpf w²uki.
 o kpv²p vgwgo. o gtv gttg k²gp cm²cm cf v²4d pgo xqiv²u
 pgo rgu|. j kff gn pgn²o F g²p vppcr guv²tvgo Fgd/
 tgegpdg. o c tgi i gn k guki n>vqwo/hwqwo. u o quv pgo
 c²tv hqi vco vqmv. j qi { uc{tleq/rj kquqj q/r qrk^arlcm
 j cpgo eum c| v cmetqo w²vqf tc cf pk j qi { g| gpvAn kf g
 ¶l. xci { Aug o gpp{m c r xgrgf gv. l³4l o ci cf j gn gwg.
 »j clxc »j clvqo n²pk eugthcnqu| qtAu h²gk gv. c| v²p o gi
 c ngtgu vlcqm xci { n^ap{qvm ku o gi rgu| 37/kng v²l^ap0
 Mqo^ao cuu| qp{ ku dgl³4 gypg. o gtv nqo^af cuu| qp{ ki gp/ki gp
 u| gtgv². j cdgl³4ppg. j^av l³4l³4p dg c| kuvp^arlc o gi 0J cmi cuf
 o gi n²tgm go gv. L²pqu²o. v²g u| gpf g dxcn²# u cmqt c
 v²ddkv u| »xcn o qpf lc gn j uvw²gf d^ao wv²dcp p{cnki
 Au » dca^avqf

Rgv hkU² pf qt

F gdtgegp. qm»dgt 5303: 6: 0

~ j Lcpm# ¶vco xcrc p²ngf Gtf ft n c o kpcr. j qi {
 t³4 An kf g F gdtgegpdg²u v²g pgo t³4 An²r0 P go n²rvf o gi
 r xgrgo gvA xci { o cnc²unqf qn »j Lcpm^a N²pequ r dqi »u.
 j c v²g o cnc²unqf pk o gtv²r# F g g| v pgo v²gu| go l³4n t>rcf=
 kpn²dd xci {qm j clrcpf » j kppk j qi { g²rgu| gw c r xgrgo 0
 Cddec c| xqiv u|²r²ngup o gi ¶xc. j qi {²p kw xci {qm

c 4: 0 |^a u | n>crp^a n F gdtgepdgp. u j qi { o k²n gr²dd »rf kf g
 *o k²(gp u | »I^a v n# c »rf kf g/dgp dgppg xcp Vqrf k# gl²tv
 o gi i { kmupc0 Xcj qv Kō tg. j qi { gl v pgo vcr²nc nk. vj^a v
 j qi { o k²n gr²dd »rf kf g ko^a fqw rql²f cv. o gn²gv o²i
 gi { u | gt »j clvcp² m n²pk o kgn w c j cteqm hgti gvgi g j gv²f j²v
 qtu^a i qp v²n uqf qt. o kpv c ngu cn²f²qw pghgrglwgv⁰ ~ j clvcr²m
 n²pk j qi { j q | |^a u | qnlco c u |³/₄p { gvgi gnj gl⁰ ~ j Lcpm.
 vj^a v ukgu. o gtv Vqrf k ku kw xcp. cnk o^a t x²p n²i²p { cttc.
 j qi { j cf k² tucō n²i { gp=lqdd ngu pgnk U cnyp²v p c nmem>dcp0
 C |²tv ukgu. »j Lcpm. cl^a p²qo P gmf. j qi { ukgu0 J c o gi /
²tn²gl gn Vgrgi f k n²4p { x^a twup^a n n²tf gl un²/₄ l²n w² pco 0 Vku /
 vrgo c vku vgrpf n²v² u eu»n²qo c D^a dgn vtp {^a pcm c |
 n²r o^a u^a v. c v² qto^a p { qf cv »j Lcpm# u o ctef qm n²r qtu»o
 dg |^a tv^a ki c vj^a u² i gu Dgpe² f 0

Rgv HkU² pf qt ecr kcp²gv

Ctcf. pqxgo dgt 903: 6: 0

Xk² | Mcr k² p { Wtco # P g n² i { gp c u |² k²gf n² u² i dg
 gu² ugn v²rgu. o k² p j c n²xgrgf gr²gu | gw xqpc u² p vcr² p o^a t
 f² o ku c | gr qu | v

C | gr²gu | gw²rx²n

ZZKK0² pgnl²gp0

O gi ncr vco n²xgrgf gv. u pgo n²x²p u | cdf u² i qo cmqt/
 v² ldep U cnyp²v t>n o gi u |³/₄pk fg o^a ut² u | v pgo wf xc.
 x^a llq c | v n²kgm n²xgr² v qm> dgt 53/2 p ncr vco. qm> dgt 45/^a p
 F gdtgepdgp hqi qo /g vcr² ipk eucr vco gi { ugp²ko gpv²ku
 x^a ncu | v u c | v c | qppcn m²f² gpk cnetvco. j c vcr² p o² i Fgd/
 tgepdgp vcr² ipc v² i gf. fg c rquc o² n> | v²qw o gi pgo
 x^a t²pk² u eu² m³/₄ pcr o² n²xc n²gv gw xqpc ku² v² Apcm
 k² f² k² p qo. o gn² gp xcn> d² n² w i gtlgf gl² ugo dgp c n²xgr² v
 u |² w² r vgo. o kgn w r g² ki c rquc kf g gr²/₄ v xqpc. ko²
 kf g k² f w nco. n²/₄ pgo | gv t o k² u² i dgp² u o quv xcp u | gtgp/
 eu² o c |^a n² i { A f³/₄ i² uv h² n² g² p j cmpl0 7/2 p tgi i gn xq²
 gi { nku n²qo² f k. c x^a tdgr² gm nk²/₄ vgm —lctcf hgt². fg xku | c
 xgtg² gm gi { ncu^a tp {^a v² u vgo² tf gm n²o ctk² 3/4² v. c | qdcp
 c O ctqur ctv² p h² ni { A v² wcn0

O k c | ctef k r k² eqp j cmi cwm c |^a n² i { A f³/₄ i² uv vj^a v
 o^a t c | ugo A² u² i gn w² p n0

J qi { r g f k i n p » C t c f h g r q n n p p { g p n k p g v 4 j g u /
 u g p g m c v t r c t e p e u p q m c O c t q u p p r g x h j k f c v 8 / t c x l t c f » t c
 h g r i { A l v c w . j q n c u l c m p v c k g n u u l a | c f t g o g m A n x l u g n g
 o c i a v c i { A l v q i c v a u d c p 0 G p p { k v c o k x k 2 | k f q i c l p m t » r 0
 G i { 2 d k a p v o k e u c m n v j 2 v t g l 3 w A p m h g r a n c p k o a u n v
 u l a | c f q v . o g n { o a t u l k p v g n v j g v g v v 4 w 3 w k w . C t c f x a t q u
 h g r i k a u a t c . o k p f g p h g n d d r c t e p e u p 2 m A n 0

J qi { c | q p d c p q n { f g t 2 m h c w { A x q n a n j qi { o a u k m
 r g x g r v k u m A r v 2 n * o k v p o C t c f t c w a p c o m A r g + c | d g e u A
 r g v f t g x a n k m h k A 0

J c . o k n a t k o p p g p j c | c u l c d c f w a q m o 2 i F g d t g e g p d g p
 r g p p 2 r 0 0 p q f g c t t » n n v u d d 0 O q u v r g f k i | a t q o r g x g r g o g v
 c x x c n j qi { <

C | 2 p k u v p g o a n f l q p o gi v i g f u c | q n e v . n k m n g f x g u g m
 p g n g f . d c t a v q f

C t c p { L a p q u

CTCP[Lf PQU

3: 396 3: : 4

C HONGO KING

J clf cp^a dcp. co knqt o²i
¶ { dgu|²mc o ci { ct go dgt<
J c r gt. Ài { o qpf. j cff rgi { gp r gt#
*Co kpgo xqnr²rr gp qn{ t²i +ô
Xcrj qnc Vku| cj^a vqp
| nrgi { i c| fc<R^andct^a vqo .
UR²vgt cppcmv ul qo ul²flc=
T»rqmul »ng t³klf r²rf c0

R²vgt²uR^an*wf lwn+p{^atdcp
.. uul gl²tpgmc per v³tdcp.
M³pp{ pgnkmqwul gt²p{gp
O gi^atwpkgi { i {²n²p{gp=
J cpgo c o kR²vgt/R^an²pm
J^a| c n³4³no^auvcr^an²pm<
\ gpgdqp^av. ³4³4mr cxctv.
O clf hgrhqt^a¶^amc| wf xctv=
Tquul ul qo ul²f u^ai <v³4³4m^avqm
U mpgo ki gp l» dct^avqn0
J c c R^ann²o²p{g h³uv³4
R²vgt cw»no kpf l^aty) v³4³4n²pm<
Grgpdgp c R²vgt v³4³4n²pm<
J c nercti^an
C ul gi²p{ R^an
J^a| chcr^avo clf nkt^alc=
Gdd nc| v³p rgu| j cff/gnj cff.
O gn{ c ngtvcr^a ku gj c#

G| ugo gpi gf. c| ug j ci {lc.
 Uc nř vj^a |. nleukp{g. pci {lc
 ¾au| gj qti qpcmngo²p{gp=
 O kpvnw{^alqmc u³/k²p{gp
 Kppgp²u vAn³au| gwi cv
 Ugu| ko²ti²dgp c n{vncv0
 Fg. j qi { c f qnqi tc vřtlgm
 Go dgt go řřng| gv»c
 f mqwgi { o ci cufk»h.
 F¶u|² Anc R^a nngtv²pgn0
 C u| qo u|²f dc p{ Anvgi {^ai c.
 O gn{gvR²vgt. o kpvj qi { t»rc
 C f k» ku qf cj vnc.
 D³æugp gnv tv rg pgo x^ai c0
 V³4v²pvr gf ki gi { xcu^atpcr.
 J qi { c hgpv¶|vhAngo krg
 | r c nř⁴ ¾u i cn{tc An.
 C| vu| go grk²p nkqn^atpcm
 J qppcp Kvgpvl»nqt tgi i gn
 O ci cu| vrc u|²r²pgmgn<
 O gi nř⁴u| ¾pxg c per qv.
 O gn{tg ¶b . hgrkktcf qv.
 C uwi^atv²uj cto cvqv.
 C u| gm v²u knvqv=
 C hř v. o gn{pgmno dlc | ¾f.
 C hř u| ngv. j qnr^atlc nř⁴v.
 C| ¾⁴¾⁰ gv. o gn{ vgrk
 U ¶kgeunřl²vgngrk=
 U »xcn co kdppg²n
 Uo knř⁴2 dgp řř v. u| go řř n
 C| vc r qo r^av. hř p{v²u u| ¶pv.
 O gn{ f leu u²i
 ô Ugo o knř u²i ô

²tvg

L³4vř²vg

Euw^ap²tgwg. o kpf #

Grpp{ktc. j qi { R^ani c| f c.

Mki {¾p{¾tgnqwj cni cwc.

¶i { nk^anqw¾⁴¾⁰2 dgp<

i Kv²pgo Wco .

Dgj u|²r gp

H \tilde{A} w{ $\frac{3}{4}$ ng| c| 2 p o c f c t c o #
 ì Mgp f^2 d k qp{ c| a tp{ 2 nc#
 O gtvqn{cvo qpf qm j qi { o 2 i c 00 \tilde{e}
 J cpi | km a vnc u $\frac{3}{4}$ 2 p{gp
 Gi { i qtqo dc ul » ngo 2 p{gp0
 ì J a v n k \tilde{e} ô r cwqi lc R a nô
 O knqt c| 2 p h a o tc ul a m \tilde{A}
 ì F g c| 2 p r qt \tilde{v} o qp | gpi gw<
 J qi { kn g p 2 c h \tilde{A} w{ ngpf g \tilde{w}
 R a npgo j ci {lc< v g w e eug#
 R 2 vgt qtf \tilde{w} < $\frac{3}{4}$ o gi \tilde{A} i {ug#
 V $\frac{3}{4}$ ddt \tilde{A} n \tilde{v} $\frac{3}{4}$ ddtg. ul »tw \tilde{w} ul »tc.
 O clf ul k q ntc. o clf net»tc.
 O clf o qi qtx a p.
 f wi qtx a p
 $\frac{3}{4}$ tg o gppgm j eldcner pcn \tilde{w}
 .. t $\frac{3}{4}$ o 2 tg c ul gpvpcr pcm
 Gi {o a uvwi {cp x 2 tdg/hci {dc. ô
 J cpgo c h w o 2 i ugo j ci {xc0

R a nc| qpdcp dquul \tilde{A} vhqttn
 ! u cj qi { xcp. x 2 tgu qttn
 O gi { r cpcul tc. d \tilde{w} »vd \tilde{A} w{v
 Uo gn{gvc x 2 tu| gpp{ vcp \tilde{A} w{v
 C d a pvc m cvgn cf lc.
 Iqi a v. \tilde{A} i {o qpf. pgo j ci {lc.
 K \tilde{p} n \tilde{d} dd h $\frac{3}{4}$ o gi { c nk a n \tilde{d} ki
 V 2 tf gp eu \tilde{A} w{ xc0f g c h \tilde{A} w{ $\frac{3}{4}$.
 O gn{ c| u f k \tilde{h} twnl $\frac{3}{4}$ w.
 P go gpi gf k pgo #j c \tilde{h} r \tilde{d} 0
 P {qo cv \tilde{w} m \tilde{w} gi { vcn \tilde{h} tvf qd
 C| ki c| u a i o 2 trgi 2 dg.
 O kvc d \tilde{w} » eu \tilde{A} w{ vvc lqdd
 Q \tilde{h} cmpp n \tilde{g} x | ugd 2 dg0

R 2 vgtvugo j ci { a r kj gppk
 C pci { a tv \tilde{w} cp ki c| u a i <
 P go tguvc d \tilde{w} »j q| o gppk
 J qi { r cpcul a vo gi j c \tilde{m} cu a m
 \tilde{w} { u \tilde{A} i { \tilde{v} $\frac{3}{4}$ v \tilde{v} pv. ô gr \tilde{d} gul 2 rk
 $\frac{3}{4}$ 2 c h \tilde{A} w{. c| vx 2 rk
 P k \tilde{p} eu x a to gi {g.

Mkgxgi {g.
 P kpeugp v̄4x²p{. pgo rgj gvr gt.
 J ku| c| vñ vlc Kvgp. go dgt#ô
 Fg. j qi { c dgu|²f gv^{3/4}u| g
 Cpp^anlqdd tgpfdgp kngu| g.
 C| Āngi d nuqnevgrxgu|
 † uc lqi j q| gi { vcnf tvvgu| .
 Ongf ku c d†k| ugddgp
 Dcnhgn n c u| †k k^a pv
 O gi j Ā »f kmc rgi u| gddgp0

Hgrf gtĀng c n†k^a pv
 P cr. o gnf c xk^a vgrf ³/pvug.
 J qi { c hArgo kg/r^{3/4}dgp
 Mkp gmu| qn^anc u| gtgpeug0
 f o f g c d†k »vo quveugdgp
 J ci {lc o kpf gp wf qo^a p{c.
 † u^a o d^a vqt
 M²vr t»n^a vqt
 O kpf gp n²p{ x²v^{3/4}u| gj^a p{lc.
 Uo kpf gp †^auvu|²llgmAt ku<
 Kk| gp Āi {t n
 O cf^athĀw{t n
 Okvugo wf c eqtr wu|wtku=
 O †^a pgo c d†k ». j ctci i cn
 T^aĀx²p c n²v| ugd²tg
 Ut^a o wcx^a p c n²vl²rtg.
 V^{3/4}x²p{vo qpf c g u| excmnen
 C u| gi² p{ hĀgo k²tg<
 J cnlc ngpf vgn#
 Ug kf g pgo . ug qf c pgo
 HĀw{^{3/4}nc o cf^a tnc. j cpgo
 *Lqdd hgr^{3/4}nĀv+pgngo hĀw{^{3/4}n
 *Dcnhgn nĀv+Upngno hĀw{^{3/4}k
 Gro gj gvpgn0

Okn| gp u|²r f qmji . j qi { o^a t o c
 P go v̄4v²pkmk| gu n²to c.
 .. u| g c u| qo u|²f ug |^{3/4}f Ān
 C tqnqp^a i
 Euw c l»u^a i .
 O ci {ct go dgt h²nc r^{3/4}vĀn0

P k p e u g p q u | v ^a n { . p k p e u g i { g | u ² i
 J q i { u | ² r u | » x c n o g i p g g u u ² m .
 C v g u v x ² t g m
³/₄ u u | g h ² t p g m .
 H g n g d c t ^a v
 O k p f l » d c t ^a v <
 U g o o k u ² i ² t v o g i r ³/₄ t ³/₄ n p k .
 X c i { o g i g p p k . x c i { o g i ³/₄ n p k
 G i { o ^a u v m q t ^a p v u g o c m c t l c 0
 F g j q n k u c m c f p c Á i { x ² f .
 M k k Á n g o k n g h Á v v { ² v
 O c k p c r u ^a i h g n x ^a n n c n l c # A
 *3 : 7 6 +

R f \ O f P N Q X C I
 X ¶ i d c n n c f c

Ю

X^a t c ³/₄ d n ³/₄ u v g t g o ² d g p
 L^a t c n^a u h g n d c l p q m R^a | o ^a p =
 N² r v g k v o c l f e u k m r ¶ | c .
 O c l f o g i k p f v w u | c r q t ^a | x ^a p =
 N^a d c . u | ¶ k g . g i { t g v q o d q n
 X k u | c f ³/₄ p i c v ³/₄ i { h c r c f n } =
 W f x c t q p ^a m n² u | p { g t g i d g p .
 P { k j q i . r t Á u | n ³/₄ h Á c x c f n } 0

ì J q x c h² t l g o A² f g u h² t l g o A
 K^a | n q t ^a p . k n { ² j i { q o q t t c n A
 R c p p k # I w p f c # j q n o c t c f v q m A
 G i { . n g w c o ² | g u d q t t c r #
 O g p v g p k w r g u | . * d q r f q i K v g p #
 O ² i j c l c o d c p) p g o x q n h² u + ô
 J c g i { r g t e k i x ^a t n g i { g m g f .
 N g u | n c r^a e u q o . À u Á ² u Æ

J c m l c R^a | o ^a p . g h q t f w x c .
 J ^a | c | g p i h Á n k i² l² v =
 E u c m r k t q u » h Á r g r c v u | k m
 C | o w c v l c u | g p x g f ² n { ² v =

Hglg dÀdl^a p j qnf xkf i xcp.
 O gn{ gv²te/ukucmenh³f dg=
 P go hgrgn eucmgi { ul gt/n³wl gt
 Mn³f gpvc| ul kn³f dg0

ì Tquul kf xcp. ²f gu cr lqn#
 P go vcp^a euqo 000j uc tgi i gr#è
 O qpf c| Àj ³/i { ²u dghqtf wn
 Uxkuu cv²t pci { n³/³p { gi i gr=
 X^atxc. h³rxg. v txg. n³txg.
 f mo ³/₄ ³/g. j qi { hgrcflc<
 F g dquu| Àucp vkmc j^a v^a dd
 M³p { ³/n³ pgmo q| f wrcvlc0

ì O kg x²rlgo ft^a i c h³tlgo A
 J qppcp g tquu| n³fg xg o^a t o cA
 P go cnwwl»nAtquu| wn² dtgf vA
 M³p { g gm³p xqivc r^a tpcA
 | p xgvo hgn n³vng| go o gn
 | ur wj ¶qo o kpf gp guv0ô è
 U »n u o kpvj cto cvi { gpi g h³x³/p.
 Tgo gi c ul² r cuu| qp { vguv0

Kpf wnR^a | o^a p. o gi ug^a nk^a p
 M³p { gu ul go pgm tgl i ul »pcn=
 F g pgo o kpf l^a tvgrkp { kl^a v
 *Uctnè hgn n+c| cl»pcn0
 P² | w³pc gi { /n³ vr gteki
 U gi² p { h³lÀcuu| qp { . | xc<
 —i { pgxgvp gAu Ài { o gi ô u¶. j qi { #00
 Uqj c. uqj c kn³ gp v² hc0

O knqt c| v³ p c m³u| ³/dp² n
 C| vug)o qpf lc<Kv³p^a rf lqp.
 Xcu n³|² tg qo rkmc p .
 Eu»menj kpv j qi { o gi^a n³lqp0
 F g c| . hqi lc. xkuu| cf qdlc.
 Gi { gvo qtf wn< i xkuu| c. n¶i { »#è
 T^a hqtf ¶lc c pci { m³œuqv
 U³/kg o gn³ ul Àlc< i ¶i { l>#è

KKO

Xkugi t^a f qp c nkt^a n{ xcp j gxgt uqtten
P go nqo qn{ vp^a euqv Æn pgo j cf keugrvhqtten0
P lpeugpgmku o c n³/₄ ³/₄ w g pci { ul cni^a mAx² pgm<
F g xcp ³/₄ ³/₄ . j glgj wlc. v^o pe. o w uknc. ² pgn0

Qf c o gpg l» npxci . d Æu/j cteci qu R^a | o^a p.
N² r w g crwp{ ³/₄ c h³/₄ f . euknqtqi c o^a tx^a p{0
Mkf ³/₄ ³/₄ d ³/₄ AMkeu³/₄ ³/₄ r ³/₄ Æi ô Kio gtkh³/₄ n² i g<
ì Mkp gmc| c l» dqt c xqn. u p{ cmc hgn² i g Æ

ì P qu| c j co ct. c dqmpf # Æil rg kf g Tkm² peu#
ô I qpf qm^o ² p. o kc dcl. j qn^v/₄ kc dcm² peu ô
N² i { v g nkt^a n{ . ² p r gf ki gi { ul gt nku² tg<
O kv g nkc ul . kwc ul cxco . ^a mlqp c| ¶² rg v Æ

³/₄ ul gu| gf kc dqmpf ugv/uwc n² r² v.
©i { Æko gi c nkt^a n{ ctep{ qu netul ² n² v0
Qf cm² pp c| ³/₄ gi . j c nk Æul^a v^a nlc.
Mk² ppe ul qd^a p ngt gu| v Ænf ³/₄ k vc ul ki^a nlc0

O gi n³/₄ x gvo c nkt^a n{ h³/₄ n² i gu ul go ² n² v<
P ci { j cteci ² u pci { r p eul p{ qo lc ul ¶² x go o ² n² v<
P go xci { qm² p dqt qu go dgt ô dqt pgn^o c d^a pcv#
O gi n³/₄ x gvo . j c ul cdcf cdd ul »tc p{ kqo ul^a o c v0

l³/₄ w gm wco . wf xctqf » nkh³/₄ Æ n² p{ gm//////////
ì O kf qm² i gl Au kf gj c| c o ctecf vmc x² pgmA ô è
P go c| c dcl. wco nkt^a n{ . o^a u pgn^o c i qpf qo <
Qf c l³/₄ w gm xcf^a ul pk hlc v m o qpf qo ô

ì Xcf euqf evo gi tqj cp^a mAvkr² mo dc v³/₄ v gm Æ
F gi qi { wco # Cpp{ kxcp qw xki { g gnc| ³/₄ f ³/₄ .
Cpp{ kc xcf gtf glo gp. ug ul gk ug ul^a o c ô
F g j c ul »j q| pgo lwqm pgo rgul x² i g o^a o c0

Guv g o ci { ct r nqo^a p ul ¶² x gvo grgi ¶² pm
C nkt^a n{ ² tv. j c| ^a ² tvr qj ctev Æ ¶² pm ô
ì Vgr gw² mo ci wncvA³/₄ ul gxgt gmgf v gm Æ
F gi qi { kw² m f gi qi { kw² n# ul ² r gp rghm Æ vgn0

Tgi i gn wtco . kpf wpcm n³/u¹ 3/pkmc u¹ a m¹ uvô
 ì Upgo h¹ g¹km Ìi {/g dk qp{. c xceugt^a v. j^a n¹ uv¹Æ
 Dgug m¹tc h¹000| g² u² tvn¹ vpkc xgpf² i gv#
 O ci {ct go dgt pgo vgu| kc| v. wf lc/g h¹/u¹ i gf #

Tgi i gn wtco . xcrcno gpp{k¹pcmgtgf u¹ 2 r gp.
 Fg c| gi {kmxku¹ cquqp ô g| c dclqo 2 r gp ô
 C| vc| gi {gv. wtco nk^a n¹. c tcf pckU | tg#
 O gi 3/4¹ . ô j c o c lwqmku c i {gj gppc v | tg0

ì Pci {qp km c r cpcu| . l» n¹xci qo . R^a | o^a p=
 K¹ gp gugvo² i pgo gugwo ci {ct go dgt j^a |^a p<
 —pcmgtgf c xgpf² i . xku¹ cquqpvgi {km-
 C| vc| gi {gvo gi 3/4¹ <pci {qp j gn{ gu gf f ki Æ

f vnu| qo k#000pgo xci {qm² p ug dqmpf . ug t² u| gi =
 J qi { xcrcnk¹3/4 o gi { . c¹ 2 tv¹ {km¹uc pgo ngu gn0
 Fg o knqt c m¹u¹ 3/4¹ p^a mvhg¹u² i go . | xc 000
 G| gt^a vqn# O gi 3/4¹ . o gi 3/4¹ c| vo² i o c#

ì Pci {qp qn¹uc dgu² f. l» n¹xci qo . R^a | o^a p=
 J kdc rppg. j c xcrcj qi { h¹rtg o ci {ct^a | p^a o <
 H¹g¹u² i gf c hqn¹ »u»p ô xci { m¹u¹ 3/4¹ p^a mc<
 Rgf ki . Ìi {/g tknc gugvxqn| gugv^a n¹Æ

I {km¹qo k#000Wtco nk^a n¹. 2 tvug o gi c u| »o cv#
 Grcdq¹ h¹/f kn¹peugo)² u o gpp{ dg¹kl» o cv=
 O gi eu»n¹nc ô Ìi { ugi² rlgp 3 u| go gko n¹ w¹ tc
 J gl. j qi { gr¹ dd pgo wf² mn¹er pkr ctk^a tc#

ì H¹glf gko kj kgo tg# ô 2 u c j kvpgo u| gm ô
 O gi n¹n¹nc xcno gt . c ugo o kgn¹gm #
 Vgi {gp c n¹et ki c| u¹ i qv# X¹llqp xgn¹f u| go dg#
 J qi { ku j k¹l^a m¹Ac p¹gxg pgo lwo^a t gu| go dg¹Æ

C p¹gx² v000c| c| j qi { 000c| vpgo wf qo 2 r r gp#
 Fg v¹n¹ p o gi n¹rgo h¹gn² i gf n¹3/4² dgp0ô
 G| c| . wtco #kvxcp. wtco <nw{ c gi {g o^a 1^a v#
 ô Unko wcv^a c n¹xci 000o ci {ctqm¹nk^a n¹ v0

KKO

I { nXkugi t^af nēpfkp²rg.
 H²tk²up . ci i²ui {gto gm<
 Xcno kigu| c x^at cñ^ap.
 J qi { uqtqo r »v. u² vqtvxgtpgm<
 C rqtqu| n>m²ngi²²tv
 P go cf l^amg o cki^av²uv<
 Qvj qp o ceunc Anc r cf n^ap.
 ©vj gkcc m c t^ap²uv#

Mer wnqtfn wu|^atp{c hqtf wn
 Nqdqi c vqm c m²vj ctucp<
 L> xk²| gm j ctetc n²u| gm
 O kpf rgl pgm i { nkgi {qtucp0
 \^atvukucmēn²vrgxgpg
 Qn{cp. o kpvcc n²o²p{ugrt <
 Wlcnoc wcv^ac i {gto gm
 3/4dg ukl c| crt>eugrt 0

ì H²rtg. h²rtg#000r^an{c o²txg#
 H²mu| qtqucp#n²peuc u| 3/4 dg#
 L>nxi {^a|| 00h²wu#è ô Hwpcmc| v²p.
 Fqdqi c h²4f . o kpvj c p{3/4 pg<
 Hqi { c v²tu²i . p c| go dgt.
 Rck²u. f^atf c 3/4u| gtqr r cp<
 J^avceuw²nkmc l> R^a| o^ap.
 U²Ài { ngu^am j qi { u| kpvgr w²h²cp0

ì Vcirtc. dclpqn#ugo o k ugo o k<
 V²Anwi qt²v²nc xgu|²n{gpè ô
 U| »ncoc| . hgn²axg ukun²v<
 C nkt^an{ c| <²rlgp#²rlgp#
 ì| rlgp#è o qpfcp^a)c j ctelk
 Co kpvu| go g n²4pp{dg n²dqi
 Fg u| cxcmj gn{vx²tg dwi i {cp.
 Ux²ttngi {Awj^atqo |^ar hqi 0

ì Kuvp gpi go #è c nkt^an{ o qpf.
 ì P go cnetvco . l> r²xgpgv<
 J^atqo kn{ hqi #ctcp{v²t #
 | uo²i dktv xqmpc. pgo f gA

J^a tqo kñ hqi #Ài { uclp^a mqo .
 P go o qpf j cvqo nkgr² i i² <
 L» ul gtgpeug. j c gl Àwcn
 M⁴ v g plpeu c d³æug² i² 0

F g j qi { . ¶b g l» vcp^a eeucn
 H ul gtgl | go g nku v² l² v<
 O^a uu| qt Ài j qp. j c dclqf plpeu.
 † u dgeuÀf o gi lqddcp † x^a v⁰
 ¶ { c h³u² i =f g vcp^a euj q|
 M^{cr} eudcp ug) r^g wcf »uc<
 J^a tqo hqi² tvj^a tqo hcnw
 N p c f ¶ < Uqo . Uqo qi { . R»uc0

X¶ cp nqeqi j c | c R^a | o^a p.
 Vctun^a dcp mw{ cd tg=
 f o ul gn² ttgncuu| qp{^a j q|
 X^a u^a thk o gpvgn tg0
 M² tf k| xc. g/vku c| vku.
 ô Wí { l pgnk o kpvgi {^a mqo /
 F g c l² tlg o kpf g| vj clvc<
 ì Vctvuc k^g p l» nk^a n{ qo #è

V Q O R C O K J f N [

3 : 3 9 / 3 : 8 :

C \ | P N C M f U Q O
M g n g o ² t . 3 : 7 2

O k t n p g o | g p i g w o ^a t c | ² p g m
O k v c r p v ² u f w f c u | » n A
J c m q w w p m j k o p w u | v c r c t e l j q | .
F c n v c h ² n u | g o d d ^a l k » n 0
| p e u c m v ² i g f j c i j c v r p q m c m
I { ³ p { ³ t u ² i g u n k u r c n q o #
C j . d ^a t | u k p f g n { v w f p ² m e u k p ^a p k
T q | | c p v g v f t g . r p v q o q p #

C p p q g | g t 0 0 f g j ^a v n k w f p ^a <
G j ^a | o k n q t ² r q w g v g m A
C p p { k k i c | < j q i { h g n c n ^a r k c
C r c f n | ^a u p g o x c r c o ² i =
J c p g o o g i j q t f v ³ m w e c / u ^a t t c n
| u r g d c m q n ^a m g o d g t A n =
C | » v c A i { x c p u A i { o c t c f . o q i
W p c m ^a d c p g i { u | g t d g f A n 0

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

Gi {²dk^a pvco kn{ gp. qn{ cp.
 F g m⁴w ku xqp² mvcn¹ pA
 *¶ { u| qmc o quvg| vqf cxgpk
 Uqmukj gf gt pci { r qpi { qn¹ p.+
 Vgj^a vc n³4w j qo qn¹ tc.
 Co kpvknm | ³4f mjo d hcnf 00A
 K gp#\ ³4f nekqo xgt f km
 Dqntq^a xcn ô c| ^ai { crw0

P kpeu kwcpp^a nu| gdd. o kvj c u| ²nhÀ
 U ^v4^v pkmucmeuf^a u f qm| <
 P go eucm j qi { ^v peqncu| vcn² u u| ² m
 F g c x² p m¹ n¹ j c ku hqtqi 0
 O² i ku vcn¹ p m| u| gdd c| cdrcm
 O kf p c n¹f c| qp dgp² | =
 Dk qp{ j c ¶ { u| ^a m o² i o c j qmcr
 G j^a | gi { À Rqo r glkrqu| 0

Uc | ^a r qt j qi {)v² h^a no gi ² lgnA
 U | » p² m¹no gi l³p² u u| cnf =
 *Qn{ cp dqmpf vgo² u| gvg o xcp<
 P go qrf cnv hmu| go . f g j cp{ cw0+
 † u o kvj c eucm² m| pkwf pc<
 C| qttqo tc gi { gpgugp
 —i { nqr r cp gi { n³4² t j kf gi eugr r .
 J qi { o clf p{ excn^a u^a vgu| gp0

I { gtv^a vi { Àvqmo² ti go dgp gmmqt.
 C| c| u| gtgp² mi { Àvcpk
 J cpgo eucm^{d2} ncnf ng| go dg.
 Hci { l^a vo gi gwg xcw o k0
 O gtv² p | ugn¹ tu² i gp xci { qmeucm
 Kvo^a uqmc tgpf gu rcn¹nc
 P ci { p² r gugg vcp{^a | xc gi { Àw.
 Gi² t. v¹eu³4m ncd»ec. r »n0

Ucnf pc qn{ cp tquu| ngtgu| v² p.
 Mk| Ai qn>f p² mo kpf g| gp<
 F g ³4f ³4 r tcmkn¹ lc r² x² p
 C r qo r c² u c n¹ p{ grgo .
 † p o gi p{ vi u| qo uqtuqo o kxqn^a p.
 F g u v³4 À¹4m o gtvvi { cp

J c Ñi²pgmxqrp²mvgtgo wq<
 P go ul ngdd xqpc c n{ wnc o #A

J clif²nqo . o gi xci {²pgngxg#
 Uj qi { Àd»n²r Ñi hgn pg x^atf#
 J ku| c fcn²ngv xctv^{3/4}ntg (00
 ô Fg³p gi { v^ocu/ o²i ugo^atv=
 Ogtvd^at ki gp dgeuÑi²o c fcn<
 Co gmgwo²i ku Ñi { ngj gv
 J qi { o gi kpf wnu| gi { ul gt hrgwgo
 Uqf cp{qo ul . o kpvcl gi gtgv#

ZK/ZZOU *f* \ CF

O KMU f VJ Mf NO f P

3: 696 3; 32

EUf U\ 0MKT0DQT

O kpngv pgo ul gtgypgm f gco k²pnd³n gi {gv^oa^uv o kp/
f gpnqt ul gtgwgm c J cdudwi qn0 H n²r n²v p^an²pm v²to gw
f qn q< c hqttefc²o c²ev² u c vqnelk dqt⁰C| gi {km c n²p{/
j^atc j q| qwl» uqnev. c o^a ukmc r kpe²tg xgvwr qo r^a∅

C hqttefc²o cnd»n ul²r gp r²g²gw r²p| gpk< l»ul^ai qnev
gm²phk²n²pk c| qnev t²ul²kv r²p|²tv. t²ul²kv cl^apf²ndcp
e²n|gt ddgp gr²ul²qi cvpk ô c dqt>n r g²ki l»|| gngv
r²g²wk²pk0

J c c vqnelk j gi {gv gn r²g²gw xqpc kppgp x²pk xcr/
j qi { . dk qp{ o^at t²i gp pgo xqpc \ go r²p o gi {²dgp.
fg o kxgn pgo r²g²gw. j^av eucm c r²x²v j qtf²v m gn c eu^aul^atk
cul²wrc D²eudg0

P²j c dk qp{ gl ug xqiv n²pp{ . nk^aiv c m²we/ndcpe
xk^ai dcp0 Nkr»v eu^aul^atpcm gi { 38: 4 l²pkwu 5/^ap n²rv tgp/
f g²vg o wcd0 Ftcj glo Xkro qupcm c ul gr²guk n²o ctc vgt²
n²v²p n²phk²n²iv l»ul^ai qm² u c vqnelk nk^an²k ul n m ki c|/
icw²l^apcm ul»n c rctpeu. j qi { c r²it²kl²gdd kf crw
n²rf l²p jcto kpe j qtf» vqnelk cul²Av c nk^an²k r kpe²nd r0
C J qo qpp^ap kf | Dctm²e| { Hgtpe i t>h i g²gt^ark²n r g²ki
n²tlgp cpp{k n²vq^av. co gpp{k c dqtpcm An²4 dgp xcn
o gi t²u²tg r²gi gpf pgmo wcv²ul kn0

Ftcj glo Xkro qu. c| gn w mw{ckf qo ¶» c Mtgv²gt/
euc²f p^an eucm n²ugf r²go o gn h²gr²ij g²gw o gi c t²g²pf g²ypgm
o gtv cpp{k dqt²n²ul r²v pgo r²x²p. j wul qp²3/4 vcn²tl^axcn c
v²to gn m²n x^au^atqiv²3/4ul g o²i p²j^ap{ j qtf»v. o ¶ ul^ao vm
x²i tg o gi Av²4vg c jcto kpegi {g²0 Dctm²e| { lu gm²rf v²
n²u²tg²Av c j wul qpp²i { x^an²i cvq²v n²vq^av O q^apel k O k^an²

nī rī t xgl g²ug crcw euwrc qn{cp rgi²p{gngv. cnknpgm jcu/ p^av xgj gvpk0 Gi {km c dqtj q|²tv. o^aukm c j qtf»eukp^arī uj q|. o kxgnj qi { o²i xcucdtqpeuqm pgo xqncm h^ld»n xcn»nev cmem c|vem xci { dgtñ²xgn n³/4 xguu| xgn ngn²gw c fqp/ i^anev 3/4u| gwtvcpk u c| kn{gp i {gpi g nqcn{le² n³/4pp{gp o gi/ gtgu| ngf km t^a|^au o kcw c| Awq. rgi {gp j^av. cnk h³/4dgtñ²|k0 Xqrv c| v^p qn{cp nevpc. cnk c| wcv wf^vc D²euki v³/4dd kt^ap{dcp. o gi qn{cp. cnk c u| cdn^av hqti cwc l»n j c xcrcj qn rqtv^a|» mātweeucvqm xgu²n{gl vgp²m c n³/4f go²p{v. o gi qn{cp. cnk hmtcpi i cn 3/4ngwn c rgi pgj gl gdd j gn| gv/ dgp ku hgncl^anc o ci^a v0 U »xcn l»n o gi x^a rqi cwc ngv c i gpg/ t^a rku. vgw²dg gi { nku nevq^au dgu²ffgn ku hki {gm gl vgw o gi d²| cv³ uwmhqpva^a i^a tc0

ô I qpf qn^a vqm o gi. o kv xku| vgn0 Gdd n c dqt d»n x²t rgu| u o kxgn eu^a u^a tk hco f²tc ku| c. eu^a u^a tk x²t rgu| 0 Vgj^a v eu^a u^a tqvm x²t²v xku| kgn0 Dk qp{ dqrupf u| gtgpe² vgm xcp c| gdw cwc#

C j²x p^at x²i²p. Mkuu| qp{ pcrlc gn w xci { n²v j²vgn kpf wv o gi c|²tf gngu nctcx^ap pci { txcu| u^a i i cn²u n³/4 Angnp²uugr0 C j wu| qpp²i { nevq^ap n³/4 An n²v wf xct/ d²|»d»n Mergo gp L»| ugh²u X²i j O^a v^au. c Ftej glo go/ dgtgld n xcrco kpv c nqeuqund»n^a nv c nku eucrv0 J cvp xqncm nqxcuqm u cmñ²pv qu| vq³m dg o ci wnev. j qi { ngwgp o kpf ki gn tg l^atlcpcm xci { gi { h²nt^axcn xku| v^p vctwc c| wcv u j c pgvñ^p mātweqm o wcvu| p^apcm xku| cp{ct/ i crkc o^au Atc vgtgr²m c u| gngtgngv0 C pci { dclwu| A nī rī t Oqt^apel k wi {cpeucm wf^vc c o »f l^av0 Lrgu k²| ngf²ug xqrv c| ku. j qi { o kpf gpnk xguug ng c nevqpc/o wpf²tv u c hgi {/ xgtgmgn gi { Aw tglv²m gn c u| gngtgngp0 Kivp o gpvu rcdpe/ tw^adcp hqn{vcpk c j quu| A wcv0 Gn rgi gypg lwpk c o gpp{/ qtu^ai dc vñ^p gñ²i l»nqt. fg D²eudg crki 0 C o wpf²tv o clf h³/4xgu| km c p²o gv j cv³tqp u co Ai { rgenugp nkp{crkc xqpwpcm dg D²eu hcnw^adc. fg cffki eucm qnqucdd rctcu| v pemo ctef pk0

V^am^at»n gn dd Mcu^atc ngn²gw o gppk c j qn c nēo ctc u|²ngv²u gi { nku i lwu rncgk²/v i {cnqtqn= gw c j cto kpe/ gi {gf km j qtf»v gi {o^aun³/4 v hgn| v^am t²i k A wu u| gtlpv c v^p^a euquqm o gi m»uvñ^am²u c| v o qpf l^am j qi { rkegv xci { pqp rkegv0 C| gp³/4n Ycnugi i t»h cnknpgm j^atqo t²u| l^at. l»pcm vñ^{nc} c dqtv. eugwgpvgw c p{grk²xgn u c| o kzwo eqo rqukwo u³/4mu^axcn o gn{d n n³xkñ^ai rkm j qi { ugo o k p{grk²gvpgo wf qwl»n nko qpf v c u| gpvpe² v<

ô Hkpwo xlpwo Vqmcl kpw 0

Mk^a n^a x^a p gl | gn c dk qp { x^a p { v j qi { c dqt v c euf^a u^a t
ku o gi kj cvlc. Àpcm kpf wncm c n^a vq^a m D² eu hgr^a. gr^a n c n^a v
ekt^a n^a n^a n^a xcu. c v^a dldgm t² u^a kpv c u^a gmgtgngp Àngm t² u^a kpv
r gfk^a c u^a gn^a t o gmgw r^a r gi gwgn⁰ Dqrf qi m x^a t^a ki pgo ku
v^a 4^a v^a pv ugo o k fg o^a t c xqi { k^a ck x³ 4^a i { p { f^a ud^a n m^a tve
j wu^a t qmdwmc^a pvc^a mnk^a r^a gi gwgmxc^a i { w^a gp³ 4^a gp⁰

N^a w^a p c n^a ucp f³ e³ 4^a u^a gmgtgngv. ² r^a pm | u^a n^a o p { /
u^a lo cwcn gr^a gn^a gl ngf vgm c | Àvq^a < c | gi { km go dgt^a m gn tg
n^a xci qm u n^a 4^a gndg lwx^a. j ct^a p { j cpi qp u^a » n^a qwc o gi
c u^a gmgtgur ctcu^a vqmc^a

ô O kvxku^a vgm^a

ô Dqtv ô hgrng^a c o guvtgo dgtgu ³ n³ 4^a 2^m Mgrgo gp
L> | ughwf xctd^a f^a » hgi o^a xcn⁰

ô Mkp^a gmc p² r g xci { vqm^a

ô O kn³ 4^a 3^a 4^a j q | ^a A

ô Cf^a vqmo gi o ci cvqmc^a #

ô O clf j c hci { ô nk^a n^a xku^a c O qt^a pe^a k | qtf qpcp⁰

ô Cm^a q^a j^a v dcl r^a u^a | ô j cpi q^a v^a c m^a tve j wu^a t c nk^a p^a gm
c f qm^a p { c. o gp^a v^a lg rgtqpi { q^a kc ech^a vqnd^a cp n^a i qwc v^a u^a p⁰

ô P go h^a n^a p^a m^a o o k cv^a ^a hlc⁰

ô Rgfki n^a t c | qn^a cp x^a | dg r^a r pk j² n^a u. ô hgrgug^a v
xgn mc m^a tve j wu^a t ô c nk^a p^a gmc n^a 4^a k^a v^a pgo r^a v^a vqn⁰

U gl | gn xku^a cp { cti c^a v^a 3^a 4^a k^a j gl. xcn^a o k^a v^a pc^a n^a f^a qw
xgn n^a 2^a u^a kuo² v^a c | gm^a p^a u^a i hgr^a n^a xci qn⁰

ô C r cl^a v^a ucl^a c | v o qpf^a m j qi { cf l^a vqm k^a g c dq/
tqnd^a n gi { j qtf^a » xcn c | v^a p o gpl^a vgm K^a v^a gp j^a t^a xgn⁰ N^a v^a m
u^a gi² p { h³ 4^a p² r g xci { vqn⁰

ô J o. v^a f^a p h^a n^a gm^a ô euk^a ngf v^a g o gi ngv O qt^a pe^a k
x² t^a u^a go gv ner x^a c d² m^a r^a ngp { u^a c xcn^a n o kn³ 4^a dgp l^a »
h^a v^a 4^a ngvgt gi g^a v^a c r k^a l^a d^a » n⁰

C m^a tve j wu^a t o gi dqt^a p^a n^a | qw gl gp c eu^a h^a q^a n^a f^a uq^a p⁰

ô Dq^a n^a pf dgu² f gl. j c^a rlc^a # M^a gp^a vgm uq^a cugo h^a n^a
j g^a p^a gm^a q^a n^a cp n^a x^a gug^a. c nk^a p² no pmpg h^a n^a 2^a p^a m^a n^a x^a gug^a d^a gv⁰

ô P q j^a v^a pgo cf w^a pmgi { i { u^a p { kvug⁰

G | xqm c | w^a ko^a wo⁰ Gttg pgo n^a 4^a g^a v^a n^a | j g^a v^a w o^a u.
eucm c v^a o cf^a u⁰ J clt^a # Gn tg^a | U c^a rcl^a r ctcu^a # Ng c n^a v^a
twe^a cr^a # C | ^a n^a r ctcu^a vqm nk^a p^a i cw^a m j k^a v^a gp hgi { xgtgk^a n^a v
c j qtf^a » m o gm n u o k^a gr^a qi { v^a dldgp xqncm gi { nku l^a »
o ctcn^a f^a u w^a p gp^a ur^a p^a i qn^a m² u gmgti gw² m c m^a tve/
eqne⁰ Gi { / n^a v n^a m^a i gv. n^a teq^a n^a uv c r^a dcpeqm ku ner vcm
fg lgrgp^a v^a ngp { gdd u² t^a r^a v^a eucm X² i j O k^a n^a | w^a co u^a gp/

xfg gw. nk v ku qw nngw j ci {pk c uqm x²txgu v²u o kw c
Mcy ctkpc/o clqt lwj^aul^ap^an j cff i {>i {wrlqp o gi ²u
o gplgp c| v²p j c| c0

C v²ddk gm gmpdgp Tq| up {> hgr² j A² >fx^ap. co kv² q| {
o gpvgm o gpf gi²ngm vgt o²u| gvugp dgu²ri gwgm ku. o²i
r gf ki c| gr² Anvncrpf t> r0

ô O k| gp l>. j qi { qfc pgo cf w m c| gi { j qtf > dqt v
co kv² tvgn0

ô P ci { u| ²i {gp rgwxqpc. j c qf ccf lwn0

a Fg j^avj c gr²kv²m xqpc gt u| cmcnA ô gm²pxgv²
P ci { I gt| uqp0

ô C| ku u| ²i {gp ngppg ô hgrng Oqt^ape| k0 ô | u
cmqt o quvo^at eumj wu| qpnk²gpe j qtf > vxk²pp²pmD²eudg0

ô Xk²i qu gdd n ô lgi {gl v² o gi Dwl²qu> O^av^au
ô j qi { c| c| gi { j qtf > c o k²tf go An0K c| /g. I { wncA

I { wnc r²xq² An. h²v² {³/₄² u| gwu c| v hgrng m²v²p<

ô Xqncn²r r gp c o kdqtwpn0

ô Cn²t o gi ku kj cv^apm ô ncr qw c vgu| gv u i qpf q/
rcvq Eur > Hgtgpe. cnk²gm c| cp {lc pgo gu r^ap { xq² c| ²tv
o gtv lqddcp nk {kpkc u| ^al^aw0

Mrgo gp L>| ughw²xctd²> wco c h²ng v²/₄²vxcnetvc0

ô Pqpq0 P g qnqum²lcqn0 P ci {qp ³/₄u| gu| kf pc o kp/
ngvc eu^a u| ^at0

Rqvtq {ckXkpeg j kv²gp²Ant^a | vc x³/₄³/₄u| hgl²<

ô Vw² ku c| o ci {ctwnA

ô Ok dclwpm guj gv²mA ô o ci {ct^a | vc Mkm Lcpeuk
cnk o kv² nkeur qw fl²m ngt²An c ugt gi j gl ²u u| gtgvw qnqu/
nqf pl0 J c c d²euk wcm c jcto kpef km j qtf > v ngtgukm n²p {/
p {gp t^a o qpf j cvwm j qi { v² o cf > m²weqm xk²m gr0 O gi /
o²tm | v²pm xgn²Am qw c dk qp {u^ai. gi { pgj² | ugdgu²An
X²i j O^av^au wco. o gi c o k²m ugdglpn0 Dk qp { gr²i u| ²r.
j qi { c v²dk j qtf > v o gi o gpv²An0 O²i u| kv² l>. j c eum
j wu| qpnk²gpe j qtf > v cf wpm^av u o knqt c jcto kpef knv
ngtgukm gn j q| cnqf j cwpm j qi { c| v x²t²Am j wn^au^axen
xgu| vgw²Am gr0 i { o²i hgn²i g ku wf qo^auv u| gtgl xk²|
u²i An² n vcn²p ncr wpm ku xcrc0 k0 Fg j c vgr²gu gi²u| ²dgp
xku| Am dg c j qtf > nev. dk qp { o gi ugo n²tf gl km j qi { u
o kv²u| qn^a v²An²/₄ dgp gi²u| u²i An0

ô J o. gddgp xcp xcrc0 k ô j ci {vc t^a c| wf xctd²>0
ô | p o gi pgo tgv^anm²n go dgt gn w. j c cp {c u| An²
²u kw c o gn²tg An²/₄w+. fg o kpf gpnqt o gi tgv^anm c| ²u
²u c| ki c| u^a i gn w0

U gi { eu³r gv ugo xqiv o^at gmgpg. jc c| gi { kmj qtf ».
o kpv c xk²| u²i lwcm c. eucrte xgtgvkn⁰ J ku| gp c| ki c|. j Å { ¶ { pgo rgu| dgn rg eu^au^atk x²t. fg cffki l» c|. o ¶
c n³4³pu²i gugdd tci l^ap o ctcf0

J^av Åi { ku rgw. o gi ng| f²m c dqtv u xk^ao cp kf fq/
i^ancm c| Åqp0 O kg c| ²lu| cnck u^am²utc. Xtcple^atc ²tygm
cj qn c o gi dgu²r²u u| gtlpv c n²v gn rhw» ku x^atv. o^at gi {
eu³r ug xqiv c j qtf » hgp gn²p0 EuAu| km c| c dqt. o kpv c ug/
n| go 0 C n²v gn rhw» c| qpdc. cnk pgo xqiv qw c| kx^aup^an
u cnkn²n vrgugp o gi hrgf ng| vgm gi { u| gttg pci { u| ³4 gv
Å³4v c nnggo gu o^ao qttcn nkd Åvtq| qw nqr qp{^andc0 J qj ».
j ku| gl gm pgo t²u| gugk c f²xcl eu²p{pgm xci { ku²i dgnk^an»
ki c| u^ai vcrpu^ai v³4²pv xgn Ån0 Xk^ai qu vj^av j qi { c j k^av
j gn|tg ngm Åpk xci { ku dg ngm ngv ku o^atvcp⁰ Gppgm
rgfki eucm gi { o »flc xcp< o²i gi { j qtf »v gr wu| v²cp⁰
C| mgpu²i. co gn| gi { j qtf »v gr wu|. ²rr gp Åi { gr kgi gv
ngw v ku0 U v u²i { gp xqpc. jc qn| cp o ctqmp{ k nwtveu^ai
xgu| kgnv n²m co gn| kmpgm²i gi { j qtf »0

Mergo gp wf xctd ¶ » wco netcmgt. o gi kpv eucm n²p{/
vrgp xqiv o gi tgv^atpk c| ki c| u^ai gn w0 Xtcple^ap vj^av o gi/
kw³m c o^aukm j qtf »v ku= c n²v gn rhw» wi { cpeucm n²tr »/
vqnc o ci^av0

C n²4gvng| pcr Tq| up{ »ki ngn²gw xqpc gr²tpk²m fg
gl pgo xqiv u| gtgpeu²u pcr. o kpl^atv ³4gi tgi i gn jcdqu
n²xcm²p p{cti cncm xku| c c| gn tg m²Åf³4v tu| go gm j qi {
c rtx^apnck x³4i { dgp v³4³n²m ²u m²weqm v²dqtq| pcn0
Cpp{ kxcp. o kpv c xctl Å0

Pqu| c. jco et nk²tpk c f n Åtc u c U| ncr/j gi { o mgw
gi { gpgup pgnk^ai pk c p{ ¶|gtf pgn0 —wcrp/wcn²up dq/
n| qpi vcm gukn ²vrgp/u| qo lcp. hcnw pgo r²wc. ²rgm gv pgo
u| gtgl j gw⁰ C pci { xcti cdgv m c ngt Å²ugm c| v qnq| v²m
j Å { v²ip o quv o guu| gdd xqncm Tq| up{ » »n o kpv o knqt
j clpcndcp Xtcple^at » n Åpcmngmgn0

Gi { hgrkf²nk i n| è *cp{c+ nku j^a| km²l^ap^an^a mcm o gi
go dgtgk²m j qi { »w v²4km c| ²lu| cn²v0 | vgn n²tygm fg
pgo cnfv c vcp^ap cpp{ k gppkxcm »0 V³4²pgvugp xcrc0 k
ner^ar²u xqiv j^av gi { euqo » pcr u^ao qu. o gp{ geun²m
r^ap{ qm xqncm ³4u| gi { rkg. c| qm m²wtle^av o gpvm n²pk
o gi u Å³4v²m c| ²j gu rgi ²p{ gmpgm u²r gp n²dqi » v² Å gmp²r0
Pq gl v dl qp{ xku| qpq| pk ngn²w0 Dgeu Å²gv fqi c c| kn| gp0
Eucrte Å³4vgm gi { j qtf »v ²u o gi j ¶²m t^a c| ³4u| gu qw
r²x p²ru²i gv0 O knqt o^at l » m²f x Åm xqiv c| ³4f³4 pgo

cnul km xcrcj qppcp gn ngt[~]ñv gi { f wf c. c vcp{^a u h[~]l[~]pk ngl f v g
2u o gi kpv hgn ngnw^a rf q| pk gi { j qtf »v. o gtv j^a v d^a n rgw
c x²i g⁰O ci c wf xctd[¶]» wco tqr v c ngi nkct»ddcp<

ô — j vl# Eucm c| c o kpm co kv o gi kul wpm eucm c|
c eu^a ul^a t². co kvo gi pgo kul wpm⁰

| u [~]3/4 gwg j q| |^a wi t^a uqm n[~]3/4 dgp pci { n[~]2 p { gugp c
euk⁰ o cu^a t^a v⁰

Gi² ul tgi i grki o wrcwem u cmf vcm t^a f² ri 0 V³/4 dgp
2 dtgf vgm hgn o kpv co gpp { kpv rghm[~]ñf vgm= c ngmkuo gtgv
ku hgr[~] dtgf v⁰ D^a i { cf vcp. n[~]2 cpi qncp hqn{ v w[~] m [~]ñ wnev
eucm [~]ñ { vcr[~] nqo tc Tq| up { » hgr[~] 0 M[~]ñ[~]3/4 p³/4 ugp wf xctd[¶]»
wco xqr[~] pci { qp gnul qp v { qn[~] f xc. j qn c hgl² v xcmctv. j qn
w> j clvq w⁰ Pgo m[~]ñ[~]3/4 pdgp kf gi gu kpi gtr[~] n[~]2 p { u² i hqi v gn
O qt^a pel kvc p² i { [~]ñ gu j qtf » n[~]2 w[~] tc⁰

ô P q c nkuch[~] l^a # Pgo wf qo . o kn[~] r r gp o^a ul wpm
nk gdd nc urco cu| vkn[~] d> r⁰

O kpf p {^a l^a pcm c| qtte x² tg hqn{ v. eucm n[~]2 u dd xk^a i q| /
v[~] mhgn² ul l^a t^a uwnev p² o kdk[~] v w> dgu² f gmg[~] r⁰

ô Wl { cp. wl { cp. ô o qpf qwc Ml km lcp^e uk c| wf xct/
d[¶]» pcm ô xcp ku o kpv uqr^a p n[~]2 f pl# Eucm pgo i qpf qnc
ngi { gm[~] gf. j qi { o k xcrc⁰ knqt D² eudg lwwpm o^a t wf pl/
kn km c dqtten gi { [~]ñ w⁰ Ngi gv v ugp c|. j qi { c m[~] w eqm o gi pg
ul qt[¶] ucp cmgi { kn { gp j quul [~]ñ [~]ñ qv xcrcj qr⁰

ô U gpv gi { ki c|. j quul A [~]ñ v uqm o kpf gp v[~]4 v[~]2 pj gvk m
qf^a ki ô f qj qi v Mergo gp gn qpf qm[~] ul xc⁰

ô Qn[~] cp o kpf gi { . o gpp { kv k wpm o gi. j qi { pgo ku
2 tf go gut> r dgu² rpk⁰ hqn{ v[~] Ml kn⁰

ô Fg j c c dqtwpnev grxgul km ô n[~]2 tf gl v Mpcx^a ul
L>| uk⁰ xgn[~] p mcm[~] qt o krgul A

ô Hwteuc#J^a vo kpngvku grhqi pcn⁰

ô C| v ul gtgv² o² p r[~] vpk ô hqt v { cpv hgn O qt^a pel k
o kpv gi { j³/4 eu³/4 0

ô O^a t kul gp o gi ku r[~] vlc n[~]2 g. ô hgr[~] v pgnk Xkf qu ô
o gtv² p ku c| v o qpf qo . j qi { gmgt[~] ñ j gv v p. nkx^a n[~]2 o knqt
c Fw^a j q| 2 t[~] ñ m j qncpp { kc m[~] w e. o kpv c ul [~]ñ p { qi 0

Cff ki / cff ki dgu² n[~]2 gm j qi { x² i tg o gi d[~] t^a v[~] ul vcm
c i qpf qnc w[~] r⁰ u[~] ul gnc[~] f pcm c m[~] w weecn u c m[~] w e n[~]2 p hku/
n[~]2 rlc c ul gmgt gngv⁰ C| 2 tv o kpf gi { . j qi { o gpp { k j ¶ c c dqt/
pcn⁰ Ncu[~] p / r[~] u[~] p j kv rgw c xc n> ul ¶ p u² i d n o gn { o gi /
hqi cpv u i { qtu[~] p w f qi o^a x^a. o gtv rgtul g hqn{ v p m[~] /
euq[~] m pci { qnev j³/4 r gpw² p. gr[~] k v g xc m[~] uqu kpf ¶ » qnd> n
o kpf gp ngtgul v gn w. n[~]2 u dd c| v[~] p l[~]3/4 f tcl k ul go r qpv d> n

o kpf gp hcnw ul²řp c r qti qř^a vmp^a ř0 Ngi nřu dd c j kfc m
 vku| vřgv ku dgrngxgtgf gw c pci { krcnřf^a udc0 Wqr^a tc
 rgf ki cpp{ktc xkw² m j qi { ko o^a t c| grñi {cu| vřv dqt v
 ng| f^v m xgppk dk vřp^a i dc j gn| gl gwpgm² u c vřv j qtf » mtc
 p² | vřm ul gr gi xg. o² řcd Āucp. hgleu » x^a ř uucř) ì J^a v pgo
 Křgp gřgp x² vřm gl c mřtveqm i² i² l² dg# J^a v xcp Křgp.
 j c gl vo kpf mkuul^a mo gi #

Tq| up { » t » n F qduk^a tc o gpgv o^a t cddcj ci { v^a m c|
 gn řhw » mnkm Āř² u² ř0

ô O křgm c| A ô o ci { ct^a | v c| wf xctd Āř » 0 ô Hř⁴ ř⁴ /
 řgi gu xcrco k0 O kv nřt Āř Āř m c| gngt Āř j gvgvřp# J c mřtveecn
 xci { ř⁴ ř³ ř³ mgn nřm vřř mř | pwp m j^a v vřř mř | | vřn# Gn dd
 xci { w » dd. Āi { ku o kpf gi { #

F qduk^a » n \ » nř qo ki qnř cp řuucp o gřvřm *c hřppo ctf v
 nt » p křc ul gt kv + ì o kpv c| t^a m c| ² řgu| v xgm xci { p² i {
 j gnř gp o gi^a mcm v Āř gv tcmcm kxqi cwcm² u gi { gngp² i gv
 ug vřř ncn0 Mřl f gwo² t c f qñi hřteuc řppl#

C Mřk^a p { / j gi { cřw x² i tg ul go dg l³ ř⁴ v gi { mřtve
 eucr cv F guugy hř { R^a n nř k^a p { xg| ² trvg cřw0 O guul k n
 ř^a w^a m fg pgo nřt Āř² m nř0 P q. kv c f³ ř^v r gte0 O quv řgu| .
 co k řgu| 0 O kpf gp ul Āř j cpi qucp f qdq qw0 F g c mřtve eucr cv
 *xqřv xci { ul^a | ř³ ř^x gp go dgt+ gřo gpv o gngw Āř m ul » p² n
 m Āř0 C řcdpeqm x² tu| go gv nř xc. kpeugmřf p nřcd^a nřm
 w^a p w nř

ô Mřw { mřtve#

F g dk c| qmo² i j^a vtc ug hřtf vncn0

Mřgo gp vřco j^a vtc o ctf v gi { nřeukv c ul gngt gm
 o ř⁴ ř⁴ v p² o k vřp^a eunř |^a vtc O qt^a pe| kxřř) Gdd n ku ul Āř gv gw
 gi { pcr k ctepeu0

ô f nř # ô xg| ² p { gng O qt^a pe| k0

C eucr cvo gi^a mřw0

ô Mřvřp^a nř G| gm c ul co^a t mřtveqm c| v j ku km j qi {
 o ci { ct rctcu| vřm xci { vřm u pgo d^a pvcpcm dgpp Āř nřv0
 C| rgf ki ng| f o^a t pgo l » řppk0 C| ² tv j^a v ř³ ř⁴ c o vřf² tv.
 j c f f ř^a u^a m j qi { j c f cmxci { vřn#

.. nř⁴ nř⁴ ² u nř⁴ dgp o gi kv kvcm *o d^a t o^a t pgo uqm
 j qtf » xqřv² tlv vřgvřp+ u² lu| cñř tc ul gt gpeu² ugř gřlwqřm
 Dgu| vřtegd^a p^a tc0

V nř⁴ p Āř nřn0 C dk qp { vřřp^a i p { w i vřřp^a i qv hřcf /
 | qw. c p { w i vřřp^a i kř gi gu² i gv0 C dqt hři { qw. D² eu nř⁴ g/
 řf gw. c j vtqm | m Āř v c p { cmv m nř⁴ Āř0

J clpcndcp. o knřt Dgu| vřte² t n P { ktc hřř² vřvřp^a pcm

dÀu hglgn o gi kpv gn rhw»nev mÑf^{3/4}w nk Oqt^ape|kO Eucn|
j qi { o quv¶¶ { u| »n<

ô O gplgvem gi {gpguv gl gp c| Àxqp²u wf cnaq| »f lcvqm
c u| go dgl^{3/4}k mv n j c plpeu mwtwe c xqpcnqp. rgi {gvem i {qt/
ucp j ¶¶cf^auucr|

Xci {ku o quv o^at pgo gl²tv ngnmw hgrhgf gl pk c mwtweqv.
j qi { qf c pg o gplgpgm cj qn xcp. fg gmgpnl rgi . j qi { ctte
pg o gplgpgm cj qnplpeu|

Eucn| co ct lgnpvgw²m ku c xku| cnqxc| qrv tu| go gm
j qi { u| » ukpeu mwtwe qnt»n c o gi ngl fgw Àxqp. fg pgo ku
rgj gv o gtv vÀn c fgo dqp c| gi²u| x^{3/4}ai {gv c d^at» Gpv|/h²rg
ncdpe ugtgi rgr kgr|

Kgf vgp t^apvq^wm o gi gttg c ncp^vtv c nqxcuqm c i {gr/
n ngyv nqeuqn|

ô J »#Hqtf wlvpmxku| c#

V²p{rgi xku| chqtf wncm fg eucm c| gm o gn²mÀki =
kw lqddtc ncp{ctqf x^ap. e²ncrcpwn dtepi qncm c n^{3/4}p{²ngp
^{3/4}u| g/xku| c. mwtweqm w^vp wf cnaq| xc c| qm»n cnknv w»k/
²tvem xci { cnknmgn wcr¹mq| vcn| Fg pgo²tv ugo o kO O gtv
cnkn xgn^{Am} tgl vgm o gi o qpf^vm c| ki c| k j gn| gv. cj qn c
mwtweqnev wf^vm pgj qi { dgf¹l^{Am} dqvrdcpem= cnkn gmgp/
dgp pgo tqnqpu| gp xgl vgm xgn^{Am} ²rrgp c| qnev c j gn| gngv
lgr^{3/4}n²m o gi mwtweo pvgugnpgm cj qn mwtweqm xqncm j qi {
xcrcj qi { nkpg ngt^{Am} n|

O kvj qi { rgf ki rgj gv vgp xqrv nkcr¹pk nk c dct^av.
nk c| gmgp²i. wf xctd¶¶ » wco x²itg ku o gi wpc c dqmpf
l^av l^atpk o gi v²xgu| v dgu|²fgntg j cni cvpk mwtweqm w^vp
hwnqupk u c| qnev ²rrgp gl^ancn nkngt^{Am}pk u²r j wri¹ o qu
xf²ntg lwx. gi { xcf n^{3/4}vghc^ancn dg^atp{²nqrv o gl gk
hqt^aup^an hgm^knqw< ì @uu^{Am} kw u^atev²u pg o q| f wlvpm
gn kppgp v²ddv| Ngu| co k ngu| Æ Fg j qx^a ku o gpvm xqpcA
Mkj gl A O gttgA O k²tvA J ku| gp o^at pgo xkwgm ugo o kv pgo
vctvqcm ugo gttg| Dqt. dgeu^{Am}gv gihqi {qv| O^at eucm c d t^{Am}
t nxcv u| »Uc| vrgi cr¹dd c pcr h²p{ pgo u^{Am}kkvc|^atp{²ndcp|

O^at xci { n²v per lc rgl ugnm c n^{3/4}vghc crw. o knqt
n^{en}k^aur cteu| vo gp{ geung l^{3/4}vcttc. cm^axenc nquct^adcp|

O gi^a n¶¶qv^wm cm^av x^au^atqncm v rg. o gi euk rnf^vm u
xku^{¶¶}q| qw<

ô Glp{g. j^avo ci qmku qn{cp u| go vgrpgmA

ô O kpmkuAJ^avo²i nknA

ô C mwtwe nevqpcvku| vgm cnkn qw c mwtwe^audcp
xcf^au| pcm co gtt n l^{3/4}ago |

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

O q t a p e l k O k j a n . c n k g f f k i g i { n g f x g p u l q r q i c w e c
 r k r c u l a t a p c m p g o c u l a l a d e x c n x 2 i 2 v * g n h q i { x a p c f q j a p { /
 n e + n g i q w h g n i t q w u p c i { u g d d g n / r q d d e n t g p f g m g l p k n g l f g w 0

o J q i { c f q f c h g j 2 t u l c n i e u n i f c v . j A i q o A

U l p g u n i 4 2 p { j g n { g w c n w n t q l v q u h g j 2 t u l c n i e u n i v x k u g r v
 c o g p { g e u n g 0

o O k g l » c l n g f p g m A o o q t q i v e c l w f x c t d f » 0

o O c l f o g i n v l c . n g i { g m g f 0 O q u v c l q p d e p c f l q p
 p g n k j c o t t g i { r a t g l A u r 2 p l v 2 t v g 0

O k g n k u l A v g i { g l A n h q t k p v q v . f g q n { c p h 3 4 w 2 v g m g n j q i {
 q r f j c u u c n g c w a c l f q p n g l g k x g r 0 N o . o k n { g p l o r q u l v q t 0

O q t a p e l k n g x a i q w g i { x 2 n u p { i c m { c v c n i 4 v g l t » n
 q f c n i 4 3 4 w g c u l c n i e u n i v h g j 2 t | a u l n » p c m u c l | c n n e t c A n k 2 p .
 o c i c u t c h e p p v c t x c c d 2 n g l g r x 2 p { v . k p v g w c v 4 d d k p g m <

o W 9 p c o #

o O k v q r f l c o / h q r f l c o . o c m w n q t l e a u d e p e u c m i { c p
 n i v m a t w e k u l v x c f a u l q w 0 O c l v j 2 p { k R a n 2 u O q v g u l e l n f
 L a p q u n e r k a p { q n 0 P 2 j a p { h q i n { q v c n e t v e m j c l c x l p p k x c e u q /
 t a t c c f q o d v A n u » q r f c i p r k j g p v d q t d c u g i { n k e u l p { v
 o g u u l g g m g t 2 u l n g f v g n 0 J c n x a p c n f q d q i a u v o g i c n e v q p c /
 n r r v g n v . c o c i q m g o d e t g k y j k v 2 m e u c m o k n u t c u l q n e v r p
 o c i c u m w n q t l e c u l a t e m n i 4 A n n k i r v g m x g w 2 m 2 u l t g k g f v g p .
 j q i { n e d c e p e q m n g l 2 d g n g t A n g n 0 O q v g u l e l n f g n i r c f v 2 u
 g m i t q o n u f v c o c i a <

o G n x c i { w p m x g u l x g #

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

o P g o g d d g p c l k a p { d e p x c i { q p c l f q i q n p e m o k
 x q n l c . k p u v n q o . o g t v 0 0

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

o O g t v o h q n { v v o o q u e p u a i c u l c n u p p e p c i { q d d k m
 q r f c r c l c x c u e d d 0

ô O kA ô nîtf² O qvule| mî | cxctwp. o gi ngr gv xg0
 O qt^ape| ko gi nîdqî cvcw c hġ²t u| cñf eunî²p{ v0

ô Ġj qnc| hwpf co gpwo 0

ô P go ²tvgo 0

ô Xci {ku o k cnetlwm o ci wpmv o gi cf pk0 Xkx^av Vj ³/₄
 nî⁴ Kō tg#

ô Xkx^a# ô | Ìi v̄ m c v̄⁴ddk rdcpeqm u tgpftg ng/
 tcm⁹ mnetflwncv kũ| vgmgn w0

ô Mkm o km j^av ngpf vgm xqncnî^r r gpA ô u| »iv nî⁴ dg
 O clġ²p{k o quvo ^at u| cdcf rî^rgmġ gj ġ lwxco

ô O k c Dctm̄e| { i gpġ^a rku j cf lĀk xci {wpm ô hġrgng
 Mîkm Rerġ ô ²u dqtv xlp²pm V^am^at»n ġ ġngp c u| ġmġġngp
 D²eudg. c eū^a u^a tpcn0

ô | uA

ô Qu| v̄i j^av dcl xcp xgrġ ô xgwg ^av c u| »v kuo ²v
 O qt^ape| k0

ô J qi {/j qi {A

ô O kxgrġ qi { o gi kx»fqw0

O quv ng| fvg c| v̄p o gi ²tvġpk c f³/₄i²uv c nî^v m̄tve
 kũ| v u c j ġn| ġv o ci curv̄^atc go ġmġf xg. O qvule| mî dct^av
 ũⁱ qu o quqm{cno qpf c<

ô Go dġk fqmî. cv^a o hck0 Dk qp{ gppgm eucm c| c|
 qtxqu^a ic. j qi { u| ²r gp nî⁴/₄| ²v̄m o gi o ci cvqm̄v j cff
 rî^u^a m c o k hġrgng| ġvpm j qi { dgeu³ġvġu ġi ũⁱ dc ġugv̄m
^ancm̄pn0P go rî^u ġp ugo o kd^a p»f^a uqno

©i { ku ngw. ³/₄u| ġmî⁴/₄ v̄² m gi {o^a uv. ngwġ² xgn dcmci /
 x^a p c f qo d v̄^u» qrf cñ^a p p{ Ìi ũⁱ v̄^a dqt hġf. c nî^v Ìt ġn w.
 nkm co qn{cp ġi n{qv pgo n v̄m gi {ġv ugo. fg xkũ| pġm
 kn{ġpd ngrġi ġpf v0

˘T˘ KDKTVQM

L» kf ġġ ġġ ġv o^a t cppcm o knqt dg^a nî⁴q w j q| ^apm c
 nî⁴p{ xnkcf »o ²u c| v c| cl^a p̄vqv v̄wg. j qi { Ìt c n̄c f l c
 nî⁴p{ xġlo ġv0

ô J^a v eucm v̄u² m ô o qpf^a o. fg cñ⁴ dġp l»n o gi /
 p² | vgo . pl̄peu/ġ xcrc o kġm gdġk ġi { c wq| ^auc0

ô K ġp. ô hġrgng ô fg^a m̄r qf l̄wpm o gi c j qpqt^a tkwo
 k^a p v0

ô J qpqt^a tkwo A J^a v o kv ġġ ġv qn{cp nî⁴p{ xgnî² tv cf pk
 co ġn{ ġngvo ^a t o ġpf ġpnkqkcuq w. cnk^a p̄vco ²tf ġm f knA

ô | p ¾g| gt hqtkpvv clª pñm hgn0 Gñi ngu| A
 ¾g| gt hqtkpvv0 P {kxc o ctfv c ulª lco. fg gi { ul »v
 ugo dñwco nkg|vpgk= p²oª p eucr vco ng| go gv c vgp {gt² dg0
 C hrgu² i go ²u c i {gtgngm ku qw Ængm c| cu| vcpª r0
 Qñ{cp o gi f³/ddgpv Æppgr² n{gu² i xqiv g nñ| eucwcpª udcv.
 j qi { c| cuu| qp { gnj crª p {qf qw u c i {gto gngm ² rñ pm hki {g/
 ngo o gn hñi i gu| vgm tª pm f k » d c t p c ul go geunñ kngv0 C o ceunñ.
 co gn {gv ² r r gp cmñt cnetvcm jª o dc hqi pk nku| cdcf wñ
 u ¾u| vñ pu| gt ngi c nñcf » ¾ñ² dg wi tqw0

ô Vg jª v x² i g| vñ pm ô ul »ñv Æñ gw| gt t³ k k f u² i i gn c
 nñcf » ô ulee. v g ewf ct#

C o ceunñ v ngtª | v c v² tf gk n ²u gnñ xq| qw0

ô Mñeulp xci {qm ulgvgn ô o ci {ctª | v c| clv » d » n ô
 o clf gmññ ¾ñ cññª u x² i gwc ul gt| f² u0

ô Pci {qp l » ngu| 0

Gi {gf Æñ o ctfv wpn0 C hrgu² i go k i c v w c p hqtf wñ
 hññ o 0

ô U| gpv Kñgp. ô ul »ñv o gi hñ rki k g f v hñ rki hq| v qv
 j cpi qp ô o kv hqi c p p {k vñ ² tf gnr ² p | | gneulpª r p k A

ô O k v A J qi { o kv ô j c f c t v c o o ² i o k p v i { gmñ d wñ /
 v c p ô jª v o kv nñ j guugp c p p {k r ² p | | gn v g p p k o gi xª r e u | v c q o
 c i {gtgngvñ r xkugn pgn0

ô G| v c p² i {² xgu i {gtgngv# ô p g x g v g w hgn c| cuu| qp {0

ô Jª v o gi x c p d q m p f w x c A

ô K c | . k i c | 0 G n k u h g n l v g w o 0

U g | | g n q f c u | c n f v c o c p c i { q d d k m h k c o j q | u g i { d c t c e /
 n q v p { q o v c o c u | ¾ u | n g h g l ² t g <

ô P q . v g d w n i k j c e u c m g i { t h g n p c i { q d d x q r pª n
 o q u v o k p i {ª t v nñ r x k u g n v e u l pª r p² m d g n r g f 0

N c e k n e u lª l c u lª u t c h g t f A n v c d e t c e m » r 0 C | c p { l c nñ 4 d g /
 u | » n <

ô J q r u | c . i { g t g n g n # P g x g u ² v g m n k c rª v q n e v 0 C | Æ
 \ª r q n c Lª p q u 0

C i { g t o g n g m g m g | f v g m n e c i p k o k p v c nñ v n k u e u g p /
 i g v | e u k l p i g r p g . c | c p { l w m x g t u g p { v p g x g v g w x g n Æ n < p g o
 n g j g g w o g iª nñ c p l 0

ô W i { c p p g e u k r q i l c v q m k w # C | g o d g t p g o k u v c pª e u /
 n q | j c v k n 0

ô Oª t c | v c n k u ¾ 4 ¾ o g v k u k k i { r k v r g o 0

ô O c iª p c m u g o o k ² t | ² n g c n q o q n | f q n i q m kª p v
 O q u v c | ¾ g | g t h q t k p v » n x c p u | » 0

ô Dª p q o k u ² p c | ¾ g | g t h q t k p vª v ô xª i q w x k u | c

f wte^a ucp0 ô Eulpa^a dqp xgrg co kv cnet0 Vwf qo . Ài { ugo j cm
i cvc| 2p vcp^a euqo tc0

ô J^a vo kxqpc c vcp^a eucA

ô J qi { xgi { Āpmtclvc gi { dktvqnq0

ô DktvqnqvA L>0 Xgi { Āpn0 Fg o leuqf c dktvqnqv rgj gypg
¾g| gt hqtlpvqp xgppkA

ô Xci { p{qre| gt hqtlpvqucv. ¾xgp/j cvxcp j qrf cv. u| 2r
nku | ukpf gn{gu j^a | ceunf xcr0 J^a tqo /p²i { g| gttgn cf»ucm ku
o ctfj cv^a pn0

ô J gn{gu0Ngi {gp o gi vj^a vc dktvqn0

Hgru²i go ctec nkf gt Āw u p{qo dcp gm| f v g c i {gtg/
ngnpgmdgu| 2 rpk0

ô Pqu| c. o gplgvgm eu»nqrlvcqm ng| gv c| cr^a eunf pcm
cnk pgm gm dktvqnqv xgu| 0 C dktvqnq ḡdqeknē rgul pgm cnkn
d i pk hqi pcm c| ku³m»dcp ḡeqe»nē rgul pgm c| gi {knpgm
hgi²t r³o r^au rgul c| qtt^ap. vn{kic ku rgul c| wf xctqp. cddc
hgi¹a mdgrg c euceukv. cnkv c Lcpeuknē hqi j clvcpk0 J^a v o 2i c
ngtv. c| rgul o 2i eucm c i {¾p{¾ u²i 0 Qw hqi vqm ngti gv | pk
rgr n²v hqi f qupk o cf^a t²u| ngnv u| gf pl0 C| v³p vgr Āngv Ām
c| gi²u| gv i {Āo ¾eul¹m nēn²u co knqt o gi²j g| vgm Ncekne
hgrō gi { c l¹tc. o gi t^a | c c i cm{cnev. eucm Āi { hqi t»nm
r qv{qi pk c uqm eugtgu| p{g. L¹pqune cwn rgul²u c nērcr l^a dc
u| gf k0

L¹pqune u¹xc hēnf. j qi { dk qp{ pgo rgul cwn o gtv
j c Ncek o gi { hgn c l¹tc. cmqt o kpf o gi v¹r¹lc gppk c eug/
tgu| p{2 v²u pgo o ctf ugo o k rgt^a | pk xcn»0 J cff rgi {gp cwn
c Ncek0

Fg o^a t c o ci c lqi ckd»n pgo gpi gf c d^a v{c<i C| 2tv ku
eucm²p o gi {gmhgn c l¹tc. 2p t^a | qo o gi c i cm{cnev0ē

kpeugmgf u| » kpeugmgf ddgv n²4|ng| km c n²v i {gtgm
¾u| gxgu| 2u dktm»|^a utc ngt Ānc f qri 0

J cu| vcrp eukw¹lc c| cp{lvnκ

ô P g d^a puf # Gtgu| f gr# Glp{g. o qtf k qo i {gtg/
ngk# Crc. pg xgi {gp g| gnpgm c i c| go dgtgnpgm dktvqnqv#
O gi ¾p²mo ci wnev c j c¹ n¹pmw³p c| qu| vq| nqf^a up^a r#

J co ct ¾u| gxgu| pgm j co ct nkd²m¹pgm o^a t gi { »tc
o Āxc det^a v^a i qucp gi { Āw j Āi^a r^a m c nku u| ngmtgv u x¹ cp
u| cxf pcmGt| ukp²pkgr². cnkxk²nt n²tng| km¹vqi c w>dc0

C n²v cuu| qp{ ¾u| geu»nq»| km u o gi kpf wn c uqng| gt
n²tf²u0

O k Ālu^a i p^a rēvqmA J qi { xcp g|. j qi { xcp c| A Mk j cv
o gi A Mk l^a t lgi {dgpA Mk l wqw c| ¾ Āngm j^a |^a dcA C uqm

∇ o c n̄4 3/4w pgo ku gi 2u| gp c n̄gi x2i 2 p grf leugmul km c hgrg/
u2i go . j qi { gi { nku dktvqnyv u| gtgv2 pm nkp2 | pk xcrc k
u| 2r gv. qreuv xcrcj qn c p2 pl2 m n̄4p {2 n̄p0
Gt| ukp2 pko kpf l^a tvcl^a pngi { gv

ô P q. c| dk qp { l» ngu hco . i { gto gngo 0 Vwf qf o kv
xgi { 2 vgm o gi Dktkn̄p. c| 3/4 xgi { O cr̄ vj { L» | ughp2 2 v. c| v
o ci cf ku 3/4o gtgf 0 3/4xgpj^a tqo j qrf. cdd» n j Æu| neu^a n». .
eulpqu j^a | 3/4 u| qd^a xcn xcn» u^a i qu neu^a n{. u c| qm c h̄4u² i gu
pci { lf mc ngtvdgp0C| gi { rctm 2 f gu j Æi qo 0

ô F g j^a vgrcf »/gA

ô Oclf c| ngu pgo uqn̄tc0 P go cf qm pgnk gi { h̄n/
gul vgpf v0 H̄Åki cf »u^a i dcp xcp c| c| cuu| qp { 0 Rgtul g c
uqm rwee0 F qdte xgtkm h̄ceun̄i o 0 J c en̄tlc. j c pgo 0 F g
ngj gv j qi { u| cdcf n̄ | d nku grcf »0

ô W̄i { cp wf lc nk 2 f gu p2 pkn̄ o 0

ô P g h̄n. o clf n̄scr qi cvqo 2 p 2 u ¶ qm pgmgn0 P go
cf p^a o c xk̄i i 2 tv. j c n̄4 gngo dgp r̄nj cvp^a vqn0

C ì dktkn̄gkdktvqm̄e o quvo^a t pcr kn̄ tf 2 ug ngu c j^a | pcn0

Gur̄ pn̄ pv c i { gtgn̄mc r̄ghgn̄x 2 up 2 n o kn̄qt o^a t c| cp { lwm
v̄gp { gt 2 pgm^a tp { 2 n̄ d » n ∇ o cf v p { w̄ceune l » n nku| cr̄cf i^a nc
o ci^a v c h̄r̄qp. c u| go gl̄ntg gtgul ngf^a n̄qo o cn dktm | xc
uwwqi l^a n̄c ì O co w̄n̄e. o gur̄ n̄l̄gp c dktvqnt »#ē

C| c| w̄p dgrngl f u Æi { h̄r̄kputw̄ h̄c c| v c dktvqnyv
o kpf gph̄rg k̄i cxqp» 2 u u^a tp { cu^a n̄wcn u^a 2 pcne | r̄m̄en
co km cr̄w dÀ »uf kv ngj gv l^a u| cpk n̄qeuku | ¶ pgmgn̄ cj qn o kp/
f gp n̄ki qpf qj cv» l^a to xcp. vxcmm̄en o gn̄ gn̄dgp j cr̄m
Æu| n̄i pcm j qi { c| xcn» u^a i qu o k̄w/i c | f cu^a i 0 O 2 i n̄pe ku
xcp c Dqf tkp { cr̄i p gl Æud n c L^a pqune o qpqi teo o l^a xcr̄o

M̄Ån̄p 3/4 ugp u| 2 r c n̄gtv. pci { n̄qo dqu. o cf^a th̄ u| ngu
l^a k̄cr̄o U gi 2 p { n̄ v nku h̄co cr̄wqm cnu| km gn o kpf gp^a rf qw
2 llgr̄o0

J^a v o qpf qo . c i { gtgn̄m o^a t j » pcr qm » w̄ qw j^a n̄cm
c dktvqnyv. f g p̄rr̄en ku 2 dtgp i { cntcp u| cr̄cf v qf c c| gul Æn0
J c i 3/4 3/4 fl̄pp { 2 v gwgm c o ci qnev u| 2 r gp h̄ r̄t̄gtcm̄ n̄c ì l »
ngu gn̄ Ångvpk c dktvqnyv̄. j c xcrc k w̄tne qo p̄kdwu | r̄q̄xev
o gi n̄ wem c| cd̄r̄enl̄ » n p { qo dcp p̄nggo guvgn̄c ì O gpl̄gp
rg. xgi { g o gi . gr̄kluu Ænc dktvqntc0

¶ i {^a m̄cm̄c f̄qi qm co kn̄qt gi { nku n̄qph̄r̄kn̄w̄uqo ∇ o cf v
c n̄kf » xcr̄c c| gi { km n̄4 p { xtg. co kv dgr̄n̄ 2 vgw c u| gt | /
f 2 ugu o w̄pn̄ n̄lc. gi { o^a u n̄kf » h̄qto^a n̄ lqi qv. u pgo ku ngj g/
v̄gw v r̄g gr̄k̄c̄vp̄k0 Go k̄cw c| 3/4 g| gt h̄qtk̄p̄qu u| gt | f 2 u 2 tx 2 p { g
o gi k̄pi qw0C| c| o 2 i o quvku h̄Åi i dgp xcp0

U qo qtÀcp o gpvgo j c| c0 X²i g xcp vj^a∅ Fg o knr
o qpf lco o gi qwj qp. j qi { qfc c f qo ¶pkwo 0 U gi²p { hrg/
u²i go pci { qp gnhi u| qo qtqf pk0

Gij . o²i ku wf v³tc cf qo = lqdd. j c^a vukmtclvc0

ô Hlco . ô j q| cmf vco gn n¹p²rgvugp. i {³pi²f gp ô
uqx^ap { c o k u| gtgpeu²pn0 Crki j c rgu| xcrc0 k cdd»n c u| gt| /
f²ud n0

ô J qi { /j qi { Aô n¹tf² gi { ngf x gp0

ô C| gi { km n¹p { xgv qfc pgo cf j cvqo . o gtv o^at c
o^au² uc nkcf »²rr gp c| vc n¹p { xgvcm¹tlc0

ô C| dk qp { nmggo gvwp ô xgvwg qfc n¹pp { gf²p u
n¹4³o d³ugp n¹ vqwc per kf qi c w³p0

Euqf^amq| vco . d^at³4Àngo . j qi { pgo pci { qp xgu| k c
ngm²tg. r gfk i o gpp { kg c u| ¶k²j g| p w g| c vgtx0 O²i ku
m¹n¹4³o³ugmc| cuu| qp { qn0

J cpgo o²i lqddcp^a o wnc0 o^aupcr. o knut j c| c²txg
c u| gtngu| v u²i d n tqrr epv j ctc i dcp vñ nco c| cuu| qp { v=
f w| qi qw. xgu| gngf gw. eucr nqf vc c| clv»nev²u kf gi gugp
n¹4³o³ugc v³p {²tqnev c| cu| vmp0

ô | u o ci^a pcmo^at o gi kvo kc delcA

ô M¹r | g| g eucm c| c i c| O cñ vj { p² gi²u| gp v³4pntg/
vgu| kc l¹ knev. v³4n¹rgvugp grt qpf ¶lc c ngtv0

ô O k¹ r¹ g l¹ knevA

ô J^a v c l¹ knev0 O quv ner vco c| Gt| uk p²pkv n rxxgry.
j qi { c| v o qpf lc. gi { fctednc v¹ gn v ugo xgu|. j cpgo
o kpf gp j²v³gp nkx^ai gi { l¹∅ P go tgvwpvgu g| A J^av ngj gv
c| k¹ gvv tpkAkvppgo . kvppgo . c| qnev c i {³p {³4 l¹nev#

ô Wi { cp. wi { cp. rgi { gp gu| g0 C|³4² c ngtv. ucl^a v^av
x^ai lc0

ô J ku| gp o ci c o kpf gpv n¹4³pp { gp xgu| 0 Vgrlgu²ngv²/
dgp n¹4³pp { gn xqn0

U ¶pgrwj ctc i enr cvcpvco hgn<

ô Kc|. ki c|. o ci c c mqo qn{ i qpf qmq|^auÀ (00) Fg
gr¹i o^at. co k j »dqtv. c| j »dqtv. j c o²i gi { u| gt gn j q|^am
pgngo c| vc dk vqnqv. t³4 v³p gnwc| qo c x^atqud»n0

P go j q| v^am gn v³4ddgv o ¶ pgo gi { per o ci co qrxcu/
vco c| qf excn» ner dcp. j qi { Dk l¹pn¹p v| xqn u c O cñ vj {²m
j^a| c. o kpf gppgo l»u^ai c gr¹i gw0

ô P q. j^arc kvpppgm ô n¹ngm gwgo hgn dk qp { qu vknqu
³4³o gn o gtv j^kdc. nku² c|² p ngf²n¹go gv ku p { qo vc c
dltvqn0 O quv²p rpp²m c v | n¹txcmqv0 Fg l». j qi { ugo o ko
ulpeu0

Ukwgo kuj c| c. lgrgpvqpc l» j ¶t0
 ô Vwf l^a m^g o kv⁴v²pvA
 ô Pq. wi {cp o kA
 ô Mgffgp xktcf »tc gr²i gw rqtta c Ocñ vj {p² j^a|c.
 o kpf gp²r Avgv. o²i c ngtvl²kku ul²pp² rgt| ugn f vgn0
 ô Ngj gv²v²gp ô fcfqi v c hngv²i go gñj crk^ap {qfxc u
 ng²Av gi { ul²ntg0
 C| v²p o gtgxgp p²| gw o ci c gr². gi qpf qm²| qw. o clf
 ul gr²f n²vul go gkd no gi gtgf v²mr cvndcp c n²pp {gn0
 C i {gtgnm h²r²pn²gp ulo wncmj q| |^a0 O gi hqi v²m c ul qm²
 p {^al^av u gndqtwn» vgn²pv²gn p²| v²m o kv²c nk cnetp^am
 vñ²pk<
 ô Oc dclc xcp00 co wncA
 ô / Gr²i gw. ngf xgun²ko c dktv²nv²qñ0 P kpeu o^at pgn²
 vgm ugo o kgm c xkf²i qp0 O ktg c v| n²txcn²q w dktv²nv²qum
 o²eug ku gn²v. u j cpi qu d i²u²gn ukc²v²m o gi c dkt²pn²gk
 dktv²nv²0

R0LQTM

O kpf gp uul gn gi { j gv² ul qmco xcf^a ul pk Rcn²lv {
 R^an p {wi cno c| qw tpci {p^an gi { xcu²vo gp²gv hcn²dcp c
 Hgnkf²ngp0 O kv²qi { ug x^atqu. ug xgp²i n pl²peu An²4/
 dgp u c| Av rgi cñ dd v²gn²v »t^aki vctv. tgp²gugp o qtg
 r cvtk² w²| qo qfc. o gi tcn²q w ul gn²ttgn vgn²u xcf^a ul /
 hgn²l gtgr²u²gn= c h²xtqu²o *tgp²gugp Dqf|^ak O^av^au v²co +
 gi { |u²m |cdqv i {³/₀ ³/₄ ³/₄ c n²q²ek²Av²u cñ. gi { ul gtgf^auv
 n²v c n eutg. co kv c i c| fcu²l qp {qo vgn²tem j kf gi² n²gm k /
 ul gtgmgn c o^aukm n eutg c m²v²eu²v cñ²ul v²c. x²i tgcuctci /
 n^adc p²j^ap { ul²pcn²v²gi gv j cno q| hgn Ai {j qi { c| gi²ul
^amcrqv qn²cph²to^ap h²gv. o kv²c gi { ul²pcdq²i n²c cñw
 An²p²m tgi i gn²n gv²r²ki u m²Av²pd³/₄ i ktdg/i v²dc xkf²ngm r²r /
 ngf p²pgmgn² vgo OU²p eucmgi {ul gt ul go r²v²ctv²p²n0
 C| Av gr²i h²gv kxq²pc. fg o kw²p ul^a| ul qt l^at²co . vpcñ /
 o cur^a x^am. Ai { kuo gtgo o^at. o kv²c v²p {gtgo gv0 K²v gi {
 qfxcu h². qw gi { ul cñf²m c| qp²v² t²vgm j wñ²o qu ul^ap²v /
 h²4f gm² u ¶ { vx^add0 Vwf qo . o gn²km x³/₄i { j qx^a p {¶ km
 o gn²km f qo d xci { j gi { i gt²pe j qn²t x²i gv c r cvcmj qn²ci {
 gn u j qn dwn²ep gn o gi kv². xci { xci { gi { n²ugddkm v²gv /
 x²tg. cñkm o kpf c ngv²gp c| cp {lwnj q| k²ctn²q fpcm ô u c|
 c I c²co 0 Qu²gn²p v²Av Al eugto gn²gm gtgm h²wpcm r cln²qcp

c npxcm o gmgw fg gl gm o^at c X^ai eucrf f j q| vctv| pcm u
vku| v^o dd gl Ánd nxcn»n0

O kpf gp^a rfqw² x dgp n^ovul gt o gpvgo gttg. eucm² rrgp
3; 27/dgp pgo . o kpv qi { c| tpci { R^{3/4}v² pdgp v^{3/4}n^{3/4}v^g c|
u| v c n^{3/4}u| x²p { g o kcw0 C| kf²p. o kj gn(v c p { wrcm hqi n| qm
o gi p wgm o^at cwi wu| wu x²i g gn w o gi kpf wnc o j q| |^a.
fg c vqr kmu j u²i o kcw eucm w| uqppc w³p0 C per v^ot
j qrf xk^a i qu² lu| cni v^o |² tv. ² rkg| gvrgu| wcl pkc j x^{3/4}u^{3/4}p0

O k g Rtd»etc² v^o Ápm dggvngf gw. c dwdgrp { knk o cni
o qp o^at pgo d^o f^o vco gnrkxcpk c telc ngx j^o f^o gu hgrkcvq
*o kpvgi { c o qp^at j gpegi² u² v<

J c xk^o go xcp. dqtvku| qo .

J c xk^o go pkpeu. xk^o gvku| qo 0

C o cm qv grj ci { xc. gt u hgrj m ngtgmgf vgm U| kp { c
hgn n u qn{ cp n^{3/4} f² u nqtqo u^{3/4} v² i v^o o cf v o kpv co kn{ gp c
nqu u| ctx^a dcp dgn Ánrgj gv0

Eucm Ái { vcr^o n^o te fr gi gvgw c n^ov rgl. c h^o xctqu.
Dqf |^a k O^a v^o u j quu| Ác gtgu| w² p c i { gr n v. vgrgu eugrni
x² uk u| cdcf u^o i qv j ci { qw pgnkm *j ku| gp gr^o i j quu| Á c|
² lu| cmc+. gi { n^o eukv grd»dkunqv. eucm c |^{3/4} mrgp np² n tkcf v
hgn² p o ci co ku u| wpf kn^o nco gi { n^o eukv. grj cv^o tq| x^a p.
j qi { c| qu| gpnc n^o euo^a dcp gvgv Ápm² u cmqt o k ku hcrvq/
| wpmc vctku| p {^a d»n0

i { o gpv Ápm o p^o gf gi² n Ápm fg eucm pgo cnc tv Qu| gpnc
gn l^{3/4} p^o l^o Ok c| ^{3/4} f^{3/4} A Ok v^{3/4} v^o pv c| | cn c hcnxcnA J ku| gp
pgo xqrv c| c o cmqo »n o guu| gdd vxcn{ gi { h^o n»tck Áv^a r0
O quv o gi o^at n^o v »t^a lc ku o gi { Ápn0 Rgf ki o^at² j gu xci { qn0
Ok f qm^o i c| . O^a v^o uA

O qti qw xcrv kv j qi { c npxcm c ucl^a v n^o dwncv ug n^o v^a m
j^a vxci { n^o eukp { gngv fr pgm xci { wi { cpcttc c j gn{ tg fr r pgn0

P go xqnc o wi { cp o gi gr^o i gf xg c o ci { ct^a | cvcn fg
c|² tv o gi cf vco o ci co cv c uqtupcm² u o gi kpv o gpv Ápm
xci { o^a u^o r n»t^a vu Qu| gpnc o² i o kpf ki pgo o wcvnu| qw0

ô O^a v^o u. O^a v^o u. o kpg o l» Áq p l^a twpn0

ô O ci co ug ugvml»v. pci { u^o i qu wco 0

ô J qnc r qmrdcp rgj gv ÁpmA

ô J ku| gp² rrgp c| qp i qpf qmuf qo o ci co ku0

ô Dk qp { qc p rg² tv n^o gpf xcrj qnc j gn{ gu Át»nA

ô Eucm c| c| gi { pgo rgj gv ô hgrng u² tv fxg0 ô

O^a u ngu| kvc f qm^o i dcp0

ô P qA

ô O kpn^gv c o^apv^jc xgl gv ô uwwqi v dcdq^a u h²ng/
ngo o gn u r¹pk x²ngo . co kpv ngtgul vgv xgv u j cncpk j qi { c
hji c^kxceqi pcn0

C ì o^apv^jc cē n³/₄ ãngn^ã c| v c t^cpi qv xlugrk c o k xk²/
n^ãpn³/₄p. co kv c f²o qp v³/₄n³/₄v^dg c t²i kp²r gmp²r0

ô Dqmpf ngpf O^av^ãu. j cpgo o^at o quv eucm o gplgp
gn tg. o ¶i xcro k hcnw²t^ãpm xci { xcrcn^kxgn vcr¹mq| wpm
cnko gi o qpf lc. j qnxc i { wpm² u ãdcki c| ¶i0

O gpv^ãpm ku. fg pgo uqnr¹ki. o gtv gi {u| gt eucm pci {qv
tgeeugpv c u| gn²t² u r²gj wrcpv c j^awau» qif crc0 Xci { c
ngt²m^v/₄vgn xci { c v^gpi gn0

ô J^av pgo o qpf wco. j qi { c o^apv^jc xgl gv0 Gj qn pk0
Glp { g c n^klg^g| qo^a #

Ngwi tqwwpm o gi xk¹ui^a nwm c n^qeuk0 C v^gpi gn0 v³/₄v gn0
Xcro k nku h³/₄f u| cncf²ndc eu^ãu| qw dg c j^awau» dcmgt²n0
Pq. u²r gp xci {wpm0 Xcnc^tv c hgl²v Dqf|^ak< O quv r¹i {
qnu. F qo qpn^qu0

ô P^kpeu kw o^au v^gppkxcn». j cnc. eucmj qi { o c^tcf lq
xgul vgi c n^xcn^p^an²p r g^fki o gi { gm c r wnr¹xcn gn tg. o ¶i
go dgtv. hcnw. xci { v^c{^avcr¹nm² u ugi ¶u²i gvj q| qn0

ô F g j qi { vcr¹nxku| c c u| gn²tj g| A

ô Kw jci {qo c xcf^au^ã ãm³/₄0 Hãllqp ngpf dgrg h²n'
»t^apn²pv. j qi { c j cpi k^ap{^adcp v³l²mq| >flco 0

O quv c| v³p gr^kpf wnc^o vcr¹mq^otc vcr¹p. u^ap^vuq^p.
dwen¹u rgi gn n³/₄p ngtgul v^ã0 P²j qn j wnr¹o| » m^wnt^lec^v drc
^amc wco cv. u| gn¹ uwj qi^a ucn o gtv u²n²rr g^pu²i i gn pgo
hãl⁰ O²nc eu³/₄p j qpqn^c v^gto²u| gvdgp. eucm gi {/gi { xce/
nr¹d»n h³/₄xgtv p{ãn qnu| qw p²o k |³/₄gl⁰ M²v²i vgrg. j qi {
xcro kl²rdgpj ci {qwf n ãtc v²xgf v^ãpn0

Gi {u| gt/gi {u| gt o gi^amco. n³/₄ãp²| vgo. j qn r kncp/
v^p2m o gi r^au| vt^vã gv j cmi cv»| wco. pgo /g j cncp²m mw{c/
wⁱ c^vu0 U^gj qn ugo o k pgu|. eucm c d²n¹m m^www{qncm o guu| g
xcrcj qn xcro ko qeu²tdcp0

O gj gwgo xci { n²v nkr^qo²v^gtp{k^v o kn^qt gi { nku h²p{v
r kncp^qwco o gi lqddn²| hgn n= pgo pci {qddcv. o kpv gi {
t²|i qo d. o gn¹ ncu^cp v³xq^qf pk ãi {u| »k^ap ãu| pk r¹u| qw
c| tdgp. o kpv c v^l^au²ti^alc c detpc r^xgudgp0 J qnc#
G| gi { go dgt. r¹o r^au^cr# Weew. w³pc# Hw^pk ng| f vgo
hgr¹lg. fg pgo r²gj g^vw w»r¹tpk0 Cm²m culpv ku h^wq^w gn ngo 0
O gi^anr¹# Uq^l# ô n^kcd^anco w³pc n²v²rg p{gr^kgp.
f g h³/₄ug xgw^g eucmo gpv. o gpv^u| ãpv^gpã0

O²i lqddcp pgn^kco qf wco u d^at c j cpi {c| uqo d²nm¹

dcp. det^a | f^a ndcp o kpf wpcrcp o gi dqwq c r^o dco . o² i ku
 ul go r^o wq^a uv hqi {pk ngl f gw c v^o xqnr^a i *c| ki c| . c ul wul ku+
 o^a t crki r^o j gwgo p² j^a p{ r^o r² up{ kg. À {j qi { dgrgugw c
 n v^o xqr^o c0

ô Go dgt^a ml o gi . ô nk^a n^o o vgr^o gu gt o d n o² i gi {/
 ul gt ô o gtvn^a r^o pdgp r^o k^o n0

U g hgp {gi g^o u n^o dgp 3/4 p^o p{ vgr^o p^a n hgr^o À\ vo c
 neneuv fg o quv gi {ul gttg. | uwr ul v h^o d^o wnc^o xcrc^o k nk^o qo /
 dqtqf» h^o f^o j^a p^a udc^o u crki j qi { h^o n^o r^a ul nqf vo . ku^o v
 grugvo gi { n^o k^o g^o ngl dgp. o² i r^o g^o ki c hgi {xgttg t^a euc^o r»f»
 ngl go n^o k^o g^o ngl v^o dgp À { . j qi { c r wnc^o gn^o v^o pci { f^o 3/4 t^o /
 p² uugn tqr qi qw. uwj qi qw c nk^o w i qn^o » c r^o xgi dgp. o k^o v^o c
 gi { »t^o k^o uko² t^o gv hng^o v^o r^o qul »v^o j cuf^o cpc x² i ki xcrc^o n0

Dqt| cf^a n^o h^o wq^o x² i ki c j^a v i g^o t^o pego gp0 C r^o r^a uqu
 go dgt gn^o pv c ul go go gn n j k^o gv r^o gi c i qn^o » v^o t^o g^o w^o r^o g0
 Fg o² i gpp² n ku lqddcp o gi t² o An^o go . o kn^o t^o gi { c p{ w i c^o k
 2 i r^o g^o go gp ek^o n^o c^o m^o qul » xkn^o o r^o u o gi xkn^o i q^o w^o c j gn^o gv.
 cj qn^a m^o c . c| c| . cj qn r^o g xqnc^o gux^o g0 P² j^a p{ h^o ku j^a p^a uÀ
 u^o f^o qo d xqn^o n^o d^o p{ g^o gvgo OJ^a v^o k^o g^o x^o g^o gv^o w^o c o^a p^o v^o j cA

Fg gl c h^o r^o g^o euc^o m^o gi { r^o g^o t^o ki v^o t^o v^o w0 C| gi { km ul 3/4 /
 p{ u^o i h^o r^o c^o n^o c o^a uk^o n ul 3/4 p{ u^o i g^o w0 J ku^o gp j c n^o f^o t^o v^o gv
 x^o g^o gv^o k^o g . c^o m^o t^o p^o go n w^o go o gi c r^o r^a uqu go dgt^o v0
 O quv o^a t ngl f^o v^o go ku go r^o ngl pk j qi { c h^o p{ h^o d^o g^o dd l^o tv c
 r^o xgi dgp. o k^o v^o co kn^o gp o ci cuc^o gi { r^o r^o gi gv go dgt v^o t^o v
 j^o c^o v^o c r^o r^a u^o Ugo o k n^o v^o i j^a v . nk^o f^o t^o el^o p{ xq^o w . o gn^o
 n^o d^o 3/4 p^o u^o i g^o gp c v^o go gv n^o d^o g^o 2 u o qeuct^o n^o d^o euc^o m^o i^o v^o c
 n^o f^o t^o l^o v0

M^o n^o go gv^o gp wi {cp g j gn^o gp v^o r^o r^o pk o ci co cv . o k^o p^o gp
 vi qo t^o gu^o n^o v^o ul q^o go j cpi qucp xgt . o k^o v^o c n^o r^o r^a eu . fg j c
 qn^o qucp o gi i q^o f^o q^o . c^o m^o t^o n^o d^o r^o gn^o l» À^o q^o xci {qm
 o gtv cj qn v^o go gv xcp . qw h^o n^o w^o cm ku n^o gm r^o pp^o k0 ~ xc^o qucp
 gn^o r^o n^o g^o x^o c u^o f^o qm n^o d^o 3/4 w . À { t² o r^o w . j qi { xcrc^o nk o gi /
 n^o r^o lc c r^o dco c^o X² i t^o g^o *p^o go uqm u^o f^o xq^o n+ nk^o w^o q^o w^o gi {gp^o gu
 v^o r^o l^o c0 U 3/4 p{ r^o k^o gi² uugn k^o co q^o f^o vo o quv c h^o n^o h^o r^o . o gn^o /
 pgm k^a p{^a v² r^o u neneu^o m^o n^o t² n^o q^o u lgr^o | v^o g r^o g^o t^o edgp0 Cteqo /
 t»n c n^o f^o p^o x^o g^o t^o g^o l^o v^o m eu^o ti qw . j c^o n^o p^o v^o n^o clo n^o À^o m^o g^o w^o gm o g^o n^o go
 | k^o j^a n^o . o² i v^o r^o p c eu^o q^o v^o l^o clo ku t^o gu^o n^o g^o w^o n^o o quv v^o pv nk
 j qi { c w^o f^o qo^a p{^a n^o gt ug^o dd c r^o q² | ku0 Vw^o f^o qo . j qi { pk^o eu
 n^o f^o t^o v^o gv . fg o k^o gn hqi co cv xceqi v^o l^o c c h^o r^o g^o . j^a v j ku^o go .
 j qi { xcp= c| gu^o go w^o f^o l^o c . j qi { pk^o eu . fg c j^a v^o . c j qo /
 n^o q^o w^o . c ul q^o go . c| k^o f^o gi g^o k^o p^o go c^o n^o t^o l^a m w^o f^o pk ô o k^o p² n^o
 hqi xc p^o go 2 t c w^o f^a u^o go ugo o k0

J qi { c| qpdcp c r̄ dco cv n̄r nqf v̄ m xqpc c n̄r² tv̄gvm
 g i { cp̄À c̄n̄n eucnj co ct n̄r p { v̄gr̄p xq̄mco n̄v xk| v̄ | p̄k0
 Cpp { k l̄i c | . j qi { o kn̄qt h̄rgvgo . xcr̄o k n̄x̄leu eūÀ | j cv̄q
 dg c ekr̄ o dg. c | u| Àv dgr̄g c d̄q̄n̄i o dc o k̄p̄f gp r̄r² up² r̄0
 C h̄cn̄w h̄gr̄ p { cti c̄k̄^a p. n̄llgd̄d eūÀ | qw c m u o gv̄u | . ² r̄u
 l̄f lf̄cm̄ cv q̄n̄q | qw. fg pgo ² tgl̄ v̄go eucm l̄f r̄gr̄o gv̄0 Co k̄p̄v
 c | qpdcp gi { À l̄ x̄kn̄i o r̄i up^a n̄ gr̄i o wi tqw * o k̄p̄vi { c x³ ī { dg
 r̄geūÀ | xc+ gi { euqo » h̄j² t j^a | ceunc. xk| qp̄v pgo ² tgl̄ v̄go
 ugo o k̄gi { gd̄gv eucmc r̄i dco dcp l̄f lf̄cm̄ cv0

C u| ² n̄u j^a | | cn̄ u| go dgp gi { pci { qf xcu h̄c d̄À ūq̄pi qw.
 v̄c̄r̄i p gi { n̄kt̄ qw gtf p̄gm w̄qn̄ » fctcdlc. o gn̄ { p̄gm ² r̄gv² v
 p { k̄k̄^a p c d̄gvi u² i g j quu | cdd̄ q̄w̄c o gi. co gpp { k̄d̄gp gi {
 O^a tk̄/ n̄r̄ x̄q̄v c | qf x^a dcp gr̄j gn̄ | g | xg. r̄ k̄n̄i n̄q̄n̄ » ² eugu x² t/
 l̄f p { ² xgn o gi x̄k̄i i q̄xc= c h̄gl̄u | g o gi n̄f̄o ² nḡ c | qf xcu^a i c.
 kn̄v r̄gi c n̄r̄ o k̄w. u v c h̄cn̄wuk n̄gi { gr̄v gi { ã n̄ r̄cf̄ qv
^a n̄f̄ q̄w̄c̄r̄ l̄c0

W̄i { cp̄ n̄r̄ » tc l̄³ w̄ o quv. o gtv ² r̄r̄gp gi { kn̄gp r̄c̄f̄c
 x^a i { v̄o r̄ḡÀ p̄k j qi { qw r̄j̄ À x^a p c ekr̄ o gv. n̄k̄^a | j cuco
 dgn̄ r̄g c n̄x̄leu q̄0 Gi { gp̄gugp qf̄cv̄t̄q̄w̄c. fg g r̄kn̄p̄cv̄dcp
 gi { l̄f̄ th̄k̄cm̄ n̄³ gn̄i gw c h̄cn̄w h̄gn̄ r̄0 .. uu | gtl̄ | gp̄v̄go . o gi /
^a m̄co ² u x^a m̄co j q | go gn̄go c r̄w̄n̄i v. o gn̄ { p̄gm gi { km̄ eu³ / g
 o gi X̄q̄v o ² i v̄³ x̄g0 J qi { o k̄² tv̄ tgl̄ | gp̄v̄go ³ u | g gi { gr̄x̄gp
 go dgtv n pgo w̄f̄qm̄ o ci co p̄cm̄ gtt n u | ^a o qv cf̄ p̄k0 O gtv
 j k̄u | gp̄ c | ² tv̄ l̄³ w̄go . j qi { go dgtv v̄c̄r̄i r̄lc̄m̄x̄c̄r̄j q̄r̄0

C l̄f̄ th̄k̄ gi { gp̄ḡv̄ c l̄f̄ j q | v̄ct̄q̄w̄0 Qf̄ c² tx̄g. c n̄ku o ² eu
 gi { u | go r̄kn̄p̄c̄v̄c̄ o gi x̄k̄i i q̄w̄c0 H̄lc̄v̄n l̄f̄ th̄k̄ x̄q̄v. gl̄ ã v̄/
 n̄ct̄kn̄i m̄en c h̄À r̄gd̄gp. o w̄n̄i u | gt p̄c̄f̄ t^a i qv x̄kuḡv̄ fg o gn̄/
 r̄f̄ p { ² u w̄lc̄u pgo x̄q̄v t̄cl̄v̄0 P go uq̄n̄i x̄k̄ u i ^a r̄j̄ c̄w̄c. o gtv
 gn̄ f̄q̄i c x̄q̄v c o ² euḡv̄ n̄k̄q̄nc̄p̄k u | ^a p̄f̄ ² n̄q̄uc̄p u | gr̄v̄ r̄p̄/
 i ḡx̄g t^a c n̄er̄r̄ l̄^a x̄c̄r̄0

G r̄kn̄p̄cv̄dcp ² u | t̄ḡx̄gw ² u o k̄p̄v c n̄kn̄ w p { ã n̄ h̄gr̄i o
 u | c̄r̄f̄ v̄0

ô K j̄cx̄g l̄w̄v r̄w̄ qw̄ v̄j̄ g r̄k̄i j̄v ô u | » n̄v t̄gl̄v̄r̄o gu.
 uww̄qi » j̄c̄pi q̄p0 ô Ky cu h̄gr̄k̄p̄i . { qw̄ et̄ eqo o k̄pi o { uȳ gḡv̄/
 j̄gct̄v̄0 * r̄r̄gp o quv q̄n̄q̄w̄c n̄k̄ c o ² euḡu0 | t̄gl̄ v̄go . j̄qi {
 l̄³ u | . n̄gf̄ x̄gugo 0-

P go ² tv̄ḡwo . fg c | c | ² t | ² u h̄j̄i qw̄ gn̄ j̄qi { t̄quu | u | ^a p/
 f² n̄m̄ent̄q̄j̄ cp̄ h̄gr̄i o 0

ô V̄cn̄et̄q̄f̄ l̄ k̄pp̄gp. c̄n̄i t̄nk̄ x̄ci { . ô n̄k̄^a n̄² m̄ h̄gn̄ ô o gtv
 t̄³ / ⁴ v̄/ p̄ j̄ c̄r̄i h̄k̄ x̄ci { #

C̄m̄em̄ c̄ul̄p̄v̄ j̄cn̄j̄ c̄w̄c c r̄w̄un̄en̄en̄eu euḡw̄gp² u² v̄ x̄ci {
 r̄i v̄c̄ ku u³ / ² v̄j̄ | u | q̄n̄q̄w̄c̄d̄d u | go ḡk̄x̄gn̄ c h̄gi { x̄gt̄ x̄k̄n̄q̄i »

eu^{3/4}x²v o gtv ug ul ». ug dgu²f. o gi hqtf wv u o gpgm[~]Av dql »/
vqp. v[~]Av[~]p^a vrg c x^{3/4}i { dg. cj qi { eucmc n[~]dckd[~]v[~]n⁰

O quv x²i tg j q | ^an[~]vj cwco c nku rcf qp gi²u | n[~]p { gn/
o gup c ek o rj ^au[~]j q | 0 O^at/o^at tgpfdgl^{3/4}vgo xrg.
o kf p »xcvq. gj cterf^anv p { gn[~]ti gu²n ng | fgw c | ^avgnpggu
j^a | r c[~]p mngt[~]v² p gmc lvc o gi p { [~]tpk⁰

Cu[~]l qp { k twj^am uwj qi^au^a pcm kpi gtn pgu[~]g j u. [~]Av[~]v
ul gm v n[~]vul qw v[~]o cu[~]l vpk⁰ O k[~]vj c gi { ul gtuo kpf tgl gfc/
krcv quqpv xqpc nk c p { kqw clv[~]p c nku ngtvd n²u ul²v
vgtl gfp g c r[~]xgi dgp. ^{3/4}ul gn[~]xgt | xg c r^at^a nmcn o gn[~]gnv
c j cto cvq. dwlc h[~]Agm rj gpgm n[~]0 Xcp xcrc o k o^a o qt[~]v[~].
ul go r[~]xrcu[~] v[~] ²f gu²i c | ²1 m[~]o j c npi { qu[~]aⁱ dcp. vqo rc
eugpf² dgp⁰ Qn[~]cp pgu[~]vrgp l^{3/4}p xcrc o k o k[~]vj c gi { ^atp²m
j ^a »f²m u^{3/4}v x^aul pqp gi { gprgvugp. tko kmwcp. pgu[~]/
vrgp[~]Av⁰

P go n[~]vqo. fg uglvgo v⁰ M[~]4xqpcrcv pgo d[~]flc gnk/
nqpk c j qo^a n[~]0 l^{3/4}p. l^{3/4}p⁰ Xcrc o k d d^al. ki² | gv rgn[~]4⁰ f m[~]o /
pcm vctqo. o [~]i gi { ul gttg h[~]rr gl ugi o k[~]fp gp x²tgo < gi {
o gngi. krcvq p k v[~]ugv² | gm j q | ^ao ul qtqucp ulo wpk u
n[~]v r vj c net^a vqi lc c p { cnc[~]o cv⁰ Cteqo cv o gi eukm[~]pf q | c
hqt[~] » rj gn[~]vg. h[~]Argo gvgi { ul gn[~]ff. ^am cvci j cpi <

ô Ctg { qw yckkpi hqt c npi v[~]o gA *T²i »v x^atc/
nq | qn[~]Av

U²f [~]Av[~]hqi qvgn²u | cxt⁰

ô Uclp^a m[~]o. i c[~]o d[~]o. ô h[~]rgn[~]go o ci { ctwn ô j qi {
pgo ²p xci { qmc h[~]rdgxc[~]u go dgt⁰

*Fg o²i lqddcp uclp^a m[~]o. j c t^ai qpf qm[~]m j qi { gl v
o gi o qpf v[~]o pgn[~]0 J kul gp pgo qnxgvrgp[~]Av n[~]m c | . j qi { c |
go dgtpgmh[~]rdgxc[~]n[~]kngi { gpgn[~]0

C j cpi qo cv j cnxc. o k[~]vj c j qi { h[~]rgtd[~]dp c o gi tkul /
vqw o cf^at. ²rgu uln[~]q[~]u[~]cn v[~]itqw gn o gm rgo ²u h[~]wqw/
h[~]wqw n[~]4[~]Av[~]gn[~]Av cddcp c | k^ap { dcp. co gttg c | ko²pv c
h[~]th[~]0 * ul v[~]4[~]p xgl gv[~]c c ul g[~]gm gungv[~]0- P²j^ap { r[~]r²u w[~]p
c | qpdc[~] gm[~] | fgw n[~]eci pk co k qn[~]cp xq[~]m o k[~]vj c o knqt c
rj h[~]pqo cdd [~]Av[~]gi eugpi 0 C m[~]vc ul qnp { ^aeun[~]m tq[~]qi v[~]m
ul kul gi v[~]m tclv. co k[~]vj c n[~] dnt^a kj q | xgt f v[~]m r g[~]ki eucm
h[~]wqw²u n[~]eci qw⁰

U[~]d^a r^a pp { ^a o g[~]gf xg o c[~]cf v[~]o qw j gn[~] (dgp. ciki d[~]flxc
tgpfdgul g[~]fpk i qpf q[~]rcv[~]o cv⁰ C j cto cf km xci { pgi { g[~]fk m
v[~] xctt[~] n xcrc o k cpi qn xgul gn[~]g²u i { [~]Av[~] nk= cpp { kv rj gv[~]v
nk[~]gppk j qi { gn[~] | cdcf w[~]v ^{3/4}nt^{3/4}ngv xci { o^a u^a m[~]rcv[~]ngv n[~]gti gv
pgn[~]0 Co k[~]vj g | greugpf gu[~]Av. h[~]wtw[~] { cu[~] » j cpi | qw o gu[~]l g c o g/
g

| nt n npxcnev ngi gngv uwj cpe hÀlj cvlc. o clf c [cpng/
rqqf ng kuo gtvgu fcmco c ul^amv. ul^amv c ngxgi dgp. o guu| kt n'
l¾j gvgw. o gtv cpp{ktc ngi {gpi Æm. gm qu>fqw kf^aki. o kpv c
ul Æp{qi | ¾pi²u0

Fgj^av ugtgi gmpgm wtc. j qn xci {qm²pA Ok o kpf gp v¾/
v²plm xrgo # ¶o g o gi kpv gi { n¶²tvv0 G| c mÆ²p¾u p ul g/
o²n0 O kn{gp k| » xqmv c ngj gngvg²u j qi { uko wv j q| |^ao #00
Dqj »u^ai o kpf gl. f | ulpgm l^av²nc. ^am qmpcm ul gu²n²gu vctnc/
u^ai c0 J kul gp j qi {cp lwj cwco xqpc o^aun^rr. o kpv^am qo/
dcp. c Dqf |^ak wco n^rv rglm^la p w| uqppc »c Cpi nk^adcA
Ogtv c| dk qp{qu. j qi { c| ¶²n n^rguu²i go o quvck^ancr qv
ul gkpv xcico k cpi qn xci { um>v hcnwdep xci {qm vñ^rp xcic/
j qnI wui qy n¾²Æ0

O^aki ku euqf^anqo. j qi { o gi pgo tÆngo g n^rrvrgp/
u²i gm g euqf^an^rqu dgp{qo^auqm vgtj g cncw= fg dk qp{^atc
o^at o gi ng/f f¾v telco g ul^apcrcu m>t. o gtv co kpv pgo
wf^aco. j qn xci {qm ncuicpn^rpv gngngvgwgo c| v ku nk
xci {qm²u o k l^atcvdep xci {qm o k^a p o gi j ctucpv f²ip{wi cv
hgn nc xcf^aul vÆ²m²u c xcn>u^ai tc t^a| qwhgn

G| gt ¾f¾. pk j kul gp gl c|²p Dqf |^ako 0 M^r| grgo .
o gpp{ktg x^at. ul gr gi xg c o^apvj^awⁿ0

U gl | gn o kpvgi { c j gn | gv o ci curv^atc lwxc. o gi kp/
fwco c j^a| uqtqm n¾²v. j qi { xcrcj qn nkxk^ai ¶qw cdcrcqv
xci {²dtgpr^rx go dgtv vñ^rqm cnk ugi ¶u²i gv p{Ævj c0 Fg
o kpf gp r k^agp0 Euqf^an^rqu eugpf²u p{wi cmqo j qpqm. o²i
c j^a| km^am ku cnc^avcn0 O kpf³ul g gi { o ceun^axen vñ^rm| vco .
cnk »xcvqcp grp{Æw| nqf xc r^rngf gw c| Æqp. ul go gk
o kpv n^rv tvdkpi qn »eune l^rp{ngvgn0 Gi {/gi { dctqo d fÆv
gnxci {mw^ac xcmepvqwc dgl^atvwf xctqndcp0

C| xqmv²rr gp c dcl. j qi { c j^a| cm o kpf Æcm u gi {hqt/
o^am xqncm o kpf gplm gn^atxc r cñ pmen gn n nku ngtv. o k²n/
hqi xc c| cdcrcqm j q| pgo ngj gvgw l^rtpk j qi { xcrcnk^a hgn/
n¾²ugn0 U gtgpeu²tg gu go dg lwqw. j qi { c ul²nu j^a| p^an
vñ^rp dg wf^aqm o gppk c| wf xcttc. o gtv c| c dk qp{qu
r^ri {qvqup cmcm culpv p{kxc j ci {vc c ngt²uclwⁿ0

Pqu| c xku| cdcrci vco c ngi ul²nu r qtv^aj q| u o kpv j qi {
c hnj m gi { nleuk ul²vqu| rcf q| vcm kf n¾²dgp c pci { u¾²v
u²i o gi ul ÆmÆm. r^rvpk ngj gvgw c ngt²u x²i²p c o²tl¾²f/
lgn e¾²¾¾¾. c| | cn c v²dr^reun^axen co gn t n gi { i {wlc xk^a/
i^ap^an gn^rkcuj cwco c j gn | u²i pgx² < RO [qtn0 Gw n wi {cp
pgo ngwgo qmqucdd. fg c| c l¾²ngx²ugo ngi cñ dd dgx^am
j qi { c i l> o cf^atnæ p{kxc j ci {vc c ngt²uclwⁿ0

Gi 2u| nřp{gm gugg dgo gpvgo c| wf xctdc. j qn j^a tqo
m^ñř^řp^am» 2r^ñř^v hġ 2trgw0 C h 2r^ñř^v cđrcnř p rt>d^a nco
| 3/4 3/4 pk o ktg eucnj co ct o gi lgrgpv c| Āxgi o 3/4 3/4v gi { pci {
vqt| qo dqt| hġ l u p {gtu j cpi o qtqi vc dġn^ñř t n<

ô Y j cvku v j g o cwtg AY j q ku v j gtgA *O kdclAMkc| A+

ô P go wf 3/p nř tgo xcrc o ġn{ o^a u p { ġr ġgpA

ô Vwf qm »wn 2u o ci {ctw0 O kv cmetA ô kuo 2 vř
j ctci qucp0

ô Gi { nku u| gtgpeu² vġpu²i v^ř4v²pv c| Āxq. ugi ġu²i 2 v
nř tgo . l» go dgt0

ô C| xci {qm l» go dgt xci {qm ô u| »nv dct^a vř i qucd/
dcp0ô O kpf l^a tv l³ k³ 4n0

Mkux^a tvxc Ĥp{ i { Ānv c u| qd^a dcp. o clf o gi ġpv ġr j q/
o^a n{ quqf qw c| cđrcm lġř Āñ j qi { c Ĥp{ o^a t c r kxctdcp
xcp. c| v^ř p o gi eukřtf wv c mřeu c m^ñřu cl» dcp u nġř r ġv
i cv^a dcp. ġi dġp. ř o r^a ucn ġl² dġp c i c| f. c. gi { dqtqu^v u
cte Ā³ 4gi go dgt0

ô P q. o kc dclA

ġro qpf vco c| guggv. c vġpi ġn{ v^ř4²uv 2u j qi { gi {
p{ Āv» Ĥc nġmġpg. gi { nř⁴ 2n xci { nř pe u gi { nku ugi ġu²i .
gi { Āven o gi pġxġ| vgo o ci co cv. o gi o qpf vco j qxc xcñ
xci {qm 2u j qxc o gi { ġm o ktg ġi 2u| wf xctkucpp ku dgo w
vvc o ci^a v0

ô | p O křgt Mmveunc xci {qm 2u u| ġkuggp^a nġm tġp/
f ġmġ| 2² tġ. f ġ ġm^ř 4n³ 0 Vqd{ v c Ĥco cv ku. cnk Āi { ġu Ĥem
c| ġn{ ġp ġn l ġp 0 O clf o gi nř v c 3/p. ūt0

ô O ġn{ euqf^a r vqu. ô lġi { | go o gi ô j qi { 3/p cpi qmñ
dġu| 2 r0

ô C| ġi 2u| lqtmcpi qmñ dġu| 2 n vco 0

ô O křř ġ lqtmA

ô J^a vġ| c r wu| v. c j qno quvxci { v p n0

ô Kc|. ġi c|. qřxcuco c e³ 4 4 3/p 0 F ġ 2 r r ġp ġ| c o gi /
ġi j cvcvcp0

ô O kc| c o gi ġi j cvcvcp. ūtA

ô C|. j qi { o Ĥ tv dġu| 2 ncpi qmñA

O t0 Mmveunc o quqñ i qw<

ô O ġ tv l » ġ ġ ġ m ġ ġ n k o ġ ġ tv^a xcp u| qmxc0

ô J ġu| ġp 2 r r ġp c|. j qi { j qnu| qm c o gi A

ô Co ġ ġ nř dcp. ūt. o ġ tv o k co ġ ġ nř c m xci { v p m ūt0
C| c|. j qi { ġ ġ f ġ v ġ ġ ġ ġ ġ p { k t c o gi { ġ k » v r c t c u| v m x q p^a p m
ūt. o ġ tv p ġo v ġ to 2 u ġ v ġ p m ūt. c pci { |^a u 0 Co ġ ġ nř dcp ġi {
nku r 2 p| ġ eunř v u| ġ ġ ġ v ġ p n0 C Ĥ c v e r d d c m o^a t q w ku u| Ā ġ v ġ m

gl gm o^a t pgo wf pcm wwn ug0 P qj^a v Æi { xqrv c| . ukt. j qi {
o knqt o k j c| cl^{3/4}w Æpm kv c| ct^a peuk i t>h h^{3/4}f lgv r ctegn¹ | /
v¹ m^{3/4} u| gdgu² n Æpm u o gi x^a u^a tqm wpm c h^{3/4}f gn¹ n co gpp { kv
ngj gvgw. j^a | cnev² r¹ vgw Æpm² u c lqtm pgxgv cf wwm c r wu | /
v¹ pcm ukt0 C| »v kv xgu f Æpm c t^{3/4} i gn² u j^a v eucm o kpf g/
p Æw l> c xk¹ i qp. fg c ntwo r rk eucm rgi lqdd ¶ qvj qp0 P q
f g o gi { gmwco . c Vqd { vlgm^{3/4} ngpkc| ku³ m>dc0

Gkpf wx^a p. r¹ o r^a lc lqddcp o gi xk¹ i ¶ qw² u j k tvgrp
2 u| tngxwg. j qi { co kg c dcmg| go gv v¹ o cu| vqo . r wunc² u
pgo dqv0 N¹ wco rgi qw c u| go^{3/4} f^{3/4} ngk^{3/4} u| gt^a pf w¹ u^a p² u
c ucl^a u^a i qu vgnkpv² p. j qi { i { cp Æv hqi qw0 C mcm culpv
cttc i qpf qm. pgo^a m¹ g x^a llqp tcdn>xcn u| go dgp. cnk txcu| vn
nkeucm i cdc c o gl tg u c| crw ngudgp^a m> v¹ tuck n¹ p { gm g/
ugp. cni t² pgm u| »xcn nktcdq¹ a mc j^a |^a v Æ

Gi { u| gttg o gi^a m² u tgnfv. vqo r c j cpi qp n¹ t² <

ô F g wco . j qi { l^{3/4} w^{3/4} p dg c j^a | co dcA

ô C ngt¹ uclw p = nk xqrv { kxc0

ô C| pgo ki c| ô hqt v { cpv h^{3/4}0 ô | p o ci co tgvu| gn
vgo dg guv0

H^{3/4} hqi wco . j qi { i { cp Æc kpf qm u u o² tngi gn² p c| gugv
ngi gu n^{3/4} xgvng| o² p { gngv. rgi lqddpcm x² ngo c vku| v ki c| u^a i
Æ^a p o c tcf p¹0

ô Gi { p u| go² n { l^{3/4} wnk c| clw p u p { kxc j ci { v0

ô Gi { p u| go² n { A C|² p j^a | co d>n Æ C| ngj gvgv gp0

O knqt xqrv c| A

ô Gi { h¹ n>tc gn w0

ô Dk¹ vqu^{3/4} cdcpA

ô ©nv o gmgwgo 0 .. uul geugt² nv c| | cn c o^a ukm h² thxcn
cnk x^a tv u cnk² p cnetcvqo qp n¹ k Æn grtku| vqwo xqrv
ppcp0

O t0 Mmwneunc hgrt¹ f ¶ qw. o kvv gi { o gi ugd| gw xcf /
^a mcv0

ô Lcl c hco . lcl c x o #

Gn¹ r cf v² u c u| go gkxcf wnhqtqi vcm Æt gi gkn dgp0

ô Kvgp rgi { gp pgnk ki cm cu ô j^{3/4} v^{3/4} v^{3/4}0 ô Cn¹ to gn { km
xqn0

U gl | gn gi {² ngu dcn¹ v ncr qw hgn o gn { c vtp^a ej q| xqrv
v¹ o cu| vxc0

ô Gn ngt¹ go c h^{3/4} f c n¹ ku² u o gi^{3/4} v^{3/4} . j c gl gt² rvg
xqrv k¹0

U tqj cppk n¹ u| Æv nk c ngt¹ uclw p. fg c mnt¹ rgi c¹ dd
¶ { i qpf qm o + gu² dg lwqw. j qi { j^a v j c gl ku eucm hkv.

texcu| hqi^a u v rgo . gn^a xqf|cpk v qwj qpt>n u c| xkncpv
gul² dg. j qi { gi { u| gt dd o gi p² | pk c neo t^a dcp. cj qn c eucif f
hcvn p vi lek j^a ncm j c ki c| cv u| »nco /g. j k^a p{| kn|g xc/
neo gn{ km² u nkc| A

Gn wgo j cdq|^a upcm n^a w| qw gl . j q| |^a r r vgo . n^a w^a p.
j qi { tqul n^a gvn| o² p { gk n^a j gvp gm n^a r^a ugo pgm gm| f vgo
c n^a j gi . f ÀncteÀ go dgtv euk|cpk o gi hqi vco c n^a |² v ku
co gn{ dgp c dcn^a vctvqwc0

ô Wi { cp pg qnqunqf l² m o kngt Mwnweunc0 J^a v j c eucm
^a tvvwp dgu|² ri g² v xqn co c p² u l² thk n^a r^a 3/40 I qpf qrlc
o gi . j qi { o klu xqnwpmhcvnq0

Mwnweunc f w^a p n^a p^a qwc n^a |² v c n^a | go d r0

ô O gplgp c r qnqndc kppgp# O kv cxcvq| km c fqri qo dc0
| p i gvrvo cp xci { qmu wf qo . o kc n^a r^a gu² i go 0

H rno gvu xqnx co kv c| qrf civ^a m» o gn^a n^a r^a ãngv gl
tqj cpv. Ài { l^a tv c o gng. o kv gi { h^a v». hgn^a r v g c| clv»
pci { tqdcllc² u gn v p hglu|² l² xgn n^a o r^a l^a xci0

C| qp i qpf qm| vco . j qi { vci^a p lqdd xqpc gro gpm^a pk
kppgp. o gtv kw o c Ài { n^a j gv j c n^a v² p km² u² r r gp² p o kv
vco . o k^a p x^a tvvwpn nk^a r gw c neo t^a d>n gi² u| p { w| qf /
vcp. u vo quq| qi xc uc hglu|² v qf c^a o cu|^a c| clv» j q| 0

ô .. p ki c| cv u| »n. ô o qpf v xk^a o cp ô fg plpeugp
j^a r Kngppgm ugo o k dcl0 Qf cxk^a i qwco c hgl² tp² r glo tg.
j^a v o kpf c n^a v o gp { geung² f guf gf gp cnu| km o kv c vgl. c
o gp { go ku. c n^a p { qo ku0 C x o o quv plpeu kvj qp. Dgu| v/
e² tg o gpv dkn^a v xgppk0 Gngpdgp c nku Dgw{. c j clcf qp
n^a p { qo l² u| ng ãgu0 quqpv nk xcv o k nempf tc0 P q ku| gp.
c| gi² u| gp o^a u0 J cff u| »tcnq| |² mc nku htwunc ô vgw j q| |^a
u| gtgvvgn^a gu j cpi qp0 ô O qpf j cvqo . vco . pci { qp o gi /
kglu| vgw00² i o quvku xgt c xgtgl^a v n0

O^a t gl v o gi kv pgo d^a vco gmgpxg² u p² m^a n o gi /
^a ncpk0

ô Vgtkpi gw² v. 3/4 Ài { n^a w| km pci { qdd j k^a pcm xgu| k
j c c o gp { geung t^a nkc j^a o d>n o kvugo j c c n^a p { 0

ô Vgto² u| gvgup. uk0 O gtv c o gp { geung c| vtc pgx² v xk/
ugrk u c| cuu| qp { vku| vgu² i g c p² xpgmdgeu ãngv. c dgeu ãngv r g/
fki xci { qp0 C dgeu ãngv pgo v² hc. uk0 F g c n^a p { ugnk^a 0 P go
x² v nknc »u^a i^a xcn ugnk^a pgn0 C o gp { geung o^a t j^a o dcp xcp.
3/4 go n^a vgw j^a o pcm. pgo u| cdcf cdd>n nk^a Ài pk. c n^a p {
c| qp dcp o² i plpeu j^a o dcp. vj^a v nk ug t^a j cv qppcp. cj qn
plpeu0 J c n^a p { vgu| k c| v o qpf lwm² rk xk^a i^a v. j c o gp { geung
vgu| k c| v o qpf lwm x² v n^a | kn0 O clf j c c Dgw{ cuu| qp { n^a | .

pgnk ku j pgm ngm ngpplg c| wt^a j q| 0 C| c dgeu^ãrgv f qri c0 Fg j qi { o kveukp^a n^r p { nqt^a dcp. ctte ul go gvj wp { c| qnqu go dgt0 O kpf gp n» eukm» xqiv xcxo knqt u wi t^a n/dwi t^a n. vktudcp ul crcf i^a n/o ¶ dg pgo hji v^o n0

O t0 Mwmweune o quv o^a t h^ãti g rgw. o kpv c h^ãtl eucm^l j co ct hgm^ã4v^ãvg Vqd { v. gi { j quu^l Æ h^{em}v. cnk gi { n^{le}ukv dlegi gw c lqdd n^r d^a tc. c| v^o p^ã4u^l gngtgug c ul Æm^ã2 i gu f qri q/ n^{ev}. ul gtu^l a o qn^{ev}. 2 u g^l kpf w^{em} cddc c| k^a p { dc. cj qppcp c m^ãtu^l » vj cm^l qwco xqm0

—v^ã4 dgp uqnev n^r tf gl un^ã4 vgo RO Lqtm n^{em} k^a » n c| qm^l pcm dgu 2 rgv^t n xcp/g r rclwm vcp[¶] lwm lgi { | l^ãn0 O t0 Mwmweune gro gu^ã ng. j qi { o kpf gl o gi xcp. fg gi { ul go 2 n^l / dgp0 Gi { ch^ã rg gn^ã4v w^l » u go dgtv vctepcm cnk xqnc n^r rrgp^a m^{ev} qtxqu. gl vcp[¶] l^c c i { gtgn^{ngv} i { » i { ¶ l^c c| a m^c / vqnev 2 u go dgtgn^v. gl ¶ l^c c| cf^a u/x² vgrk qm^o a p { qnev 2 u o kpf gpl^ã rg dgcf x^a p { qnev c j c^w u^a i j q|. xcu^a tper r g^l ki rt² / f kn^l n fg pgo c vgo r njo dcp. o gtv vgo r njo w^m p^{keu}. j cpgo c pci { hc crw^{*} cj qn c n^r i { qw xqn⁺. fg pgo c d^{kl} n^ã d » n xgw v^o ti { cnt » r0 C v^o a n^{ev} o ci c c n^{em} qu^a i cf lc hgn pgm0 O quv xcu^a tper r² n^a v^m c| xqiv c vgzwu. o kxgn j qi { n^ã4 grgi c| Æ qpeq^l a u. o km c| qm c o » f qm co gn^l gmgn c dguqtq^l v^o u c n^{em} n^{kl} Æ j cypc c ul gi 2 p { go dgtA

C p^g xgl gvu pci { l^ã t » n gux² p ul ». o t0 Mwmweune gn tg/ m^ã r x² p Vqd { v. d^{kl} c^{ro} cu ngf² n^l gu^ã 2 i i gn fg gi { ul gtuo kpf 2 n^r pm² tf g^m f² ugn w^l cnu^l » f qw co c l^ã thk hgn n cnk c ul gpv O^a tk o 2 eug^ã 2 vgrn^{qwc} 2 u cnk qw Dgw^l tg x^a t^o

ô Rgtul g. grn^{qwc} c o 2 eugv[#] J qi { ku pg[#] G^l gmpgm c h^{em} » p^{cm} c j qo^a n^l ngn⁰ O k^l gp xqiv c n^{kp} | 2 ugA

ô P go ki gp n^r wco 0 O ci cu xqiv c pp { k^{kl} qp { qu0

ô J o 0 C h^{em} dcp uqm o ci cu go dgt xcp0 P go hⁱ { grv o gi xcxo kq^l cv co kp² o k^v o r qp^v vp { Æ vpcA

ô Fg xgwo 2 ul tg xcxo k0

ô P go n^ã4 3/4 j gvp² xgrgo A

ô l ul tgxgwo . j qi { c h^ã r^{kl} dgp n^{et} kn^l vx^{lgn}0

ô Cj^a # ô f^{3/4} o 3/4 v o t0 Mwmweune. o kpvj c t^a l^{3/4} v xqipc. c| v^o p uqⁿ ki eu » x^a n^c c h^{gl} 2 v0

ô P q n^o . pq n^o # J o 0 M^ã 4^l 3/4 3/4 . ul0

Gn^ã4 dgp h^l n^a uv d^ã qw c v^ã 4 m c Ngj gn m^ã v^l g ug j ct/ u^a p { cddcp 2 u gi { tg n^ã4 grgdd. n^ã4 grgdd0 Gt u ul 2 n ngtgn^l gw c Drcp^{nc} p^g x g^l f hgn n² u n^l f v^g c| 2 i d^{qnt} » n n^u 3/4 3/4 i gpk c h^{gm} v^u 2 i g0

O quv o^a t d^{kl} v^{ucp} j crcf wpm 2 u gi { ngw tg qw xqiv wpm

c ul gnʔt o gngw0 Dqf|ck wco nercr^la v ngpi gwg nwtlcpvqc
o^at l» o guu|k r< i Kv xci {wpm gttg xci {wpmfē C|²tv
jcul p^anc c hlgf gm k v̄/ddguv. o gtv c mxcnj q| ul^ao ¶vqc
o ci^aw0

C nʔv Mmwēune ugt²p{gp j q| |^an^avqw c v̄gpi gn| p²o k'
pgo j gn|tg^an[¶]v^a j q|. o kcrw Dqf|ck c n^or^auv vctvqc
pgnk^m u c mxcēunⁱm x[¶]i cp tqr qi v^wm c |cdq0 | ptclvco ku
nk^{3/4}v o^at o quv c|² j u²i u o qj »p p{Anco c vctku|p{c w^ap.
fg pgo v^rf nco ugo o kv ugo qw. ugo c mwēudcp0 Dqf|^ak
wco ul go g. co kpv c n^or c h²p{²p²n² u|tgxgwo. pci {qp
ngtgu|vdg^amv u xli {qtqi xc gumAf^{3/4} 3/4v. o kpi {^atv kv x^an²m
ul vtqnmⁱ. jc pgo ki c|. j qi { c o^apvj c gxgw² u kxqw o gi
o kpf gpvô j q| |^a pgo p{An0

Gi { nku h²n^ta ki vctvqw. o ¶i Mmwēunⁱ2 m Àtc n^rrgu²
vgw²ml^ato x[¶]Apngvⁿ3/4 rngf²uke²mtc0

ô Tgpf dgp xcp. ô o qpf c c| kf ugdd Mmwēune u
o gi o ci {ct^a|v. o gttg ngm o gpp[¶]pm j qi { o gi kpv nklwuwpm
c| qtu^ai Àtc0

ô I qpf qrlc. j qi { gnctv c v̄gpi gn|. o ¶i Rqmqkpc
2t[¶]pmA^aQwrcnqwRcm|v{ tpci {0-

ô J c c v̄gpi gt gtgu|vgp². wco. gm gj gvp²pgm gl gp
cm^t gi²ul gp Ucp/Hcpeku»ki ô p{wi v^wqw o gi cpi qmⁿ c|
hlcddkmMmwēune0

ô Vqd{ eucm cpi qmⁿ dgu²nô lgi { |²o gi c| 3/4gi ô fg
o quv o^at »wn ng|f ì r qxgf^a rpkē. o gtv t^ar ctcpeuqnc <
ì Vqd{ hco. lgi {gl f o gi o ci c f pcm j qi { o ci {ct go dgtgm
xci {wpm xci { o k c ul^{3/4}l. j^av rgi c n^ddd »wn vcpwl o gi Œ
Fgo^at o gi {Āpmku. uk0

ô Pq j^av. c| Kvgp^a r f lc o gi 3/4p^{3/4}ngvô o qpf^ao. c
ng| go gv Mmwēune hgr² p{Àwco ô Kc|^ap pci { ul ¶kgu²i gv
vgwg^m xgrgo. uqj cug hqi qo g^rngl vgp^k 2u jc gi {ul gt ctte
xgv fpgm c hcrwo hgr². gn pg hngl vugpgm gpi go o gi r[¶]v/
i cypk0 Kgp. ki gp uclp^amqo. j qi { gi { m^tv{ dqttn o gi pgo
n[¶]p^a rj cvqo. fg c| c|^a v[¶]q| qwn[¶]l²tvx00

Ot0 Mmwēune xku|cvqnc c ng| go gv u gi { eki ctgw^av
n^rtvc h²À»n ctte t^ai { Àvqw²u ¶i { ul »n<

ô Pci {qp n^{3/4}l 3/4p^{3/4} c ul ¶kgo o gi j ¶k^auv uk. fg ul gtg/
vgo. j qi { c ul^ao r[¶]m c ì Fgdkē²u c ì Etgf kē o kpf gpm^t
tgpf dgp rgi {gpgn0 C| o^at pgn^o c v̄to²ul vgo 0 Vko g ku
o qpg{0 C| kf r²p|. uk u c o wpc kf² u h²tcf^ai 0 C|²tv
vgj^a vpgo fg ul ¶kgo rgu² 3/4 nkgr²i ¶vpkA

ô O kxgnctvq| qo A

Mmwewunc p²| gi gwg c u| gngtgv. o clf o gi vgnkpgwg c|
 »t^a l^a v. c| v² p u^a o qpkf¹ w| qw. x² i tg u^a tc| j cpi qp o qpf c<

ô C| gi² u| gr^a t^a u. cp{ci² u o wpc³ u| gupg j^a tqo
 fqm¹ t² u j¹ u| egpv xci {ku c o k r² p| pntg^a u^a o {x c v¹ gp/
 j cvnqtqpc0

ô Uqm ô lgi { | go o gi o gi ngr gwg² u pgo o kpf gp
 dquu¹ u^a i p² m¹ u0

ô I qpf qrlc o gi ukt. j qi {² lu| cm¹ pcm² xcf lc xcp
 u xgi {g c| v. j qi { gnu^a m qo d>n | 3i gw gw hgr0 C o^a uqf km
^a m¹ o gi { gi² u| fqm¹ ttcn ngppg qre>dd0 P go uqm gl wtco .
 dgeu¹ r¹ gwgo tg o qpf qo . pgo uqm² u gddgp dgppg xcp c i {gtv{c
^a tc ku. co kc n¹ o r^a udcg gr¹ i gw0

Uqm xci { pgo uqm o kv vgi gwgo xqrpc gi {gdgv. o kpv
 gn ngtgupk c | ugdgnd n c v¹ gpj cv nqtq^a v² u^a v{ u¹ vcpk
 Mmwewun¹ pcm fg c r² p| | gn vgrv ngl go gvku xkuu| cvqnc0

ô O² i o kpf² i pgo xci { wpm tgpfdgp. ukt0 O gtv gddgp
 eucm c| xcp. co k c|² p n¹ x gwgr¹ ugo² p c| qpdcp u¹ n¹ dgp
 qn{cp j cu| pqu n¹ r¹ uv vgw gn wgo ctt>n c dk qp{qu l¹ thk>n
 co kv² p n¹ r¹ u¹ dgr¹ n gi { fqm¹ t² u pgi {xgp egpv¹ g dgeu¹ r¹ m
 ngj gv j qi { v¹ d dgv² t. ngj gv n¹ x gw gddgv. fg² p gpp{kg xgu| go .
 o k² r¹ qi xc gl rgu^a o {kpf>0 O ctef gu| gtlpv gi { fqm¹ t² u
 p{qrexcp egpv. c| c| nk¹ gpe nqtqpc0

O quv o^a t^a xgwgc c nk¹ gpe nqtq^a v² u dct^a u^a i qucp o gi /
 t^a | xc c ngl go gv0

ô Cmtki j v. ukt0

ô p gi { o gi vguv¹ u¹ n¹ u¹ r¹ gwgo dgt r¹ gw Co gtn¹ dcp0
 O kpf kn{ gpgm^a

ô C lqtnk p² r o kpf kn{ gp. ukt0 l³ 4l³ p gn xkuu| chgr¹. p² | /
 | gp o gi dgpp¹ p¹ ngvukt0

ô P go u^a pf² nu| pcm¹ v¹ d² Co gtn¹ dc xkuu| co gppk^a

ô P go i qpf qrp^a o . ô u| »n. o kn¹ dgp u| gtu^a o ckv
³ u| gu| gf v² u Vqd{ pcm cf v^a v. j qi { xki {g0 ô C w¹ n h¹ i .
 pgo rgu| /g gi { kn¹ p¹ ngm o^a uk¹ w¹ p¹ pcm o gi kpv u| u¹ m² i g gi {
 nku r² p| tg0 Gi {² dk^a pvgrgi gp o gppgmnk u¹ u¹ tclqn0

ô Euqf^a rvqu. j qi { pgo tlc¹ pcm xkuu| c c u| 3/4 p{ u¹ w¹ r0

O t0 Mmwewunc x^a mev xqpv² u^a v¹ xq| »dcp xkuu| chqtf wxc
 o qpf c pci { r¹ ngp{ wi cnqo o cr0

ô J lc. co k r² p| v c pci { wcm nku| »vcm c m¹ u¹ r¹ f tg.
 u^a | o gi u^a |² xg. c| v o quv pgn¹ p¹ m u| gi² p{ r ctcu| vmpcm
 ngmcr t>f qpn¹ pvxkuu| cj qtf qi cvpk0 I qpf D{ g#

O² i hgrmpk cnetvco . xcno k ngugt i qpf qrvqo v¹ o cf v.
 fg o^a t cmmqt gip{ gng crn¹ v c n¹ r¹ u² c u³ r² u² i 0

Tf MQUKXKVVQT *UKRWNU 0-

n 82ô 3; 45

C\ CNG\ TGF GU. C\ .. P M P VGU. O GI C RCTCU\ V

Vkncu\ v» 2 lu\ cnî p mËpp ÆwËpm gi { nî4 Æk nî x2 j a |
vgttcu\ a p u o knî4 dgp eu3/4 pf guggp dgu\ 2 ni gwËpm hi { gnËm c
xkncu qu ¶knî o r a m nî4 Æn t3/4 f3/4 . nîr qi ». | Æo o 3/4 dqi a t/
ugtgi gv0

Vqo rc tqdellen fq d/ 2 u vqo dkcu\ » p2 mËn gi { | a u\ n\ /
crl denc j crcf v ctte0 Eucm o quv xqpwncm dg c i { cnqtrev » n
rqtqucm r ku\ nqucm lf tcf vcm xqncn0 V\ /vk gpngwgp u a pv\ /
vqvcn xcrcu gpp { k o gi gtp { gf xg j crcf v u k ki { r knepv uqnev
xgvwgm c o k cu\ vncpntc. j qn o ci cu r qj ctencp j edqu
u a ti c u3/4 a m0

Gl c p2 o c. greuki a | qw go dgtv3/4 gi c dgu\ 2 ni gv uv a wg/
tngc c nevpc2 rgtg u gi { Hvcn ¶ » v tuwpm cnk vxcn { o 2 i c
nxcu\ 2 tgm wplqto kf v xkugng. gi { xkf a o v3/4 v pgwgn f g ¶
vgwhndgpp Æpngv0

Vvc xkf2 nî p xqnwpm j cfi { cnqtrev qp u c | ku\ qp { Æ
o grgi dgp pcr qnî pv v\ /vk gpnî v » t a v v3/4 n3/4 wËpm p { gtgi dgp.
Ærf3/4 xg c | gngpu2 i gv xci { Ærf3/4 vwxg c | gngpu2 i v r0 Tqj cp/
wpm v Æunî4 /dqntqp a v. d3/4 d3/4 ngwËm a i { Æpnev nî vj c vrcp
gngpu2 i gu j cf qu\ nîr qm k a p { a dc u x2 i tg dgnx a tv n | q\ w m
o ci vncvxcrcu khcndc u ki { gng\ v Æpmr kj gppk0

P go 2 rrgp nnggo gu. fg grî i u\ » tcnq\ v v
hqi rncq\ a u0

Gi { pcr qp c | crgl tgf gu o gnî tgp f gngwgo cf lw3 pupcn0
Gl cpp { kdc p l ». j qi { nî u d dgp ngm Ætcnngpk o kv c rgi 2 p /
u2 i pgn0 Xcncu k pci { kvgnki gpek pgo ngm j q | a . o gtv
gi { 2 d f qn c ukpeu c | cf lw3 pupcm o kv hqi pk c r ctcpcupnc
nxa v j c cpcpmgu\ 2 dg lwrngu\ a mpkt » r0

Gi { nqtc tgi i gn kpf wmwpm gn c hcnvd>n c o^a t gn dd vx/c/
xqpwv v²tg|tgf w³p< c| crg|tgf gu. o gi²p0 U| » p²m²ñ
nqxc i qvgn wgo .²p r gf ki ku| vgu²i gu v³xqrdcp n³kgwgo 0

Gi {^atqm gn w o gi^am0 C|^atnqp v²ñ i {³p{³4 tq| u/
v³ dñ mvg²ñngmgi0

ô O qpf lc eucm ³pn³pvgu. ô u| »nv j q| |^ao ô luo gtk
g| vc xk²ngvA

ô P go . crg|tgf gu ã0

ô X^a i lwpm^a v g| gp c tq| uqp. c| v j ku| go . j co ct^a dd
w»k²tl²ñnc| g|tgf gv0

ô K gpk. crg|tgf gu ã0

G| gn^a wi tcwv c|^atnqv²u dngi^a | qnwpm c i c| f ci
tq| u³ dñ dc0

Crki j cmf wpm ³4xgp r²uv gi { »tk²uk r ctcu| v go dgt
dwmepv h²ñ gn w²pn0 Ngi gvgw gi { ³4gu0 P cr »n dctp²qvw.
²tvgn gu cte^at>n d^avqtu²i uwi^at|qv0 Co kpv hwtm>u dqv^av
o ci cutc go gng²u dqt²l²u|^a l² ã kpi g c x^a n²tc j wñw= n²v
qn| j cvm cu net ngw n²v cw^x. j qi { g|tgf ãpm d^ato gñ
³pn³pvgu gñqi cf j cw xqpc0

C eu u|. o gtv c| ngj gvgw. n²tqo nqf qw. o kpv c l²i gu u
i qtqo dc xqñ. o kpv c r qnt>e0 | p^a n²qwo c| Kvgpv. j qi {
c| crg|tgf gu gi { j cpi qv ugo wf o ci {ctwn m²pdgp eu ã{c
netf ch²t ngt gngf j gvgwxqpc0

ô Vcnetqf lcpem xku| c. ctte. co gtt n l³4vgn# ô qtf²
vqc| »tk²u0

ô O kvnet g| c hcm>Aô u| »nv c| crg|tgf gu0

ô J qi { hqtf wlvpmxku| c. crg|tgf gu ã0

ô O k²tvA

ô O gtvpgo gpi gf k³4u| gi^a | qpkc tq| uq0

ô O kA ô nk² nqw c| crg|tgf gu. u c nqxi n» quvqc w³p
p{ ã0

Gn²4 dgp c eu u| qw^a nv c n» qtte gn w u o kpf gppgm
gn qpf qw dgp ãpnv0 J c l>n go r²mu| go . c j^a | k²ncvqm n²4 ã
c mw^av²u c f ku| p>v go n²gwg00 c| w>ddk^a ncvp^an gi {/
u| gttg h³4f gt ãv c| ctec. ngo² p{ gp c| crg|tgf gu u| go g n²4²
p² | gwu² { nk² nqwt^a p²o gv ã<

ô Ux^a lp#

C| crg|tgf gu gn³4³4³4v c f ãj v n evtwvñncvc c nq^av
c| v³ p t^ao wcvw c r ctcu| tc²u ugvqtk j cpi qp qtf²qvc<

ô .. pn³pvgu vct>| vcuc ng c| qppen gl v c i c| go dgtv
Mñ² tlg v²ñ² pvc hcnvd² u euwneuc ng# O gi²tvwA

ô K gpk. crg|tgf gu ã0

O gi ²tvwgo /gA J qi {pg ²tvwgo xqpc o gi # C rctcpeu gi ²u| gp xk^fi i qu xqnv \emptyset ²u xk^fi i qu xqnv c| ku. j qi { x²i tg ngm j clvcpl \emptyset 0 0 C|| cn n⁴4²ndgn²n⁴ v⁴ dcp xqnc^o. j qi { c f² 3/4^u eu u| pgm xcrc^o k v⁴ qn{cp ngi ²p{. o kv ²p. c h²ihqi ^atc ku ngx²u \emptyset Fg o qpf j cvqo . pci {qp n⁴k^apeuk xqnc^o t^a<j qi {cp hqi qo c rctcpeuqv^{x2}i tgi clvcpl \emptyset

ô Gn tg#

Ngwi tqwco c n²t>n u qf c^fr vgo c xcf^amv gr²0 C| v⁴p n²dwlj gi {tg ^ai cum^fvco . co kxgn gr²tvgo c| v. j qi { gr²tvgo c pgi {gf km n²ldkⁱ qo dl^av \emptyset U gmnqt r qm⁴rk 3/4^{ngvo} v⁴o cf v \emptyset Vqtnqo u| cm^fv⁴d>n c ngi o ²ti gugdd cne²gpwuucn gm⁴l f vgo qtf⁴cpk<

ô D^aeuk kf g xki {^a|| qp. j qi { j⁴k¹a mo ci ^avA

ô Hkrgr L^apqu \emptyset

ô Kvrncnkc h²wdcpA

ô Qw \emptyset

ô Gu²tg cfqm o ci ^apcm 3/4^{rgpi} v. fg j ci {lc o ci ^av dgn⁴tv²vpk \emptyset \emptyset

ô v r gpi ²tv pgo vgu| go \emptyset 0 0 j ku| c| qnq| qw n²t ku pci {qdd \emptyset

ô Cfqm o ci ^apcm ô qtf⁴qwco vx^add ô v⁴gp^{3/4}rgpi v \emptyset * u c| 3/4^{m²o}gv hgp{gi gv ngi t^a| vco c| qtte crw. j cff n²uuc c| crg| tgf gu. j qi {cp vtqtqk^amqo \emptyset -

ô C| o^at o^au. ô hgnrv gi ²u| gp o gi u| gr⁴f² 3/4^{ng c eu u|}. ô v⁴gp^{3/4}rgpi ²tv u|⁴kgup o gi vgu| go 0 I {gt²pm 3/4^{pn²p/}vgu \emptyset

ô Okvdgu²nAô n²tf² c| crg| tgf gu \emptyset

D²u| n²p u| cnw^anc vgn⁴pvwgo h²nc| crg| tgf gutg \emptyset

ô T^akgu| vgwgo gi { n²euk c h²em²tc. crg| tgf gu \emptyset . u gi ²u| \emptyset ppgr kgup d²eu^apcvqn²t \emptyset

ô D²eu^apcvq n²tA C| o^at o^au \emptyset Cmnqt j ci {lc hwpl \emptyset Qf chqtf wnc^o j q| |^a<

ô Hkrgr L^apqu. c| crg| tgf gu \emptyset o quv gl gi {u| gt o gi / d²eu^av \emptyset O gj gvc| \emptyset ^atc \emptyset Gpi go r gf ki ugi⁴ugp c p{gtgi dg \emptyset

C| k o qu h²em² o kv c r gn{j gv h²ngw c n²tc u qf cu^avc<

ô Gu²tg. 3/4^{pn²p}vgu \emptyset #

ô O gi ngu|. o gi ngu|. ô o qf^ao p{gtu j cpi qp ô o ctu#

C tq| u t| »t^k u kngf gr^o gu n²4u| 3/4²uagn v⁴xq| qw. o k r gf ki vx^add n²xci qnwpmc| gl tgf w⁴p \emptyset

Mku kf o \emptyset rc c| crg| tgf gu j^a vchqtf wnc<

ô Ycu kv fcu dgpi A^aOkv lgrpv c| dgpi A+ G| v c| gi { u| »vo gi lgi {gl vgo o ci co pcn \emptyset

ô Rgpi . cng| tgf gu Àt. cpp{ kvlgrgpvo kpv r qhqp0

ô Rqhqpnqv¶ 2 tvpgnkA

ô K gpku. cng| tgf gu Àt0

ô Dtcx». 3/4pn¶ pvgu. o gi xci {qmo ci a xcngi¶ i gf xg0

00 | u 2p o ci co dep a rfwco c n¶4 3/4 j cf Ài {o kpkul / vgtv j qi { pgo gpi gf gw c o ci {ct rcr qm u Àti gv² uglpgm 2u pgo cf qw vÀ 2tu² i gv c j qp² f u² i pgm 00 o gtv j c gl c lgrg/ pgv xrgo o kpv j qp² f vÀ 2ttgn gukn o gi. cmqt 2p o c qw hgm| go c tq| u n¶4 3/4w. j crxc0 Hkrgr L³ pqu r gf ki Xª eqp nquc/ tcvhappc0Ug| ki gp nnggo gvrgp xqpc o kpf ngw pmpgn0

Gug c h j cf pci {qo »n j cmqwo . j qi { c vkul vk cu| vcn/ pªn c| 3/4pn¶ pvgugt n xqnv ul ». u c| cng| tgf gu nklgrgpvgw. j qi { 2p xci {qm c rgi upª lf ki cdd xcrc0 gpp{k n¶4 Àn u c| v l»uqnc. j qi { dgn rgo o 2i l» nqvpc rgu 0

C| cng| tgf gu l»urvc pgo vgrlgugfgw0 J qi { o ktv. c| v eucm jª to cp wflwnk c o ci {ctqm Kvgpg. 2p 2u ô Hkrgr L³ pqu0

OCTKUMC

Pci { nnggo gvrgpu² i glo ngrgvng| vgm cdd»n j qi { c| vpwnc³/eu² o . o kpv lqi j cmi cw». xk| uiª | qwc| gi {gvgo gp0

Pgo 2tvgo c hÀv. j qi { o k v³/4v² pj gvgw xrg0 O² i c v² rgp gi² u| gp pqtoª rucp hqn| vqp dknª tf q| qw0 Mqtc vxcu| / »n ngl f xg ul cmcf cvrcpwn rcd fª v tÀi qw0 Uqj c c ngl² dgp gi { n¶4p {xgv pgo rfwco . fg c rª dc crw o kpf ki i wwn gi { rcd f c. xqnv c| c j ¶gu klÀ cnk c| qzhqtf kncpcm c| gi {gvrgp i »n dgtÀi v0 Tgo gmÀn wf ftkdik pk egvgtg| pk uwwqpk vcuqpk0 O kpf gp cp{ª pcm 3/43/4 g vgrj gvm dgppg. o gtv ulª | o vej/dgp gi {gvrgp j cpf/gv ug cf qw. u dcem rª v² tg j cv i »n cf qwdg² rgv² dgp0

| u gl gp c hÀp c o Ànv j gvngdgp xcrc0 k uclpqu xª nq/ |ª uv xgwÀpm 2u| tg< gmgl fgw vpwprk0 U v o kpf p{ª lwpm ul kpv ci i qfcmª tc cddgrk ulª pf² n¶ pcm cf qw nklglg|² uv j qi { ul ki qtrcvq| pknct0

Vcpncqf wpm c fqri qp. u nkuÀ³/4vÀm j qi { c i {gtgm c| qzhqtf kcm kvª vg cmcmª xcn c| cpi qn ner wuª ncn xkuu| c/ tÀi qw rcd fª v hglgn xª i v xkuu| c. u g n¶4 dgp ci {xgrglg gi { nku² o giª | m fqw0 Eucnku ¶i { vª o cf j cvw h³n dgppg c vpwrf uk² u ul ki qtrcvq|ª ukxª i {0

F gpk vw c hÀgrl³/4vj q| |ª o 2u dglgrgpvgw ulª pf² n¶ v0

ô P ci {qp j gn{gu0 Gnx²i tg xci cfj cvwcp. j qi { xcre/
o knqt eucmcpwpkku ngn0Dtcx»#

C hÀAdk qp{wcp vgnkpgvgvgwt^a o 0

ô P qu o kvncntu| o ²i A

ô Gi { nku r tqvgnk»v0

ô J lc. ³eu²o. kw c r tqvgnk» pgo ugi ¶0 Gn xci {/g
nř u| ĀxgA

ô Gn xci {qm nř u| Āxg. fg jc wfqo. j qi { d^av^ao
rtqvi^a n p{wi qf vcdcp o gi {g[`]< c vcp^atqm gr⁰ C| w³p gi {
nku tqul kpf wrcwn c rgi lqdd vcpw»v ku gn rñj gv dwmcpk
xku| qp v gi { nku l»kpf wrcwn c i {³pi²ddgp hrgn fl²ndcp ku
o gi rñj gvñ vpkc| v. j qi { vcpw²u nř r gu²i gkxcppcn0

ô L»0J^a vnk v nř n| A

ô O tkunř »ř0

ô J gn{gu00 clf dgu| ²rgmxgr0J qnrnknA

ô J qrf/wec 390

Dg¶vco c lgi { | nřp{xgo dg<O tkunř. J qrf/wec 390

ô Kc|. o kd nxk u^a | qnp^a rA

ô R²p| Āi {lqi d»n²ur²p| Āi {vcpd»ř0

ô L». o clf w³pc p²| gn0

C hÀ gn^axq| qw. ²p r gfk i hqn{vewco c tgpfgu per k
²rgvo g0 Gi ²u| gp o gi hrgf rñj vgo ¶²tgvo t n0 Gi { tgi i gn
c| cuu| qp{ h³angn c| | cn j qi { gmArf j gvkg c v²rk twj^a o cv
dwpf^a o cv c u| cd»j q|. p{ctcr^a u x²i gw0 Rgtu| g0 J qn rcnkn
c u| cd»o A

ô C rqpqu cftguu| ²v pgo wfqo. fg nřtguug nk c
lgi { | nřp{xgo dgp0

C| cuu| qp{ c| ²llgrk u| gnt²p{t n grxgu| k c lgi { | nřp{/
xgo gv u v³xq| kn0 | p r gfk i. o kp v p{wi qf v rgnkkuo gtgv
go dgt. cuu| qo vx^add0

Fg x²i tg c rgi p{wi qf vcd rgnkkuo gtgv go dgt ku dg/
vrkn crk^a ucn vñ^a v ²p ku h³angn go nkrpe »tcnqt0 Hgr³/
v³ vgo ²u pgo xgwo ²u| tg ugo o k0 Mko gpvo c| gd²f/
n dg. c u| qdcnř p{ dgj q| v c tgi i rko gv ²u nk nkd^a o wrk c|
wfxtqo qp p{¶». r qo r^a u qti qpcdqntqntc. nř p{gm gup
hñi {cu| vqwo c | ugo n{gu| grvgngv0 C| ³4³/4 km u| grvp² n
gu| go dg lwqw< plpk c| cuu| qp{ plpeu kw. j qnřw o kpf ki
kw u| qnřw Āpk xnggo u| go dgp u tgpfgup o gi^a ncr ¶lwm c
per rti tco o l^a v0

Eugpi gvgn0C u| qdcnř p{ dgl³p0

ô J qnxc p c| cuu| qp{cA

ô Rcmqřř0

ô RcmqnA

ô Kgp. nřtgo pci {u^a i qu Ā. ² u uřt0

O gi křgf vgo 0

ô J emlc. " t| uk pgo l^{3/4} v c o co ^a »n xcrc0 k r^x2 n o c tgi i gnA

ô P go . c r qu^a u o ² i pgo ku l^a tvo c kv0

ô ĩ { j^a v tqul j ĩ gnt n u | » ug r^g v0 M Āř lg kř g c | cuu| qp { v c | qppcr0

Mř v r gte o Ā k c q w ^a m v gn vgo c | cuu| qp { 0 X^{3/4} ^{3/4} u | go g m r n0 U^{3/2} v g p . o k p v gi { u m v d c m f c 0 U | Ā » v g n k p / v g w n p ² | g w t ^a o 0 | u ² p j k t v g n p ² d g p r g u Ā v ^{3/4} v g o c u | go go g v 0

V g u l k m w f p k ² p pgo v c t v q o o c i c o c v t q u l lř t l p g m f g u l k p v ² p u | » k c . n k v p p g m u g 0 C p e r p e m g f l e u ² i k / v g u p g m k u x c p p e m h q m l c k j ^a v j q i { p g r g p p ² p g m c lř t l p g m g r g x ² u d d ² f l e u lř f k v g u p g m A K c | ^a p o q p f q o . d q r f q i e u c r ĩ f k ² r g v v ² r g m o ² i r g f k i c | ² t v . o g t v c h g r u ² i g o g i ² u l g p c | ² p i w u l w u q o u l g t k p v ² n x k u l q p v p g n g o o g i g p i g f k j q i { v g r l g u g p c o c i c o i w u l w u c u l g t k p v ² r l g n 0 O q p f j c v q o . j q i { c r g m k u o g t g v g o g i ² u l g p v k u l v c . f g o k n q t c | cuu| qp { v k l g p nř u ² i d g g u g w ^a d t ^a | c w e n d g r r p k r ĩ w c o < o g i f q d d e p v c u l ĩ r g o 0 U c | v c nř t f ² u v k p v | v g o ^{3/4} p o c i c o j q l < x ^a l l q p o k v k u v g w g o ² p c nř ⁴ g m Ā n d e p A

M g l g v e u » n q n c o . l » t g i i g m n ĩ k ^a p v c o u nř t f g o <

ô J ^a v o c i ^a p c m o k d c l c A

ô P g n g o u g o o k 0

ô W ĩ { c p p g o q p f l q p k l g v j k u l o k p f l ^a t v u ř t x c h e n e f 0 G t t g c | c u u | q p { vř p { r ĩ u ř t x c h e n e f v 0

P g o x c i { q m v Ā n ^a i q u e p ² t | ² n g p { c | c u u | q p { k nř p p { g m k ^a p v o g n { g m c e u c r ĩ f k ² r g v d g p c r ĩ vř d d g u g v d g p v g r l g u g p c n r v c r p w n h q n { f q i ^a r p c m f g o ² i u g u l g t v g o . j c c | c u u | q p { u ř t 0

ô P g u ř t l q p nř t g o . j c p g o h g r l g p

G l v p c i { q p u l ^a t c | j c p i q p o q p f v c o . j q i { c | c u u | q p { f Ā j d g lř ⁴ lř ^{3/4} O g t v e m u l c d d e j c i { l c c u ř t ^a u v 0 C o e p x g t u l n g t Ā n 0 C | c u u | q p { r g x g v g | u g d n g p f l ² v c | c t e ^a t » n u u | » n <

ô O c i c t Ā w n x k u l c ² n v c | ² p d k e m c o o c r 0 O c i c c | q t t q o p ^a n h q i x c x g l g v g p i g o 0 | p u a j c u g d a p v q w o lř ^a n g i { r g x g r v u g . u a j c u g p ² | v g o d g r g c p q v g u l ² d g . o g n { d g p ^a n ĩ v r e i t g i ² p { vř t i { e m x c p p e m u a j c u g n w c w c o c | ĩ » c u l v c r ĩ d e p 0 U o k c l w c m c o A J q i { o g i e u c r ĩ 00

" u u l g x q p v c o c u l g o ^{3/4} f ^{3/4} n g l o g v . u j kř g i g p h g r n g o <

ô D k q p { ĩ ² n q m e v nř t g n 0

ô C f l c kř g c l g i { | nř ⁴ p { x ² v 0

ô Vgu²m
f vcf vco 0 C| cuu| qp{ j gxgugp rcr q| qw dgppg. x²i tg
o gi^am0

ô ~o g. kvxcp0
M^ka peukp p²| vgo dgrg. u o kv n¹ vqm< Octkumc. J qrf/
wec 390

ô ~o g. c ngf xgug#
O qpf j cvqo. j qi { pkpeu c| c dqj >| cv. o gn{gp lqdd
¶ v næci vco xqpc0 Octkumc. pq fg n¹tgo. j qi { Octkumc
c| ²p ngf xgugo #J cj c| c#

C| cuu| qp{ gn^a o wxc p²| gwt^a o 0

ô O ci {ct^a| cvqvn¹ tgn0

O gi u| p vgo p g x g v k 0 C j qo m n q o t e $\tilde{A}^{3/4} w g o 0 J^a p \{ c /$
f knc xcp o c A J^a p { »t c A U g p v K v g p. c| c d q r f q i v c r p h k A
o c x k u i^a | k m² u² p g r h g r l v g w g o r t q v g i^a r p k 0 V c r f p o² i q w j q p
v r f n q o O c t k u m¹ v . t | u k j c o c t n q e u k #

C| cuu| qp{ c x^a mco t e v g w g n g |² v 0

O ci {ct^a| cvqvn¹ tgn#P go j c m q w c A

Gi { r g t e c r w g r o q p f v c o 0 C| cuu| qp{ t^a o d^a o w m 0
P go j k v g 0 R g t u | g. o g t v k i c | x q n 0 J c x c r o k h c p v k u | v k m u
o g u² v j c | w f v c o x q p c. g r j k v g x q p c 0 P q j^a v l³/l³/p x g r g o
O c t k u m¹ j q | 0

ô Gn ku o gi {gn# ô nk¹ nqw c| cuu| qp{ x²u| v >> u n c p 0
G r k n e p c v d e p n¹ r g w d g D e p f k d^a p c v q u c p. o k p v g i {
p c i { r² p v g n k j q m h k A c n k v o q u p c n 0

ô P quA

ô O gi d w m c o 0

ô M k d w m e v q w o g i A

ô O c t k u m 0

F k f c m c u p p²| v g o c | cuu| qp{ t e. n l p g m c t e c g i { u | g t t g
n k f g t A n 0

ô O k v n¹ t f g | g w v n g f A

ô C | v j q i { o k c r² p | \tilde{A}^i { l q i 0

U o k v h g r n² n A

ô J q i { o k p f g p n l p g m l q i c x c p r² p |² t g \tilde{A}^i { g r p k 0

ô J c j c j c. d t e x >> #

C u | g i² p { h k A c | v j k v g. j q i { o g i d q u p f w m w p m o g t v
o q u v o^a t c | cuu| qp{ k u p g x g v g w 0 0 0 C f v c o c i { g t g n p g m
 $3/4$ r g p i v² u q w h q i v c o g d² f t g 0 0 0 $3/4$ $3/4$ $3/4$ d g p. j q i { c
f q m j q n { u | g t g p e u² u g p x² i | f $3/4$ w. o g t v n¹ v r r r c n q f^a d d
c | cuu| qp{ g | v q i x c u j c w c x q p c c p q v g u | g o d g p < C p p w u n c.
U ¶ k / w e c 7 5 0

O WTCKMf TQN

3: 79/3; 55

HK MGI [J f \

Mcpedqnc pci {n^{3/4}u²i c t²i k j cv³t txkf²m gi {km u²r²p
 j Ì | c o gi o ci^av u c pci {xkf¹i gn w ki gp ngx²u² kuo gtgvu⁰
 Ncm>k t²u¹dgp qn¹j qm t²u¹dgp r g f ki u¹ gtdgm cnkm m¹ñ^{3/4}p/
 m¹ñ^{3/4}p vgo r nqo dcp n^{3/4}p {^{3/4}^{3/4}pgm c d pdqeu^apcv²tv. o²i/
 r g f ki ngw u gt xgn co kg dk qpp{cn o gi xcp c| qmw⁰ C|
 k¹vgnki gpek^av vgo²u¹gvugp c o ci {ctqm n¹r g| km cnkm c
 j kxcv¹qndcp r kr^a| pcm u cnkmpgm c xku vgrv²tg o k¹pf gp xcu^at/
 per f²nw^ap u^{3/4}v eucr qmpcm co k Mcpedqnc²ng²dgp o k¹pf gp/
 nqt nko ci cun» gugo²p { u¹ qnuw ngppk o²i r g f ki qn{cp.
 co gr{tg j kxcv¹q| pemku⁰

O knqt gpi go qf c j gn{g| vgm u o knqt qf ckpf waco . ki gp
 i qpqu gn²t| vgm i {^{3/4}^{3/4}vgm u qn{cphqto^a p²tg| vgo o ci co .
 o k¹v c u¹ gi²p { vgw| j cnqwc m cnkm xku¹ v³dcp xcppcm c| | cn
 j qi { vgo gpk xku km ngv u j qi { c nqrqtu» h^{3/4}gr²v ugi qi {
 ugo n¹r gugm cppcm o »f lc² u tgpflg u¹ gtpv nkt Ì pk⁰ C o gi /
²tn¹g²u ugo xqrv xki cu| ven». o gtv j²h k per tc gugw u o gtv
 j co ctqucp h^{3/4}xk¹i qu¹qwc m j qi { c rgi n^{3/4}grddk u^{3/4}eucr qn¹u
 eucm xcu^atper ngu . co k c| v ku lgrgvk j qi { c f f ki c o ctf²m
 u^{3/4}d nngm²rf gi²rp⁰

Fg o^aum¹ñ^{3/4}pdgp ku p{qo cu| » xqrv c j gn{g| gv. o gtv c
 j²v ci d>n^am» o ci {ct v³tucu^ai ngdgr²dgp xku^an{qm f Ì^{3/4}pi /
 vgn⁰ C u¹ qn¹cd¹» o gi u²tvwg c l^at^aud¹»v. co kd n r tqxq/
 n¹n¹u u^ato c| qw⁰ C p²i { ugi²f rgtu| g p{qo dcp o gi m¹f v³
 c v³ti {c¹u¹ co kpgm c| xqrv c x²i g. j qi { m ku^{3/4}u¹gm¹ñ^{3/4}p/
 d^{3/4}vgm u nqxi kcu Ìtc cmet³m vgtgpk c f qn¹qv. co k c| qpdep
 ugi²f gm j k¹p{^adcp pgo ukngt Ìn⁰ C| Ì {gv o k¹pf gi {km gr²o
 vtlgu| vgw. u¹ { v^{3/4}v²pv. j qi { c| v j cv¹ng xk¹i¹ v³udcp

kuo gtj gwgo o gi . co k r gtu| g pci { qdd x^a nq| cvqu^a i qv n^r r g/
| gw. o kpugo ctte u| $\tilde{A}n^2$ i ngwxqpc0

C| xqrv c u| gtpeug. j qi { c j² wci \tilde{A} kpvgmki gpekc j gvfg km
vci lc xgtugp{gp n^r k^a n^a m^v u \tilde{A} { o kpf gi { kpgm gn vgtlgul vgw
co c| kpf $\tilde{A}x^a$ p{^a v. j qi { c vku vgrvgo tg $\frac{3}{4}o$ gtngf² uk gu^v n{ v
ngmgpg tgpfg| pl0 C| kpf $\tilde{A}x^a$ p{v gnhqi cf v^a m wi { cp² u nklgrrp/
vgw² m j qi { c| $\frac{3}{4}o$ gtngf² uk gu^v n{ gp o gi lgrpppgm fg² t| gn/
o gkm² u x² ngo² p{ gkm vrlgu h³ppvct^v uc o gngw. co k c| v
lgrppvgw. j qi { gi { o^a uv c| gu^v n{ fce^a tc ku j kx^a p{ h^a v/
tgmrgm vctv^a m cnkm c m^r xci kcu grⁱ v² vgn cf^a u^a tc² u xgx² u² tg
n^r r vgrpgn0

Gpi go vgo² u| gvugp ki gp jctu^a p{² rlgpv² uugn hqi cf vcm
fg gi { o^a uj q| pgo u| »ncn0 O² i c| c j^a tqo vci \tilde{A} m^r f^{3/4w} i
ugo x^a nqw u| »v. co gn² tvgo l^{3/4w}. u co gn² c| gu^v n{ u| \tilde{A} p/
vgt² tg xglgvw0 O kpf gi c| qpdc² rrgp pgo |^a tv nk c| v
j qi { c| gu^v n{ tg gi { gpn^r pv² u m^r p² tng| o ci { ct wcm pg
gi { \tilde{A} vugp² u pg nctqphqi xc v^a xq| | cpcm co c fcn xk^a o
j cpi q| cv^a uc o gngw. co gn² x² i u uqtkdcp c| v o qpf lc.
j qi { <² rlgp. ² rlgp. ² rlgp c. ² rlgp c dca^a v^a i #

G nkd² m^r f^{3/4w} upgm c| xqrv c| gru gu n^r xgvwp gtgf o² p{ g.
j qi { o^a upcr »n ng| f xg gi { \tilde{A} w wpcvnu| wpm co k l »xcn ngn/
ngo gugdd. o kvj c m^r p² / m^r p² wpcvnu| wpm0 C| go dgtpgm
o kpf ki l »ngukm j c plpeu gi { gf Anu j c² t| gm glvo gi qu| vj cdc0

Gmqt^v lv o kpf gpl^r ng \tilde{A} ppr per qm l^a tvcm u Mpcdqni/
pcm u| gtd² u tqo^a p rncqu^a i c gt u ki { gng| gwgn n^r vi cwc c
vgo r m^o qm^v0 Hqn{ vppqucp n^{3/4w} / n^{3/4w} ko^a fu^a i qu n^r p{ xgngv
ekr gn go dgtgngv n^r wpm v^{3/4o} l² ph \tilde{A} v/ u| ci qv² t| v \tilde{A} pm² u
qti qp^u »v j cm^r wpm0 Gddgp c j gn| gvdgp c| w^a p dk² qp{ qu
xcn^a uqu² t| \tilde{A} gv u^a m^v o gi dgpp \tilde{A} pngv u qn{ cphqto^a p² t| /
v \tilde{A} pm j qi { ki gp/ ki gp p{ qo qtwn^{cm} xci { wpm0 Ugo vgo r m/
o wpm ugo r cr wpm ugo ko^a fu^a i qu n^r p{ x \tilde{A} pn0 } i { ² n \tilde{A} pm
o kp^v xcro k xcf cm u j c gn v^r n^r wpm r wu| w^r pk dk² qp{^a tc c|
 $\frac{3}{4}f \frac{3}{4} \frac{3}{4}nqu| vq| nqf pcmtclwpm0$

C v^a tuc^a i gi { km vci lc ncvrknwu xqrv u o knqt c| ko^a f/
nq|^a u x^a i { c t^a l^{3/4w} gi { u| gt gp gm gpv c| qn^r j vgo r m^o dc
u c| v o qpf v. j qi { pgnk c| ku n^r p{ gddu² i² tg xcp. j c o^a u² tv
pgo. j^a v c² tv. j qi { gi { j² ki² t| k o ci^a p c v^{3/4o} l² ph \tilde{A} v
u| ci^a v0 Ok c| qpdc² j gvwp xcuci p{ cm \tilde{A} n^r m^o kv³ m xqrv wpm
u \tilde{A} { qnqunqf wpm j qi { c pgi { xgpp{ qred »n pgo gpi gf \tilde{A} pn0
J c plpeu n^r m^o kuv r cr. cmqt pgo n^r gm ugpnk j c o kpf l^a tv
u| gpvku0

Gi { gu u pcr. o knqt wpcvnu| wpm ku. o gi co knqt c

xcnf uqu 2t|gro gm ku hgnAmgtgnf vgm c l^at^audf» qn(cphqto^av
o qpfqw. jqi { h»ngi {j^a|cv crcnfj cvp^apn0 Gx²i tg xci {wpm
jgvp u pgnAm pgo ngm o^au. eucm gi { vgtgo 2u gi { rcr0
C o gi crcmw^auv nko qpf lwm c rtgudk²tkwo qv o gi x^arcu|vwm
c| gi {j^a|k cf»v nkgvAm u w^apcp²|Am jqi { o kpf gp l²n/
gu|vgp dgp ngtf|uAm gi { rcrqv. cnk c nrmAmngv o gi p{wi/
vcl0 C l^at^audf» kpf f^ax^ap{c |clqu jgn(gur²uv nngw u o²i
cddep c| »t^adcp o gi crcmw^awpm co kd n 3/4n²pv n²kgv/
ng| km jqi { o kpf cpp{ kcp rtgudkgt gmrgwAm0

C| gi {j^a|k cf»v u|go 2n(gpn²pv v| hqtkpvdcp^ancr f|
vqwm o gi u c r²p|v²tpqm o^at c rgi n²4grddk rtgudkgtk
i { r²ugp lgrgpvgw. jqi { c h»ngi {j^a|pcm jgxgp hqtkp
xci {qpc xcp. co k vrdgugp grgi gpf cttc. jqi { gi { vku|vrgv
At wcl^auk n²4u²i glv h²4³4|g u jqi { cdd»n o²i km vku|vrgv/
fkl ku nkg²Am³40 C r²p|v²tpqm lgrgp²v²pgm wfqo^auwn
x²vrg w^ap c i qpf pqnv c|cn d²wm o gi. jqi { rcr w^ap
p²|gp u jqi { c| gnu kngpvku|vrgv kf gl²v jcv²tq|c o gi.
nk^arcu|w^ap c rgi emero cvqudd xcu²tperqv0

C i qpf pqm ki gp nqo qn(cp xgw c h²4rcv²v u r^at j²v
o Amc tgpfn²Amk rtgudkgtk i { r²uv j²kw 3/4u|g. co gn/
dgp wfwpntc cfv. jqi { o kpf gp tgpfdgp xcp0 M²v j²v
o Amc. u|qo dcvp n²u f²nw^ap 2tng| km o gi c vku|vrgv
At. cnk o²i eucm n²r n²p wi {cp. fg cnk pgnk kunqr²tuc xqrv 2u
r qo r^au gi { h²40I {3/4{3/4 vgpqt j cpi lc xcp 2u c r²t²fkn²eklc
qn(cp. co gn(gp o kpf gpnkpgmo wu^al u²pk0J c c dqtv ngx²udd²
u|gtgv². o^at t²i gp r Am 3/4m rgi gvgw xqpc. o gtv pci { gu|g
xcp0 M²v n²4gv u|gtgm gu xgtugv 2u dqt² crv o^at nk ku cfqw u
c|qnpemki gp pci { ukngt xqn0

C i qpf pqnk lgrgp²u o gi 2rgp| 2ug w^ap j^atqo rtgudkgt/
v²tuxpnev c hqi cf» 2u gnu^an²uqn» dk²qwr^ai dc x^arcu|vqwm
c|cn ku o gi d²x^ap. jqi { c vku|vrgv At vku|vrgv²tg tgpfg/
|gpf dcpngw fqri^av ku tgpfdg j q|c u jqi { c t²u|rgvu
rtqi tco o qvku nk²qri q|c. co kgn²i j co ct o gi v²4v²p0

C rtqi tco o u|gtkv²p 2u gi { rtgudkgt²tuc o n²4u²i
jcv²t^adcp hqi cfwm c n²ueuk²tng| vku|vrgv wtcv. cnk c|
Af x³4n dgu 2f gv ki gp nqo qn(cp o gi jcmi ewc u cnk 3/43/4
o²pgm cfqw nkgl²uv. jqi { c h»ngi {j^a|cm u^ao c o gi/
u|crqtqf qw u jqi { u|gtgvw xcnf uwpm g pgo |gk²i gm rcmc
xf²ngp ku 2tx²p{v wfqw u|gtg|pk o ci^apcn0 Oclf o gi
t^a|wm gi {o^au ngl²v u c n²v n²ueuk c n²4u²i dg kpf wn0 Mcpc/
dqnc gnu we^al^apcm dgl^atcv^ap^an o^at n²v rtgudkgt x^atc/
nu|qw. cnkmpgm gi {kng Ald»n Af x³4 3/4ng c vku|vrgv wtcv.

co ktg ¾¾²pgm cfqw nktgl²uv. jqi { c hñngi {jª|cm
 ulªoc o gi ul crqtqf qw u jqi { ul gtgvgw xcnª uwpm g pgo |gk/
 u²i gm rcmc xkf²ngp ku ²tx²p{v wfwqw ul gtgl pk o ciªpcn0
 Xªrculªv rmgugp o gi²rlgpg|vAm u c nªv nqjuk ô co gn(tg
 c| wec grl²pªm» rtgudkgtgm ku hgnªngmô c lªªudª»ªi gr²
 jclvcqw. cj qn c h i qpf pqm oªt pci {qdd ul cdªuÀ Áfx¾n/
 dgu²fgv gtgu vgw o gi u cpp{ktc o gi jcvqwc c vku vrgvgu
 wtcv. jqi { c ul go²dgp nªpp{gmn gn lgrpvvgw nk jqi { ¾¾²
 o²pgm ngm nktgl²uv cfpk c h¾¾w. jqi { c hñngi {jª|cm
 ulªoc o gi ul crqtqf qw u jqi { ul gtgvgw xcnª uwpm g pgo |gk/
 u²i gm rcmc xkf²ngp ku²tx²p{v wfwqw ul gtgl pko ciªpcn0

C r tqi tco o g t²ul²pgm rghqnªuc wªp c vku vrgvgu Àt
 xku|cxqpww ²u o gi o qucnqf qw. o gtv jªv c| Àqppci {
 xqn c rqt u g| Ài { dgrvr g c| cteªv. jqi { c| ²fgucp{l c ugo
 kuo gtv xqpc tª0 C ngm h¾¾kuªªu wªp nªªpndg l¾w ²u
 xgnªpm gi {ªw kpf wv c pci {xgp²i n dg. jqi { c vku vrgv²tg
 tgpfg| gpf dcpngwgp t²ul v xgi {gp0 C mªªpu qdªdcp oªt
 nªul gp xqn o kpf gp u c vku vrgvgu Àt c h jgn gv hqi rcmc gn
 ul qo ul²fuªiªdcp c h i qpf pqpncm u c r²p| v²tpqncm u ul go/
 dgp o kgnªpm c rtgudkgtgmgn cnkm dk qp{qu o gi jcvqw/
 uªi i cn p²| vAm v cnk oªupcr f²rgn w c o k xcnª uqu ul qo lÀ/
 uªi wpcvo gi ul Ápvk0

C r geugp{²p²nc h i qpf pqm hgnªnv u ki cªªp tgo gm dgu²/
 fgv o qpf qw. co k wªp c rcr jqu|cdd kf gki i qpf qm|qw u
 co ktg go gn v jcp i qp lgrpvvgw nk jqi { ¾ªp k ngm o gtv c
 hñngi {jª|cm ulªoc o gi ul crqtqf qw u o gtv ul gtgvgw xcnª
 rª uwpm g pgo |gk u²i gm rcmc xkf²ngp ku ²tx²p{v wfwqw ul g/
 tgl pk o ciªpcn0 G| c r qjªtnª¾¾¾v dªt ¾¾o gt upgm vgu gw
 gn wªpm »lªuk jcvªv ngngw. xcnªulªp ngi c|²tv ku. o gtv c
 o k ²ng²uªpmgn x²i| f¾w. cnkm c hñngi {jª|cm ulªoªv
 o gi ul crqtªqwwn u cnkm g pgo |gk u²i gm rcmc xkf²ngp
 ud0 ud0

wªpwm o k nªkgnv|vªpm u gi²ul dªtcp dgxcnj cvqo .
 jqi { o knqt c| wqn» rtgudkgt ku²ngwg c vku vrgvgu wtcv.
 cmqt c| Áppgr gn v c| v nªtf g|vg. jqi { g pgo |gk u²i rcmc
 xkf²ngp xcp/g ekiªp{A C nªtf²u rgtu|g h¾¾ªngi gu xqn. o gtv
 c ekiªp{ oªt nkp v xªtcnq|qw uªi { c vku vrgvgu Àt vgpqt/
 jcp i l c o k j co ct ²tx²p{guªm. c o k jcp i lcpm nª²tg²dgp0
 | lªnwªp c h i qpf pqm c| v nªªªpv. jqi { c rcr c| cu|vcrp
 fcnqdp. co kgn ul go dgp c| Áppgr gn co c| »jclªpcm cfqw
 nktgl²uv. jqi { c| cu|vcrp c ekiªp{qm hqi rncpcm jgn gv
 u v c jgn²p jci {lªm²pgnªp0 G p²| gvnªpdu²i pci {qdd

xk³tc ul qn^ancvqw qnqv qn{cp xk³tc. co gn{ j qu| cucp
 vctvqw u co gn{pgm c| rgw c x²i.g. j qi { o kpf cpp{lep c|
 cu|vcn vgw²tg ngt²pm c eki^ap{ r g f k i c| cu|vcn crw
 j A vc0 G| gn o kpf cpp{lep o gi g²i gf v²pm u gi {j cpi A²ci
 nqpuvc³nwm j qi { c xk^ao o wcv^ai o quv o^at ki c^ap ngl f
 o gi kpf wpl0

0 0 0 O^aupcr tgi i gn p{qrē »tenqt c h²ngi {j^a| ul qn^alc
 vrgugp dgtgpf gl v g c l^at^aud²»u^ai ngi pci {qdd vgo²v C ul »/
 ul²nhto c cmqwo^ap{v 3/4ul g^an²qwc. c ul²ngngv uqtdctemc
 u c| gn tg o gi tgp f gnv u tk g²tg d²q w | uqn³tqnev nkn²ul²
 vgw0 C| w³p r g f k i gi {²d f q n i j k²p{^adcp gmgl f gw x^atc/
 nq| pl0 G x^atcnq|^au^adcp o gi /o gi p²| v g c| »t^al^av²u c o wc/
 w¹v c nk²pegugp ku. u v c v²gpngwugp ku n²wc. cp²m²A²n
 c|qpdep. j qi { c h²ngi {j^a| h i qpf p q n²v. r²p| v³tpq n²v
 rtgudkgtgkv n²wc xqpc. nk²v²g²xgn c vku vrgvgu A²pcm cnk
 o gi lgnpv²u gi {²d vggpf m j k²p{^adcp gn³xq| qw0 O knqt
 c| w³p c vtp{qm »t^ak c v²gpngw v j c t c p i q| v³m cmqt c
 h²ngi {j^a| vgo r nqo^av dgl^atv c²u gn²gpv gd²f gpk dk qp{^atc
 o gi eu»x^anc c hgl²v. j qi { c j c l p c r k i d c p n g w g | gi {j^a|
 o kpf gp ul qn²u²u vku vgu²i gmpp²tg. gcnw²vc c| gn kuvp/
 vku vrgv. co gn{ gcn^au^axcn c h²ngi {j^a| ku hgnq| nqw. o²i/
 r g f k i c p p^an k p n²dd. o gtv c| gi {j^a| 3/4ul gu xci {qp^av grk²wg
 c dcpngw²u grk²wg c eki^ap{. o gi gn | xg c| 3/4f 3/4 3/4ngv. cnkn
 o clf c p p c m k f gl²p o k p n g v x k u | p g m g n o g t v j^av cr r l^adcp
 x²xg c h²ngi {j^a| cm ul^ao^av o²i ugo ul cr qt²qwwm u g
 pgo | gku²i nmc xk²ngp ul gtgvw xcn²uwpm o²i ugo wfqw
²tx²p{vul gtgl pko ci^apcn0

MR EUKUVXf P

3: 89/

—LR: THGNX! VGN

Mgu| p o gi nupf wv c n'ngj ctepi 0 | ngu j cpi lc l' l » p
u'fv dgrg c hcnw j cpi vcrpwn^a m qf q| » eu³/pf l² dg. j qi { o kp/
f gp² n rmgvcttc hki { gro gl vguugp<

ô Go dgtgm Xcrrnk o quv xlcunqf km c ngi { gvrgp
neul^a uucn<o qpf lcvqmgn² tv gi { O kv^a pnuv0

C| c xlcunqf^a u r g f k i p e i { q p u q n i k i v e t j e v q w o g t v
c j c t e p i e u c m u l » n v² u u'fv0 Ug x² i g. u g j q u u l c 0 C h c n d g r k
w t c u i p c m u l g i² p { J » f { V c o^a u p c m g n d d n k u l c n e f v c r g m g.
u v c | —t k u g p v c r i p o^a t o g i k u ' l² n g c m q t^a t c. o k g c
d'Àeu'À v » j c t e p i u l » x² i u v n u p f w n 0

J k' dc. p q. c xku vgu² i gu go dgtv o² i c j c n' r w³ p ku
o gi u l q m³ m d g e u ' A n p k g d d g p c l^a t p {² n x k i i d e p 0 C f g t² m
v n k p v g u ' A p c m j q l v m o k p f l^a t v o^a u p c r e u k n q i »² t e n q r q t /
u » v. h k p q o u g n { g o u l g o h³ / x g r 0 \ ³ / f d e d² t² u r^a m^a m u l q /
o q t n u f v m c t e x c v r e o g m g w. n³ / 4 ' A n³ / 4 v g o g i h e n g v g v e t w » n l
d e p. q n { c p x e u c i i { g t v^a m x k t e u l v q v e m n d d q i » u^a t i c n' p i /
i c n j q i { d^a v e p d g k r g w e m x q p c n g t ' l² u q l n r q m p c m k u 0

O c m v r e j k d c u g o g u g w c l g i² u l t g p f g l² u n³ / 4 ' A n m³ / 4 p d g p.
e u c m X c f » e l D e r i l l u c n c u' f^a u » x c n i { n v o g i u l g i² p { j c m q w
p c m x² i g l g v ' A n k u c d e l c 0 C | x e r j q i { o g i e u³ / 4 n³ / 4 p { ³ / 4 u³ / 4 v <
p g o c n e t v c o g i^a u p k c l w t c u i u' f l^a v. o² i r g f k i c p p^a n c l
g i { u l g t q n p^a n h q i x c. o g t v g n³ / 4 v c l^a u » l c 0

ô Euceuk go dgt nupf # ô vngtv hgl² v eu³/pf gu o² ti g/
n f² uug n c neul p^a t 0 ô C | w t c u i h² n l g t² d g p i c t o c f^a x c n
j g x g t c d d » n c u l g t u l^a o d » n < o g p l g p² u x^a n i c u u q p d g n r g
u c l^a v g w l² u g u l g t k p w #

ô C | v p g o r g j g v ô g m g p n g l g w c n³ / 4 p d g p u l g r i f f .

l>u^ai qu go dgt ô . o kxgij qi { u^fa u» o^a u ul gtul^a o o cn pgo
f qni q| j cvkncdd>nxgul gf grgo hcf| kn0

ô P g dqmpf wlp. Dcrñ|u# ô tkcfv t^a o²tgi gn c
neul p^at ô ngpf gv qnucdd go dgtpgm kuo gtvo gff ki 0 Fg jc
cpp{ktc n³/4k o ci^av. hAw{ pgnk< l» r²p|²tv n^{ij} cpqnl^a m o clf
c|v c u^fv c d²tuguko ku0 ô C| | cn o kpf l^atv hcn^rr p²n j ci {vc
c| ³/4gi gv0

C| ki c|k ngxgtg²u c|qpdep eum gl w³p n³/4gwng| gw
o²i< c d²tugum pgo x^amcn⁷ m c o gi d^qa u0 Mldngpvgw²m
ngtngp. j qi { m o kpf gpv o gi vgl pgm c| wtcuⁱ ngf x²tv<
v | dg/x^q dg o gppgm ²tv= fg c|v pg n³/4^aplc v n^{Am} ugnk
j qi { u^fa u»mpcmul gi flgpgn0

ô Ogplvgm j^av cmqt c hgp²dg# ô i wvav o quv o^at
ki c^ap o²tgi dg c neul p^at ²u o gi kpv t^a hcp{mqf qw c Xcf>e|
Dcrñ| | ucncx< v³ ti {cñ utc0

ô Oqpf lc j^av ³/4gi. ô ng|fv g v^{At}gm²v xgul vxg ô o kv
cnct ngpf xqmcn^rrr gpA

ô | pAô r t>d^anvx²fgng| pkul grff cñ| cvnc l» go dgt0

ô Ugo o kv. vgnkpvgu At=j ceucmtquul p²xgp pgo xgpp²
v ngo. gi { n^rt²ugo o²i ku xqpc0

ô J^av nk xrg j c o ct# ô nⁱqw o^at e²tpcu^a n^p c
neul p^at v^{At}gm g0

ô C| k^apv n³/4{³/4³/4 p²m< xgi {gpgm pgngo Àl^au>v
co gn{km c| w³p c w²lf qpqo o ctf lq. cmqt cñt kpi {gp
ku gm^rul ^qgo ul gi²p{ wtcuⁱ u^fl^a v0

ô Pq x²itg ô n³/4pp{gdd^{Aw} o gi n^{ij}cv>ni c vgl v
dqul À^ri c0 ô J c eum cpp{kp o À^{km} tgpfdgp c fqni 0
O kc|^atc eppcmc ul gtul^a o pcmA

ô Pgo wfqo dk|vqcp. ul gtvgwgn n^rtgo. o gtv Àcd/
dcp ewfctwn o gi ft^ai ^qqwcm c |ukf>m o kpf gp rqt^vn^v
t²i gpv000

ô P g d^apw c|v. j qi { o k xqv t²i gp. ô ng|fgw c
neul p^atdep o^at o gi kpv xcrc o k^ai cunqf pk ô c o quvck^at^av
n^rtf go 0

ô Ngj gv c| n³/4 gn n^rv r³/4pi ku vñ^p ô ul qt^qqwc nk
pgj gl gp c pci { uwo o^av Xcf>e| 0 ô J cpgo ²p eum c hgr^v
^ql²tp²o dg gn ul ³/4. o gtv c|ukf>mnencmwf pko wul^a 10

ô Dwcu^ri # Cmqt c hgpngv ngt^qgpk k|gp rrr^ark^apcn#
ô ul cnefv nk c neul p^atd>n c r>t^a|tc hqi qw o²tgi 0 ô T³/4 v³/4p
dgm^{Aw}f³/4m xcrcnk v c x^atquc ²u j q|cvqm xrg cñt j^ato cv ku
o kpf l^atv. j qi { grⁱ i gi {gp ngpf pgm xci { ³/4xgp gul vgpfgki
o²i #

C| ¾gi c| qpdep vngtv c hgl²v. Ài { vwg j q| |^a<
 ô P gngo eucm gi { ngm vgnkpvngu Àt. j cpgo o ci co
 ul gtgv²o nkx^arcul vcpk j c pgo x²v²mc ul »o o cfo
 ô Go dgt# ô tkcf v c ncul p^at vng o²tgi i gn c|^a tvwrc/
 pwnr kumji » o vni^autc ô o gi cnet dqmpf fcpk gi²ul gpA
 ô C|^au»pcm vgu km wf pk vgnkpvngu Àt. uqm eu^aplc/
 d^aplc xep. cni^at eucm c n»pcn c ul^a| cf km go dgt ugo²tvk
 cppcm o kpf gp hqt²n^av0 U go tg qn^acp. j qi { vni^ap o ci c c
 xlek^ap ugo vni^an nkxgvk xcn»v tclv. fg j c²p n^a| dgxgul go.
²u o gi r³pi ggo. o kpf l^atv vku^av²dc xci {qm xng. o gn^akm
 o^aukp^acm o k c p{cxn^alc0 C|²tv eucm j cff o gplgm²p dg
 c x^atqudc# Qre» r²p| gp qn^acv xgul gm j qi { vni^ap. j c vni^ap
 c| —tkvgp ul^a| gul vgpf gli vni^anc ku²ngvpk c vgnkpvngu ncul/
 p^at wtev. c|²tv c| | cn^auqo o gi xcrc knqt o²i c u^afl^av. ctt»n
 l»^amqn0

C ncul p^at vrt>f qwf Æj²dgp0—i { rt>d^a nvi Àp{qn>f pk<
 ô Xci {ku²p gi { tqpi {^au» o kcw dghji cuucm²u o ci^av
 dgxkguugo c x^atqudc. vi {gd^atA

ô Fg j kul gp gm gi {gm²p qfc i {cmji ku. vgnkpvngu Àt
 ô x²nggf²mc| gi {ul gt go dgt0

ô | u o clf j qper f²itg²t xku| c. o knqtte o^at n^aul gp
 ngnpg^ampk c u^aipcn0 Fg pgj²| l^ad»n hctci v^amc ngpf nqr q/
 p{^al^av go dgt# J cpgo wflc. c| qnqucdd gpi gf< l^an>tc
 o Àxc gn^am c nqeuk²u o gi gv telv. co gttg c ngpf^au>l^av
^atwl^an0 J cpgo j c pg^ap j qper f²itg n^aul gp pgo^am c u^al.
 cmqt j wul qp³/₄³p cwnpgo cf qo 0| tvkA

ô | tvgo ô xqnc l>u^ai qu o gi gn^ai gf²uugncf qwx^arcul 0
 ô Vgj^avppp{kdgp o ctf vni0

Hn>tc ugo vngw dgrg²u gn^amqw c dtleunc n^av vku| vgu/
 u²i gu n>xrc0 Xcf>e| pcm c j^au» Ær^augp ngnw xqpc j gn^agv
 hji rcpk. fg euwrc ul gt²p{u²i d n c nqeuku o gn^a ul gt| f³/₄v
 u v. j qi { o gi o wcuuc c pci { ul qn^arcv^aul u²i gv. nkxgw c
 nqeuku ng|²d nc i {grn v0

ô P g h^atcfl o kcwco. L>unc# ô n^atrng c rgi²p{v ô
 c| wlk^al^au. wf qf. pgo xqnc ngp{gtgo uqj c0

C nqxm r f gli o gpvni0 Dk^avc^au p²m^an ku Ài { p{cti cn/
 vem o kpvj c eucm wf^av m xqpc. j qi { c| grj cni^aq| qw wcu^ai /
 pcm vgu pgm xgrg wqn» ul qn^arcv0 M^av »tc o Àxc o^at l^an^a/
 v pv c v^axqrdc c nku o gi x^atqunc vgo r nqo vtp{c²u t³/₄kk/
 fgugp w^apc dg ku²vgm xqpc. j c xcrc k dgrg pgo r qe^amqn
 c f qn wnc0

Cw» l³/₄v xgn^ar t^au| n³/₄xg ul go n³/₄v²u cppcm c f^ad³/₄i

o qtc^lv c Hcvcn eukm m pgo ^amqw³m j cpgo qn{cp v³peqf³uv
eugngnf vgm o gi gi { naxleuj cmo o gngw. j qi { Xcf>e|
Dcrf | u c n²vgt u o ctn¹xcn ku eucmcrki d¹vc vctvcpk c i {gr n v0
T^{3/4} v³p w³pc gi { n¹n¹u n¹kgvngl gw gi { tgeuegp²uugn u c
dtleunc o kpf gp dgppgxcn¹axcnc| ^atqndc t^{3/4} Æn0

C i²r n¹ueuk ku o gi ^amqw0 R^at cuu| qp{. go dgt d¹lv nk
dgn rg cddcp c r kncpvcdep ²u gi {kmpgm u^ar cfvcd d xqrv c
n¹r g. o kpv c o ^auknpcn0

Ugo o k dcl ukpeu. ô lgrgpvgw c n¹ueukg| gv ^{3/4}p²t| gvgu
j cpi qp ô eucmc u^athqi » v^{3/4}3⁴wrg0

! u gr¹i ²tfngnu< c| k²pv o ²i o k¹vj c p²r vngp rgw
xqrc c| qtu^ai Æv c o ci c gi²u| j quu^adcp u o quv o ²i ku
euqo » go dgt xgt f^{3/4}v ^{3/4}u| g c nctco dqn u| p¹j gn²p. o k¹vgi {
xct^a| u Æ²utg. U v. j qi {cp. j qi { ugo. o ²i n¹v n¹en¹uv¹meu
| ucpf^at ku qw vgo gw. cm¹teucm o gi u| ci qn³m xqrc. j qi {
cm¹o culpv^a lwnu| k¹v²p u| Æn²i ngj gv0

Ngj v³dd go dgt d^a o ²u| n¹qf xc p²| gw0 C| qnqucddcm
c| qpdc c| ^atqndc hqtf wv n¹ueuk n¹4 Æn rt>d^a ncm u| qti qu/
n¹qf p¹0 C dtleun¹v j co ct n¹ko gn²m c n¹v v³peqn» eukm v
ng¹qi v³m ²u c n¹ueuku Xcf>ee| cn gi { Æw vi {cpeucm v¹rtc/
^amqw00 cm¹ dclc ugo gugwgi {kmpgmugo 0

ô J^aix K¹v¹p# ô h¹j^au| n¹qf vc gn o ci^a v c u¹f^au» ô
o gtv j c o quv c nctqo cv v^{3/4}go xqrc. Rgvt n ngngw xqrc
u¹f^au» v j q| c¹vk u| gi²p{ v¹cu^a i pcn0 F g o quv ukgu¹Apm L>un¹#
ô cl^a p¹qvc l» n¹rgmgnc n¹ueukupcn0

Eucnj qi { n¹pp{ xqrv c| v o qpf c¹pk fg ngugt¹xgu x²i tg/
j clvcpk o gtv c | ucpf^atqm cm¹f²n¹qun¹qf vcn0 O kpf gp^atqp c| v
h¹t¹v³m j qi { nkxqrvj kd^a u c f q¹qi dcp0

ô J^av ugpnk ô ^ancr¹qvc o gi Xcf>e| Dcrf | u l»
n¹rgnmgn ô o k kppgp l^{3/4}w¹Apm g| gm qppcp p{cti cn¹cm h¹g¹pm
²u xcnj qi { ^{3/4}u| ghctcnw¹pn0 J qi { c n¹xcm wi t^ancm ett>n nk
vgj gvA U gi²p{ n¹xcm pgo l^atcm v³pekun¹qf dc. j qi { qn{cp
r qpvcup nk w¹ l^a mu^a o¹ q¹cpkc n¹r²u0

ô O ci c j eni cuuq. ô v¹tnqnc rg c u¹f^au» v c | ucpf^at/
n¹r rct ô cm¹qt dgu²ngp ngpf. j c n¹tf g| Æn# Mk xqrv c
n¹ueukuA

ô | p ô ^amqwgn L>un¹0

ô F g ²p j clvqwo ô ^ancr¹qvc o gi c| ki c| u^ai qv
Xcf>e| 0

ô U »xcn ngpf qnq| vc c dclv ô xqrv rg cdd>n c x^afcv
c | ucpf^at.

ô Ugo o k qn{cu. ô ukvgw c u¹f^au» x²fgrn²tg c n¹ueuku

ô c| cw» qnc o kpf gppgm o gtv cpcm c dgtgi²ug xcf[¶]qwc
o gi c eukm^{nc}0

C uqth t o gi gmgpng| rgi c nqeu^anf[¶]qwc qfc d pdcn/
pcn0 C |ucpf^atqm lgi { | n[¶]4p{xgl vgm u c x²i²p nkj kfgw²m
c| gtgf o²p{v<

ô C| cw» vx^addo gj gv o ci wm o gi ô wcnem c n[¶]v
ngu| kcv{chkc ô h³nc dcmtc#

ô Xci {ku o k ku o gj gv[¶]pmA ô lgi {gl vg o gi c u[¶]a u»
o gi n[¶]4pp{gdd[¶]Av[¶]n[¶]rgmng|

ô Xgn[¶]pm l³ppgm c h u| qri cd[¶]»u[¶]ite ô njo o cpf²tq/
|qwc |ucpf^at0

ô Ok²itgAô n[¶]x^apeukunqf qwXcf»e| Dcn[¶]|u0

ô C| v o clf o gi n[¶]v^aqn0 Oquv o^at u|»v ug v³ddgw#
! u u| gi²p{ go dgtgmpgm eucmvi {cp f[¶]u| gu dgxqpwn[¶]udcp
xcrc t²u| An0 m gn n c dcnu^p. c n[¶]v |ucpf^at o gi h³4w |³4v
u| wtqpp{cnc j^au» An[¶]ugp0

ô Pq L>unc. ô uAi xc c u[¶]a u» qfc c nqeu^kupcmô kn[¶]gp
Àko »f ugo xkwgmo²i gpi go vgr[¶]gu²rgvo dgp0

Eucmvi {cp c h u| qri cd[¶]»k jkxcvrdc n[¶]i²t²m ngy0
C hqn{qu»p xci { gi²u| »tcj quu| cv rgug²m c perqv xgn[¶]Am
o [¶]i rnp x²i tg uqttcngt[¶]Angn0 C |ucpf^atqm o^at crcr qucp
nkqmcw^am c u| cm[¶]n[¶]eu h d[¶]»v c vgr[¶]gu ki c| u[¶]i k^ap{^a/
dcp. o gtv c nkj cmi v^auwnev pci {qp m[¶]v[¶]te u| cdvc.
o qpf x^ap0

ô Oci wnhwqwc mppgnk| cw»pcmA

ô Fgi qi { . ô d^avqtnqf qw ³4gi gdd r[¶]v²tg Xcf»e|
Dcn[¶]|u c h d[¶]»xcn gmgpng| pk ô o gtv ki gplu c| cw» h[¶]wqw
pgm[¶]pn0

ô Oci c v[¶]p c nqeu^kuA

ô C nqeu^ku²p xqrp²mô lgrgpng| gwL>unc0

ô Fg pgo o ci c j clvqWA

ô Oqpf vco o^at c |ucpf^atqnpem ô u|»nw n[¶]4 dg c|
ki c| u[¶]i n[¶]gf x²²tvXcf»e| ô j qi {²p j clvqwco 0

ô Cmmqt o ci^av v[¶]qu j clv^au²tv j cv r³pi r²p| d[¶]pv/
v²utg [¶]v²rgo 0C nqeu^kuvr gf ki hgm gpvgo 0O gi²tvwgA

ô Ogi ô j ci {v t^a hgl²veu»x^anc c u[¶]a u»0

ô ! u xcp xcrc o knk[¶]ji^auc gmgpgA

ô Xqpc. kp[¶]v[¶]njo . h d[¶]» At. o gtv pgn[¶]go c| uqm r²p| .
ô n[¶]ugt[¶]gf gw pgnk Xcf»e| Dcn[¶]|u ô cpp{[¶]tv o quv j cv go /
dgtpgmo gi n[¶]mj c[¶]pk0Dk[¶]qp{ Kvgp#

ô \ uk^ap{. i c| go dgt# ô wi tqw cddcp c r[¶]kr[¶]pcvdc
o ci^ad»nnk[¶]ng[¶]xc h d[¶]»0

ô P g o qpf lqp qn{cv. h d¶» À# ô crñ|cvqunqf qw
ul gi²p{ go dgt0

ô | ngxgu|²n{gu hgp{gi gv²uugn o gt gn wgo gn^ancpkA
J cncvcp# \ ucpr^at# ô qtf¶qw nk c| clv»p0 ô O ci^av rgeuw/
ncvqo 0

Cddep c r kncpcvdep r r gwdg c | ucpr^at0

ô G|v c| go dgtv rgeuwnlc ô tgpfgmg| gw vrg o²tgi i gn
c h d¶»0 ô Cfqm²p pgnk gn wgo ¶| { ul go vrgpngf pk00
C| kn{gp nqo ku| h^avgtvo »tgutg ngm vcp¶c pk0

| u c dqrf qi vncp go dgtv. o²i o kgn w pci { | cxct^ad»n
o ci^aj q| v²tj gvw xqpc. o^at xkw²m ku0 O knqt c nqeu ku o gn
ngwgñ crcf v. ul qo qtnqf qwul ¶|xgnul »nvqf c pgnk<

ô P q. L»unc. ²t²v n vg o^at kn{gvA o qpff o gi qwj qp
c hrgu²i go pgm j qi { gu²tg pg x^atlqp j c| c0

Rgf ki o²i ku gi²ul gp o^aunr gugw c dqrf i. o kpvgo
i qpf qnc0C nqeu ku wi {cp grkxg Xcf »e| Dcrñ| u ul qo qtA Æ g/
pg²v c hrgu²i²pgm fg cttc pci { hrgñtf wñ u nñxgng| gw
Mgu| p0C ncu| p^at^ai cunqf » o²ti gupg t^{3/4} v^{3/4}p nqeu kdc xgvvgw
o ci^av²u n j crñ n dcp p{cti crv dg c x^atqudc0C h d¶»v ngtgug0
V x² vgw w³pc o kpf gp hñu| gtv u c ncu| kp»dcp vñ nc o gi
c x²i²p0P gnkku tqpvqwo kpf l^atv<

ô O kvo xgn²n vg ul gtgpeu²vrgpA

ô J c o gi o qpf qf. cmñt²p ku hqi qo wf pk0

ô Ngeuwnvcwf c u¶^a»o cv²u o quv pkpeu. nixgn o gi /
eukp^ancuuc0 c|²p ul gi²p{ xqiv wco wqn» r k j gp j gn²v0
Gtgu| vgf nkt^{3/4} v^{3/4}pA

ô P go rñj gv. det^avqo ô x²f gng| gw ki c| u^ai c wf cv³ /
dcp c h d¶»0

ô | u ul cdcf wf pqo. o k²tv pgo rñj gvA ô ul qt¶qw c
l»det^av^avc ncu| p^at0

ô O gtv c xkñ i rñi ul go gpul gf gw gdd i c| go dgtg. j k f f
gn pgngo. hco 0 Vwf qf. o kv o qpf qw. o knqt j cv r gpi tg
dÁpvwgo c dwc netco dqñ^a2tvA

ô P qAM¶^apeuk^a vgu| ki c|^ap0

ô J^av det^avqo. c rñi ekpknwucdd ul kpvu²i i gn dglrgp/
vgw pgngo. j qi { co kw dqul Ad»n j cv go dgtv nk hqi r wul /
¶|c pkc xkñ i d»ñ0Gw²no^at qñ cvA

ô J c pgo ku gwgo²u j c c| c| go dgt c xkñ i rñi pci { qdd
| uk^ap{c xqpc. cmñt ku c| v o qpf qo pgngf. j qi { h²n^at^ap
dgnñ nktgu| vgf. o gtv mñ^{3/4}p dgp v²i gf vgu| rñm hrgn u² c|
gi²ul x^ato gi { g gn w c pci { unepf cno²tv. j qi { J »f {
Cpft^auvpgo wflwmngno gvpk0P q. rñu|. xci { pgo rñu| A

ô C| dcta vqo eucm Ai { ngj gv j c Ai rgtl³4x² vgnv euk/
p^a nwpn0 O gi^a ncr^a mwm vgu go . j qi { pgo hmqw pgnk c|
cw»pcm jcpgo c n² p² n rnx wpm dgo qpf^a uc ul gkpv
2rrgp hqtf^a xc v³4v²pv= c| 2rgxgul² n² gu hgp{gi gv² u² v r g f k i
c lgi { | n³ p { x d g p x c r c o g n { g u v u l g r f f g d d u l { p g l g w g n ^a m f l w m
dg0 O gi grⁱ u l g n x g r g A O g t v d c t^a v q o . j c p g o k u u l g t g v g o c
u q m h q t o c n k^a u v f g t c i c u l n u f q o c | k i c | u^a i j q l 0 | u c | v Ai { / g
v g u g o x g u l g f t q u l p² x g p v r g o A

ô D^a p q o k u ² p . c n² t o k v e u k^a n u l . ô n g i { k p v g w n g u g t
u l » x c n c n e u l p^a t ô ² p e u c m g i { t g n² t r g m c | v c | g o d g t v
u l q i ^a n e u f o l e n d d c n g l g o t g 0

ô C n² t o k p f l^a t v h c o 0 I { g t g x g r g o # i { n g u l v c r² p
c n g i l q d d 0

Xcf>e| Dcr² | u d³4v³ p c l v l^a p r g f k i e u k n q t i q w c m w e u
p g o u q m² t c 0 C d^a p c v d c o g t A n v ³4 g i g v h³4 x g l g w² m c h d f² »
k q f^a l^a d c 0 O k n q t n³4 A p² | g w . c u l c n² m e u h d f² » o g n g w q w
r² v c o² i c n² u l g k n e u l p^a t v k u 0 C d d » n p² o k d^a v q t u^a i q v o g t f²
v g w . j c p g v² p h³4 n c n e t p^a m c n e u l v c p k c | v c r² p o² i k u u l » v
v c r² n g o g p k o g n g w g 0

ô J c n l c / g o c i c X c f » e | D c r² | u . ô n g l f v g c h d f² » ô
o k x g n Ai v c p A m l g r g p v n g l v g m c | q n p c m l g r g p² u² d n n k v g u l k n
j q i { p g o k u o c i c . j c p g o c e u k m » m x q n c m c j k d^a u c m c | q m
o g p v g m p g n k c | c w » p c m o l² t v k u c o c i^a t c n k t » w d A p v g² u v
v³4 r² u d g n g n g w j q l p w p n 0 O q u v e u c m c o^a u k m x^a f t c x q p c v n q /
| » r i n g m c o c i c x² f g n g l² u² v o² i r t q v q n q m w o d c v g p p k
O q p f l c e u c m o k x k w g t^a o c i^a v c t t c c x g u l g f g m g u n k l g r g p /
v² u t g . j q i { j c v g o d g t v h q i g n g p p k r² d c n » n j c c | v c j e v
r g p i d A p v g² u v o g i o w u l^a l h k g y p k A

ô J^a v c r² | c v e n n² t g o . v e n k p v g v u h x f² » A t . e u c m c |
k i c | u^a i 0

ô X k i {^a | | q p . d c t^a v q o ô r t » d^a n v c x c m q o^a u v g x p g m
u g i f² u² i² t g o g p p k l » c n e t c v e n c h d f² » 0 ô V c r² p p g o k u Ai {
² t v g w c f q i q v A

ô R g f k i ² r r g p Ai { ² t v g w g o . ô e u³4 n³4 p { ³4 u n³4 ³4 v
X c f » e | ô j e v g o d g t ² r g² d g n g t A n c | ² p j e v r g p i u d A p v g² /
u g o . k i g p k u . o g t v Ai { v g u² m x g p p k j q i { ² p u l g i ² p { u f² ^a u »
x c i { q m² u o k x g n g i { u f² w^a p r g p i p² n v³4 d d g v p g o n e r q m
j e v g o d g t v n g m c h³4 f c r² f w i p q o . o f² c j e v r g p i v d g w f q o
n g t g u p k 0

C d d e p c r k n e p e d e p c n e u l p^a t c m n q t c n e e c l t c i { A l v q w
j q i { u l k p v g t g p i g p k n g l f v g m d g r g c h e r e n 0 C h d f² » p c m r g f k i
c p p { k t c r g g u v c | ^a n e . j q i { c p { k q w u l^a l^a d e p u l² p^a u l g n f t /

tgn ku o gi ngj gvgw xqpc hqtf wpl0 O knqt r gfk i c neu p^a t
nleukv o ci^a j q| v² tv o^a t. qf ci^a r gw c|^a tvcwcp n² r r gn euw
eL² m² q| » Xcf » e| Dc^a r | u j q| . x^a n² t c vgw lqddng|² v. o qpf x^a p <

ô I tewa^a n² m ¾ gi go . g| v j^a v r qo r^a ucp nko ci { c/
t^a | w0 Lwco wn c J » f { wcu^a i u² l^a pcm o gi^a u^a uc hgl² dgp
j cvr ¾ pi v wcu^a mnkn² p f p g m j q p c r 0 O gi xcp xgrg g² i gf xgA

ô J c c h d^a » Atpcm² p² eugp nk^a i^a uc gmgpg² u pgo ngm
o² i j q p c r ku c m² v t d g p A p ¾ o . ki g p k u o gi 0 J c p g o c|^a u » v
ku o gi ngmgpg gn dd xgppgo . vgnk² v g v u A t 0

ô Cnmqt j^a v lgt A p m c| q p p c i # ô nctq^a v dgrg c u² f^a u »
nct^a d c o grgi d c t^a u^a i i c n c neu p^a t² u xg| g p k ng| f v g
nk² g i² 0

Xcf » e| Dc^a r | u u | » p² m² A n g p i g f g r o g u n g f g w e u c m c
m² A u | ¾ d² p hqtf wv xku| c. ² r xg c i { c p A r g t t g n j q i { c h d^a »
v c i^a p t q u u | p² x g p v c i^a d c x g p p k v r g . j q i { c | g p i g f g r o g
p² m² A n² | { u | p² m² A n² v² x q | k m o g t v c | v c i^a p A l v² 4 x² p { u² t v² u
ngj g v p g . o g n² t v o gi k p v x c r c o k d^a v g v² u v f k m² r p c j g i { k d g 0
O k x g n c | q p d c p c h d^a » u | k p v g | c x c t v c p p² | g w w² p c . c u² f^a u »
x c n u^a i i c n o gi u c l p^a n c² u c | c l v d » n u | g i f f . n² t r g n u | » x c n
hqtf w v o² i h g i² l g <

ô J c o gi d^a p v q w c o x q p c . p c i { q p n² t g o . v g n k² v g v u
w c o . d q e u^a u u q p o gi p g n g o . o g t v² p p g o c n e t v c o u g o o k
v² 4 x² p { v g r g p u² i g 0

C| w² p r g f k i o g p v . c o g t t g c neu p^a t xg| g w g 0

MQ\ OC CPFQT

3: 83/3; 55

CP VCGWUC DQNVDCP

.. tgi ugi ²f Àt l²p{gu Ñ ngvdgp
O clf kf g rkddgp. o clf qf c ngddgp0
Mku| qri ^andw| i »p hqn{x^a uvpcr guki .
U| ³xgvgvdqpvkw.
P {^alcu u| »vqpvkw.
C u| [¶]xgu²i gvkn{gppgmhgvkn0

P { i ³u u| gu²n{g x^a u^a tn» p npgm
Uqugo | cxctlc r gtetg ugo vo gi 0
J q| kn{gp o kp^v v. o gi qn{cp o kp^v v.
P ci {qp cl^a p^{rlc} ô
P go n^{gm} ô uclp^a rlc.
Mgt[¶]vo ²i ^v4ddg00G| v^gu| kmkpn[¶] ddA

O kp^vÀ² u l²thku^a o qvugo v² u| gp.
J ³i { Ñi {hgrnpgmi ²r gi ²u| gp
Rgf ki . j c wf p^a m o kpvx^a t tg^a lc.
J c dqmpcmx² i g.
Mku hgru² i g
| u T^a nqu o gpvkp{ctc[¶]eun[¶] lc#

O k[¶]f cngw eun[¶] v[¶] u| gtgl v^g ft^a i ^a p.
J Ñu| ²xko w[¶]nc u m[¶]r qti ^a u^a t^a p0
Uxcp qmc| »vc ³4³0 tg. dÀc#
U t p n^{gm}f qmqt.
M o [¶]xgu. r kmqt.
~ j . c vgo ²tf gmtgr ctcvÀc#

U²r ku o gi l» ku c nku o gp { geung.
 J cpgo v⁴2 npp { . n²p { gu c vugv0
 | u ul²r ku. l» ku. c p { ctcn» ku.
 Fg j qnkvdqo rkm
 J qnco qwqo rkm
 Tqpvc c ul²n ku. gu ku. j » ku0

.. tgi ugi²fpgm p . n²vpci { i qpf lc0
 f o c xgx nppmngnl vpgo o qpf lc
 Fgo p c t l³4dw » i p ul ccul vlc.
 Gul g m²pp l^at^ao
 C T^a nqu v¹a p.
 M²vngf xgpe n²peug vknup ci i cul vlc0

C | gi { kmx²i gwngmgwc o^aukm
 Uf qni q| pknngmo quv²tv²ntqi {^auki 0
 Dvgi gu p pgmf qmqt tgp²gng<
 Ncn²mul cdcf dcp.
 I { »i { p² xcp cddcp.
 Qwner gt tg c vugv/rmg0

~i { vcn²ndvn o k³4ul gi { nvqw.
 Mknngwxgppko kpf gp hqt kpvv0
 J kf gwgmcr t»p gi { p { ctcn»eun²v.
 ~ | qpf Au i²i gn
 X² | gn²i i gn
 P ci { l³4gpf l²Avu eucm²leukv » eun²v0

C | »c m²pp c T^a nquqp rncpcm
 M²4 gn²i² dgp xcu²xqpcpcm
 P {^a tqp k | cf xc. v²rgp o gi l² | xc.
 Fg xk² Amt²ku xcp.
 P²i { l²lvnku xcp
 Uxcf ul n hwhgnc n²eukj^a | tc0

.. tgi ugi²f. j c gu²pn²pveuwnpcm
 | rnf ul p²xngngt²pci { vpcn0
 Mqtqo u²4²vxc. o kg n²tj gv0
 P {^a lcu qwj qpdvn
 J clpcrdcp kpf w0
 J^a vdk² gi { nku² j clul^a u gl²rv0

F g o kvuclp^a n^a m^a pgo uclp^a nlc0
 V³/dd c dcl^a p^a npgnk c d^a lc0
 P gl² pgml»vvgu| ô u| gpv[~]ñj ku| dgppg
 | u j c pgo xqpc
 C| c nku nqpc.
 P ci { u^a i qu At ³/₄ugj qnugo ngppg0

F g m[~]pp c ngf xgu nku p{ cten»dcp
 T² u| gu g e[~]p dgp. g h³/f kl»dcp.
 O clqtqu p² r gm^{ku} vgnk^m¶ { gp0
 J gv^f ng xgx tg.
 Xci { e² i lgi { | tg
 G| ² tvpgo p² | uqj c k^{ki} { gp0

Eucm^ver c^vvp{ k o ² i ku<xcp h³/f lg.
 O² i ku xcp j^a | c u gi { m^{ku}ek| ³/₄f lg0
 T[~]Äi { gvp² i { h^a lc u^a o^a tc j clvc
 Uo knqt xk^a i qu.
 C| euqf cd^a lqu#
 Gi { u| gt n² vcm c ku vgtō gwtclvc0

Mku h^{ng}u² i g eucmgi { gvgwo gi .
 Lwqwc u| gddknc dqmh p³/₄ppgn0
 i Lxc vgtō ² ugo ë ô gl | gn[¶] { j »f qiv
 Ud[~]Äu| ng xqrv^a lc.
 O knqt i c| f^a lc
 C| vo gi f^{ku} ² tvg. j qi { ki gp l» xqrv0

U l» ngukmp² nk d^Äuwpkpci { dcp.
 J c p{^a tk² i . xci { vxcu| khci { xcp0
 Dqndwnnkwm^{ep} c| clv»^t2 ugp
 Uo k^{pv} j qm kn^t tqu
 —tkci t^a tqu
 U» j clvc<[~] . ² p u| gi ² p{ vgtō ² ugo #

.. tgi ugi ² f pgmnku p{ cten»lc
 ~i { ² ngvngf x² vu| gt| k² u »lc0
 Dqmkpci { o w^{pn} v[¶] { n³/₄pp{ gp d[¶]lc.
 Xqpcw^a t^a udcp.
 Mku dgl^a t^a udcp
 Gt glg pgo hqi { . ngi h^{ng}l gdd | u[¶]lc0

Vgto gvg ncteu^À2 ng f gr[?] p ku.
 G²tvô v⁴/dgm[?]4 vô kki {ngo² p ku⁰
 Kki {ngo ngf x² v. h[?]ti g dw[?] i cm^a v.
 ©f g l» rgm[?] v.
 Mleuk|³/f vgm[?] v.
 H[?] kxk^a i^a v. o gi ô c n[?] vcm^a v⁰

Un[?]k^a pqo o kpf gp tqdqvo wpm[?] upcm
 Dqnkugi² f pgmu c| qpn[?] r o^a upcn[?]
 Cf l pgn[?] km[?] kvgp gi { ngx² u|³/f gw[?] ô
 Upg eucmrgi x² i [?] Ñ
 Gi { j cm qp d² x[?] Ñ
 J cvn[?] dp { ko² n[?] hgngvg h[?]/f gv⁰

I f TFQP[KI | \ C

3: 85ô 3; 44

CP P WUMC NGNMGO

Cppwunc ngmgp#

U| gtgu| /g gpi go A

U| gtgu| /g gpi go u|²r n³4²p{ xk^a i A

P g p²|| ug lqddtc.

P g p²|| ug drcic.

P g p²| f < o gi r¹ v g c| k ki { xk^a i 0

Cppwunc ngmgo #

Eu>nqnl o gi gpi go #

Eu>nqnl o gi . j c c u| ¶kgeun²f u| gtgv#

P g p²|| ug lqddtc.

P g p²|| ug drcic.

Eucm j wp{f rg. eucm j wp{f rg u|²r
n³4²p{u| go gf 0

Cppwunc ngmgo #

Eu>nqnl o gi gpi go #

J c²u| t g x gu| ku c|² f gu cp{^a f <

P g p²|| ug lqddtc.

P g p²|| ug drcic.

O k p j c c p{cmgpf o ki c| ¶cp^a f 0

HGUV C HCNWP

O c. c j q i { n k² r g m c| w e^a t c. n¹ v q o . j q i { c i { g t g n g m
o k p f c| c r k² i h g r² h w p c n 0 O g i^a n ¶ q o c D w t w e l i { g t g m g v
j q i { o k v³4² p 0

ô Gi { Àt xcp c hcnw x²i²p. ô rñj gi k nr ktqucf xc ô nr r gveulp^a rñ

Gi { qn{cp Àt. cnk nr r gv eulp^a nA P go rñj gv gi {²d. eucm hguv OO ci co ku ttchgrñ p²| vgo OEucnj co ct t^a ku cnrf vco 0

Qw Æw c rkdcrñi gn p. c h | l² m n²/₄ 3₄w0 Gn wg gi { nku j^a tqo rñ dÀ hguv^a nx^a p{0 O³/₄ 3₄wg c M²/pe| 3₄n Rknc j cf qp^a / u| qw c dqv^a xen j qi { v³ xqnc tvuc c i {gtgngngv0 C| qm rgtul g h²/₄o^a u| vcm c l² tc= qppcp rñvgm j qi { n²u| Æn c euwf c0 Mk j kwg xqpc. j qi { qn{cp crt» r^a rknñ mcn k² rkm c nr r gvA Gi { j² vo Ækc o kpf gp i {gtgmhguvc hcnw dcp0

C hguv hcnvnu| nrg go dgt xqnr. chñ rñ j quu| Àj clÀu| Àp{qi / rñi² p{. co kp rñv o kpf gphgrñ rñj gv rñ vpk p{^a tqp c| qtu|^a i dcp0 C hgl² p u|² rñumetk^a lA r wj cnrnr. c mrd^a vlc o gi d^a tuqp{/ d»nxcn». qnu| qu0

Fg o ci {ct hKÀ xqn0 Co kpv hki {grn gl vgw² m j qi { c vpw² l³/₄ p. rñvvgw c| geugv² v² u h²/₄ rñgn0

ô T²| Krx^a p xci {qm ô o qpf qwc ô O Æpej gpd n l³/₄ vgo j c| c| u| tg. gi {p² j^a p{ uv² f kwo qveulp^a rñmkvj qp0

ô J qi { xgv f³/₄ vkf g. c o knku grñ gl vgw hcnw pndlcA

ô O ci co ug wf qo 0 L^a tqm lqddtc/dcrtc. co gttg c u|² n j qtf0 Vcpwi cvqn0 O² i gi { jgk kf o xcp. c| v³ p xku| c/ o gi {gn0

ô Vgu² mhqn{ vcpk vnf p c|² tvdgu|² ni gj gv Æpn0

C t² vpgm gi { fctcd^a v hguvgw. c j kf cv. c p{^a tlf v. o gi gi {p² j^a p{ h | l² v. c x² o gmrv0 H²/₄ xvgw c| geugv² v² u h²/₄ r h²/₄ r knrpxc hguvgwqx^a dd0

ô N^a u| km ô o qpf qwc ô j qi { kv o² i uqj cug l^a tv o ci co h² rñ go dgt0 C hcnw vrg xcp u| gddp² n'ul gdd vcpw^a p{/ hglgn fg cnñ tñpgm u| »nco gff ki. j qi { rñi {gp o qf gmgo . klgf vgp vknrcq| qw0

ô Kvgp wf lc. o kv² tvpgm c o qf gm u| »p0 C o ci wn p{gr² p rñmc| qmncndgu|² rpk l» hguv vto co 0

ô Dgu|² ngo² p c| p{grñ Æñ²/₄ p ku0 Gi { dctpcnñ r hKÀeunc x² i tg rñm² f³/₄ vgi gi { j cvqu² tv c h² rñm² v. fg c| v ku gr² kw² m v rgo 0 C| v o qpf v³ m pgnk< ì Pg gpi gff c nr r gfgv o gi tqpvcpk vq quvdc# Æ² { j^a v pgo o ctfv gi {²d. eucm c| vpcm cuh | l² n0

ô O clf ugi Æ² gm² p c dclqp. eucm vgu² m o gi o wcvpk co gn{ kngvhguvgpkn² x^a plc0

ô Pq. ô c| v o qpf lc gttg c| geugv² v rñ² xg ô gi { 3₄ gi d^a euk rñ wco . j c| v rñhguvj gvp² o . pgo cf p^a o gi { qtu|^a / i² tv0 C pgx² v ku wf qo . xcno k M² x² uk xci { Mgr² uk< pq pk<

gfhnglvwgo 0 U²r jclm^w ci i go dgt0 C jclc euwrc hgi²t/
u²i0 C| ctec o gi euwrc rktqu^ai0 Euwrc u| p c| c|
go dgt0

ô MgxkA

ô C|. c|. Mgxk0C vgo r m^o o gmgwrcnk0

ô J^aveucmvgu² mdghglgl pkc n^r r gv0C| ¾gi Āpkhqi 0

ô Fgi qi { ku hguvm kw v³ldg# ¾¾m j^a n^rtc n³4grgl .
wtco . j c c| ¾gi gvc r go | rko tg lwvcvc0

Gtcmc c j qm k^a vu o gpv^apmgi { gpgugp Mgxk² nj gl 0

C| ¾gi c| wfxtqp Ām gi { hc^vpn³p. c| u| k pcr pcm
uwi^a txgt² u² dgp² u r k^a | qw0 Cj qi { cp c| clw^p dgr^r v^apm
h³4n cnetv^v o cu| nqf pk j qi { gr^r pm l³4l³p. fg² p o^a t o guu| k n
u| »nco pgnk j qi { o ctef lqp. m³4³pdgp xkuu| chqtf w^apn0
G| c hgp{gi gv² u l»ngugw pgnk0 L»ngf xxgn p{ Āvqc t^a pequ
¾gi ngl² v² u o gi ku| qt^a vqc c o k² pngvhcvcuqcp0

ô G| c| Āt ô o qpfqo c hguv tg o wcx c ô qn{cp
go dgt. cnk n^r r gngv wf euk^a rpk0 Fg pgo ko kn{gp/co qn{cp
r cr ktqu^r r gngv^a o. j cpgo ft^a ic. u² r. h³4qo n^r r gngv.
qrllcr0

ô QrllcrA

ô Kgp. o k^ovc vgo r m^o dep n^a vj cwc ngpf c u| gpvngv0

ô Pq. fgt² n0

ô J^a v pgo gi { d² tv l³4^apm Mgxk d^a euk j cpgo j qi {
ngpft nku n^r r gvul gtgvpg gl c| Āt hguvpl0

ô Pgo xci {qm² p u| gp0

ô Pgo ku c l² tv. o k^o vj c u| gpv xqpc nki {gr^o gf. j cpgo
o gtv gi { qn{cp pci { n^r r gv cnet hguvpk co k^o uqm o ci {ct
go dgt rgu|. j^a vngpf ngppg c| gi {kn0

Mgxkd^k cm cvcpwmp² | gwtg^a pn0

ô Gl. ô o qpfqvc ô ¾gi xci {qm² p o^a t ettc= kw
xcppcmc h³4k0 . c| qn^v hgu² n0

ô | r r gp c l² tv. o gtv ¾gi ngpf. ô u| »rcv o gi o qucp
c hguv ô c l² tv vgu| km pgng0 Gi { r ktqu^r r q| ui^a u J qtp² tv
euk^a r p² mⁿki {gr^o gf d r0

ô O leuqf cA ô f w| cpv hgn c| ¾gi ô j »j² tv cnetpcm
dgn ngo euk^a rpkA

ô Fgi qi { j »j² t#ô euk^r r qo c| ¾gi gv0

ô Gi { J qo² t pgx i ¾¾¾ ô o qpf lc c hguv 0

ô I ¾¾¾ Āô u| ¾p{gf gl kmo gi k^o v Mgxk0

ô Pg² tvugp l^r r t g nki {gr^o gf. eucm c n^r r rgu| c|. ô
d² n³ hguvgo o gi k^o v c| ¾gi gv0

| u ettc i qpf qnco. j qi { d^a teucm gr² o wpc gl c hguv

gi { pgi { gf »t^atc0 C| qpdcp c| ²p hguv o o kpf gpn^rr r gp ugi ¶
vpgkenctvc t^adgu² r²u o wpn^ll^a dcp0

ô Cpp{k c| gi²u|. ô o qpf qwc ô j qi { c nki { gm gf
hgl²j gl o gi hrgn u| cni^amveuk^a nqn0

ô P q o^at c| v r g f k i pgo euk^an c| Àt. ô hrgng c| ³/₄gi
j ctci quep ô ku²³/₄ c| wtcv f g pgo gpi gf go 0

ô J cni cuuq. wco. ô o qpf qo c hguv pgm ô eucm
²p j c f f dgu² ngn0

C hguv gttg ng^Àv pci { d^Àucp c m^Àni x^atc. ²u gn u| gf vg
c| geug²v=c tq| | cpvr cl^v vng| f vg hguvpl0

C j^a| d»n o^at gmqt gn l³/₄gm c| cuu| qp{qm ku0 C| qnj q|
hqt f wnc0 0

ô P q p²||g. cuu| qp{p²p²o. ô o qpf qo Mgxk²pgm ô
o k{gp euc^vdcp xci { wpm kwg0 G| c hguv Àt gr³/₄w o guu| g
h³/₄f t n j qi { c o k hcnpndcp gi { r^at n^rr gv hguv0 C ngi u| gdd
i {gtgnv. c ngi u| gdd cuu| qp{v o gi c ngi u| gdd ³/₄gi go dgtv
cnetlc nghuvgpl0 | p pgo vj gvm t»r. j qi { Mgxk d^aeuk
¶²ng c ngi u| gddpgm c| ³/₄gi gm n³/₄ P go cnet xgrg gi {gdv.
eucm j qi { Àr³/₄p gn vg gi { nku hgt^vn{»^aki. f g Mgxk d^aeuk
pgo cnet0 Rgf ki o k{gp fleu u²i ngppg qw c m^Àu qtu^ai
dcp.j c n^hÀ i gu| vgp² c n^rr gv. c| v²p c| vo qpf cp^a<

ô P²||²vgm eu^au^atqm o gi nk^an{qm k{gp u|²r r ktqu
³/₄gi go dgtgm ²ipgm c o ci {ct h³/₄f³/₄# P q. uqm fleu²tg v o gi
^a r^a u^a u^a mpc c Mgxkd^aeukhgl²tg00²i c| Àu^ai dc ku nkvgp²n0

ô J^av o R²tv pgo gpi gf k o ci^avÀ ô u| »nv ngf xgu n^rtrg/
r²uugnc| ³/₄gi cuu| qp{0

ô Qwc hlcvc. ô hrgnv xcrc kxgn gp{j²ddgp c| ³/₄gi ô
x²p n»d»npgo xc» r qtqu| n^lveuk^a npl0

ô Fg d^av^ao wco. cj qxc ³/₄gi ngm qw pgo ^anj cv o gi c
hlcvc0 O kv u| »nc ngpf ctte. j c U| gpv R²vt cr quvqv j wu| qp³/₄
gu| vgp² u ngi²p{pgmhguvgp²n0

ô P kpk c rcl^vpn# ô nk^anqw c| Kó tg ngi²p{ c hguv
o ³/₄ ³/₄0

C rclvc eucmwi {cp qw u^ati^amqw o^at c hguv x^au| p^ap0
O²i c mjo dqu pci { fl»hc ku qw ^am0
C n^rr c| ³/₄gi pgmku vgu| gw0

ô P q l»n xcp. ô o qpf qwc ô euk^arlcpem dgn ngo cni t/
o kdqmpf q0C vcp¶» Àt ngf x²²tvo gi vgu| go 0

H³/₄mqw²u c u| qdc hgr² kpf wn0

ô Cc f f gn c| Àppgr n twj^ao cv. ô o qpf vc c hrgu²i²pgn0

ô P go ngm hgr³/₄ p³/₄g. ô u| »nv c hguv ô j ku| gp eucm
c hglgvhguvgo ng0

ô Helgo gvA J^av c| v̂p o kn(gp ngu| gm²p n̂| . o gi f̂ d
p²m̂A

Kpvgwo c ĥuv pgm j qi { j cmi cuuq0

ô -i { ngu|. d^av^ao. ô o p̂pfqwco ô o kp̂j c c| cd̂rm
d>n p²| pg n̂ĥr²0 Cnk c| we^at>n n̂ v̂c n̂ki { gm̂ gf gv. pgo n̂ v̂
j ĉlc ug n̂g|²v. ug n̂ d^av. ki c| /gA

G| v o gi²tv̂wg c| ¾gi. fg c|²tv o²i ku dgo gpv²u ĥn/
¾v¾v¾v c| Appgr k twj^al^adc0 C| ¾ ngmg Æi { fkn^anc gl<
j c n̂ghukm c twj^al^av j c pgo . o²i ku eucm Appgr c| c| >tc.
co gn{ dgp o gi ¾¾¾n̂kn0

NgArv c netquu²ndg²u o q| f ŵv̂v̂cpwn o ĉtcf v̂0 f v̂pi gf v̂g
o ci^avc ĥuv²upgn0

C| ŵf xctqp^a j f̂ĉv̂qu eugpf0C ĥuv d̂k̂ v̂qu²u i {qtu n̂|| gn
ngtgn̂k o gi c x^au| pqp c ĥg j ĉv̂ txqpĉk=c| qttqv. u| go gv²u
dclw| v ĥf̂t̂p{²n̂rlc. c ĥglv xcf i gu| v̂p{gu| p̂ u³/4²vgn
o^a| qrlc n̂¾ Æi0

ô O^ap n̂g| f fkn ô lgi { |ko gi c euk| o cf lc c n̂gt²ugp
^av̂j cl̂q̂xc ô fgo²i pgo ĥqto^alc0

C ĥuv eucnj co ct o gi r̂k̂q̂f̂lc c| cteq²u o gi ĥj²t̂k̂
c j ĉlc0 C t^apeqm o²i pgo n̂ v̂l̂ cpĉm u| p̂ĥq̂rv c| gi²u|.
fg c|²tvo^at c| ¾gi M̂xlp² ¾u| geucrlc c n̂g|²v0

ô Lcl p̂nĝo. kn(gp xq̂rv gl gn w j Æi| gu| v̂pf xgn̂#
C| ¾gi M̂xk pgo d^aplc. ĉn̂to kn(gp xq̂rv gl gn w j Æi|
gu| v̂pf xgn̂=p{ ŵi qf v̂p r̂k^a| kn̂c netquu²ndgp0

C p²| gi {tg v̂d̂d²u v̂d̂d c| ŵf xctqp0

Dq| >n̂p² ku dg²t0 U| qo qt Æ nku uq^ap{ cuu| qp{0 P go)
ŵf qo . o k̂tv xcp o c ĥngvg Appgr k twj^adcp. fg cd̂dcp xcp0
C v̂d̂dk̂ cuu| qp{ĥr̂g. j c d̂gr k̂mpv ku. eucnj co ct c f̂q̂ri^atc
ulĝv0C| c| gi { qwo ĉtcf. p²| kc n̂r̂gv̂ĥi {ĝnĝo o gn0

ô Okv ĥk̂ ĝv̂pgm²tv̂gA ô ŵf ĉn̂q| | c uwŵqi xc ô o gpp{kv
ĥk̂ ĝv̂pgm̂A

ô P k̂p̂k̂ v̂ĉf̂p eucmpgo ĉnetlc o ci^av̂n̂r̂ k̂p̂i^ancv̂pk̂A

ô Qj . K̂v̂gp o gp̂v̂gp. f̂ĝĵ qi { ku. eucm²r̂r̂gp n̂t̂f̂go 0

ô Ugo o kv. ô ĥnĝrk̂ M̂xlp² ô ugo o kv ug ĥk̂ gv̂p̂m
eucm c o ci c o ŵv̂ŵd>n ĥguk c| ŵtco ĉv̂0 Fg Æi {/g o^atku
ĥqto^af| kn0

ô Ogi pg d̂kn̂gp̂v̂g n̂gp̂f c ĥÂrk̂v. ô u| >n̂c n̂gt²ugp n̂¾/
p{¾am̂ euk| o cf lc ô o quvc| v̂n̂gpkn0

V̂ct̂lc c| ¾gi c ĥÂrk̂v p{ŵi ĉm̂ cucp0

C euq̂f^am̂q̂|^au p ŵp̂/p 0 Ĉr̂ki gi { p̂gi {gf>tc o Æ̂xc
euwr c d^ao ŵi u²u p̂gx̂ĝv̂u c| ŵf xct0

ô K̂i(gp. ²r̂r̂gp kn(gp#

ô P q. ngpf nřu|gt xcp c xkři qp. Mgxk d^a euk ô
o qpf lc c euk o cf lc0 J c nřu| rgu|. hgrncu| v^a m ngpf gv ô
lgi { | ko gi c dcmgt0

Gttg o^a t c| 3/4 gi gv ku grj ci { lc c p { wi cmqo 0 H⁴ mgn² u
qf cvq { qi c nř r j gl 0C hgl² vr t » d^a rlc0

ô Kř(gp xqrp² nA ô o qv { qi lc l » ngf x gp ô pq. kř(gp
xci { qn0

ô O² i pgo gi² u| gp. ô hgrnk c hguv ô j qrp c r o gi kp v
grl³ x³ / n0 J qrp c r c o gi u^a tcf² u c | v³ p l³ p eucmc dk⁴ o 0

ô O kl³ pA

ô P qj^a v c u| wtqn0 Dgnpggo kw/qwu| wtqmn r f0

ô Gpi go A

ô P go ngpf gv. pq = eucm c | ^a tp { ² nř v. j qi { o² nř gdd
nři { gp c u| go g. d^a v^a o wtco 0

C | we^a p Dq | » nkp² l³ v o kpf gp³ v c uctm v p n d cp0

ô Ngmgo. l » wtco. ô u | » r c v o gi c j f p^a r f0
C | v³ p. j qi { o gi^a mwp m³ u | gv g v c nř v n gl² v0

ô U² r gp o gi nř tp² o. ² f gu nř r euk p^a n » wtco. j qi { c |
² p nku r^a p { qo cv. c | Kř p n^a v 000

ô P go wř qo. rgu | / g t^a kř o. ô hgrn v c hguv 0 ô
O gn { knc nku r^a p { cA

ô O gi j c nř. rnmgo. o gi j c nř ô o qpf lc c | cuu | qp {
nř p p { gn d gp h⁴ t f u | go o gn0

ô Gi { gv g p r^a p { c xq nř. ô o ci { ct^a | qo. j qi { c p p c m
g h w r c f q w c u | c x c ô u | ² r nku nř m u | go v g t go v² u0

ô Qn { cp. qn { cp ô o qpf lc c | cuu | qp { 0

ô Dclqu f q nři ô o qpf v c x^a nř v x q p x c c hguv 0 ô
Xcp x c r o k h q q i t^a h^a l c A

ô F gi qi { xcp. rnmgo v n k p v g v u wtco. j ku | gp ² r r gp
c | ² tvu | g t g v² o. o g t v p k e u g p0

J qi { c | v³ p gi { v o g p v³ p m j c | c h g r ? . g r o q p f v c o c
hguv p g m j qi { c nku r^a p { pgo eucm c | cp { l^a p c m x q nř n g f x g u.
k i c | ^a p c r g i n g f x g u g d d nku nř m u | go u | n g r^a p { x q nř v c h c n d c p0
V q t q n i { f i n t c i c f v c g n u | gi² p { nř v0

C | v³ p o^a u t c h q t f w v c d g u | ² f 0 C x c f^a u | c v t » n d g u | ² n v p n0
P^a n p m c | k f² p u q m c x c f n e u c0 G u g h g r ? n k k u x k v g o c h g u v v =
e u » p c n t c v n v p m² u r g u v p m c p^a f c u d c p x c f n e u^a t c0

C hguv pgo c n e t v x c f^a u | p k = c p^a f c u p c m c | g u v k nř r² v
h k i { g n g o gi = c p c r p { w i x^a u v c p^a f g t f p0

Gi { u | g t. c j qi { g r j c n i c w v p m c | v o q p f l c c h g u v <

ô J c u q p n i | q w c | c nku r^a p { c | cp { l^a t c A

ô | r r gp qn { cp r g w x q p c. j c o gi p 0

ô Rt»d^a nqm xcrcō kv. ô ul »nv l»ngf x gp ô o gi hguvo
 c| v c| cuu| qp{ v j² vgu| vgpf upgn0
 ô Ngj gw² i gu xqipcA
 ô J qi {pg# C j clc ul n²dd rgu|. c ul go g pci {qdd² u
 n²ngdd=c ul go 3/4f 3/4n² v x² nup{ cddtc hguvo² u go gngddtg. c|
 cte^a vo gi i 3/4 d³4n² ¶igo =xci { uqx^a p{ xqnvA
 ô Dk qp{ qn{ cp x² nup{ nku o cf^a tncf² ng xqrv c| 0
 ô O kpf gi {# C| ctec dk qp{^a tc vnggdd xqrv. c| ^a nœu/
 n²lc hlgvngpgdd. c| cted tg^a v² v| » hg² t² u c p{ cncœun²lc
 x² nup{ 0
 ! u pgn^a nqw o^a upcr. j qi { c j qrv i { gto gm cten² r² v
 o gi hguog0
 C| cp{lc ãnv dw i » p u pgo ku ki gp wfvc. j qi { o k² t0
 Eucm c| v wfvc. j qi { j c ãn o gi nœrlc c ng^a p{ c cten² r² v0
 J^a vj qi { pg ãnv xqipcA
 O knqt c| v^a p c n² r gm² u ãnv. c hguv gi { pci { | 3/4f ngp/
 f d nt^a o^a vt³4 v² p| 3/4vn² 4² lg u qf cu| » n² ¶qwmc| cuu| qp{ v
 C| cuu| qp{ t^a p² | gw c n² r v² u gi { ul gttg nk²4 n²4wgm c
 n²4pp{ gk0
 ô J^a vt^a 3/4o gtA ô n² tf gl vgo o gi j cvqwp0
 ô J qi { pg kuo gtp² mt^a. vcp ¶w² wtco. ô hrgng ô r gf ki
 ul gi² p{ ng pci { qp gr^a nq| qwqwc o^a uxk^a i qp0

C PCI [GHH

Xcrcō gn km ¶pu² i gu gu| vgpf w² p v²4 v² pj gvgw. j qi { c
 i c| f^a m 3/4u| gcfvc m gi { /gi { x² nœ i cdp^a v² u h²4tcm^a m c| 0
 kunqr c f n² u^a tc0 Cwœn ngl fxg cnkpgm v² rpp xci { vxccu| cn
 gihqi { qw c ngp{ gtg. c n²4 3/4 i cdqp^a d»n xgw n²4œu² p0 O quv ku
 ¶i { xcp0 C n²4œu² p v eucr xc cf l^a m vg² | xg nœrl^a m xku| c0
 Co kv c eucr »hc rxxu| c x² n² t»n c| c nœo cv0 J^a v gl c o k
 vœnt² nr² p| v² twpn0
 U gpv O k^a n² pœrl^a p xcp c n²4 i { n² u0 Cmmqt c| kunqr
 v² l² nœ l³ x /o gp go dgtgmgn p² r gu ãn o gi 0 Mk gi { | u^a m
 i cdqp^a v j ql c j^a v^a p. nk hrgv0 V³4 rgu| vppgm xci { gi² ul gp ku
 nk²4 gvkm c| cf » u^a i qv0
 Eucm c| gi { V » j Cpvcnl³ p ãtgu| u^a mœr0
 O kpf gpnk wfvc. j qi { v c p{^a tqp c l² i eu ãh² qnc o gi 0
 c| gi { gvpp cnkpgō dk vq ¶qv0
 ô O clf dk qp{ ô o qpf qwc ô n² v hqtkpvq cf qm c
 egmt^a n² u² t² 0 Gf f ki ug d^a pvqwc l² i . gl w² p ug d^a pv0

! u o gi kxc0

Rgtul g. o knqt c l2i rgeuqtf wv c| 2i d n wi {cpeucm j clk i^anc c| wf xcttc c dcn³v. o gi o kpf gp 2rgu ul gtul^a o qv. fg c l2i gu pgo klgf vgncw»f0

C nkud«t» nko 2tk pgnk c n2v x2nc dA^av. j^atqo x2nc tq| uq0| p c f f ki c| «^a uvn2ul «lgo o gi <

Cnw«f/qw n2v x2nc dA^av o gi j^atqo x2nc tq|uqv xgwgo n2v«u3/pdgc n24u2i o ci v^at^ad»f0Gi { 2x o A^anc o gi cf qo 0

Gppgm cr^lc ngm «lpl0 V3/4dp{ktg ngtgu| v lgi {gv «lpcn0 Xcp qn{cp. cnk c| v ugo «l. eucm 2rr gp o gi 2tkpvc v m ul^at^av c| v³p 2p «lqm j gn{gw0 G| c| 2tkp²u ul gp0 C| kngv pgm rmg^aul^am c vmdc 2u dgppg xcp. o «l c pgx²v r«lqo 0 Uqj c pgo v3/4v pvo gi . j qi { xcenko gi vei cf qwxqpc kn{gp cr^l«^a u0

V»j Cpcn gffki ul»wcpwn 2u ngf xgwgp A^an^amqw c| go dgtgm n24 3/4x0 U 2rgu d3/4f p{ cte^ap r^lvu| qw j qi { o gi / cr^l| qw²i qv 2tg| 0 Fg cj qi { qf c³ o cul v^am c | u^an²v c hcpem h3/4go grkc hgl2 v0M3/4Ar knr²pv²u c| vo qpf lc ngx²n{gp<

ô Cr^l«^alqo c pgxgo gv0

Xcico k v«l go dgt vcl/r^ld 2u dgu²ri gv c| kunq^lncp0 C ul»tc xcico gpp{kgp grj cni c vpcn0 C nkud«t» ku dgrf 3/4k c r^aqv c i cdqpcj cno dc 2u c rkr^al^av gn xqplc0 M3/4 grdd r^lr c| cul v²ij q| 0 N^auwm pq# Dk qp{ o 2i nkww»f km j qi { V»j Cpcn «^a uwf » go dgt#

Qfcvqo c rerkquv V»j Cpcn gr²0 C vqnev ku o gi / o^atqo 2u qfcp{A^alqo pgn0

V»j Cpcn Apprk o q| fwrwcn xgu| k^av c vqnev0 C| Apprk o q| fwr²p c| v 2tgo . j qi { o^at c r^axi dgp gn tg j q| |^aknqu| k c| wlck0 C| v³p o gi A^a { vctvc c vqnev. o k³vj c ul kxct xqpc0

C rerkqute p2| 0

ô Jci { A^am r# ô o qpf lc0 ô f mxc pgo wfwq0 Qwj ci {qo c ul 2ngv0NgA^a0C dclwul^a vx²i ki uko «l lc0

C n2vn2p{3/4n2vc| cul vctc vgu| k0

ô Jqx^a «l lco Aô n2tf gl kc f qm j j q| km nqo qn{u^ai i cr0

ô Kfg. ô o qpf qo ô c| cr^atc0

O gi o^atlc c vqnev pci { »xvqucp 2u c vqmpcm c j gi {2tg r kuni 0 J qi { o kv p2| telc. pgo wfwqo 0 Vcr^lp c vpw/ eugr r gv p2| k0 Gi { qn{cp o q| fwrwcn co kp xgn c| |^aqw nrc/ rqv ul qm³m o gi uwj k³vcpk r^h3/eugpk c vpw³v qf crv c rcf/ n2c. c| v³p o gi k³v pgnkn2p{3/4n2n 2u ncuup. xki {^axc. c rerkqudep o gi cnef q| xc. r«^al gi { xcuci nco »lA o gtgf v pci { V dgv v0 C ul^at^av cnwt»n h3/4gr² j A^a| c 2u gi { r kpf wtnc

r^apvkn¹v eulp^an t^a0 C| ¶ { o gi o wpm¹nv j »tlj qti cu dgv xgn
o gi gr¹i gf gwp¹gm r¹v u| kn⁰ H¹n ku xgu| k c dcn ng¹ 2xgn c rkr^al^av
gi {gv u| kr¹cpv. 2u Àtc r¹vgu| k0 C| » dgv jcuq¹p¹n¹r¹gp
r¹guk¹gt¹À⁰ Kc|. jqi { c V dgv j³/₄ n¹r¹g¹uv qn¹cp r¹le¹p|. o k¹pv
c v¹qtq¹{j q| n¹r¹g¹uv c j qtf » cdtq¹peu 2u ugo o k³/₄u| gv¹ctv/
| c¹pf »u¹i pgo o w¹cvu| km c ngw n¹4³/₄w fg c| 2tv l »n xcp c| 0
Hqfqt Cpft^au gi { cwl¹p/c# u| »xcn 2u hgl¹dkeeg¹v¹u¹gn hgl¹g| k
nkt^a c| gr¹uo gt²u0

C rkr^am o gi c| cteqm h¹i {grgo o gn jcl¹nc¹pcm c| cu| vn
h¹4⁰ V »j Cpft^au c| qpdc¹ pgo Ñ {gn tcl¹qn⁰ Jcto cf km
dgv pgm o gi k¹pv gi { k¹w| cvqu pci { V dgv v n¹ep{ct¹¶ u| k¹pv
o gi ugte¹gp dgr¹ c n¹rc¹o vu0

Pq fg k¹vo gi ku^a n0

P²| 0Xcnet¹k¹pvgi {gv¹ctm¹l^ap0

O gi o^atlc. n¹h¹æug¹pvk c v¹mc¹0 U| ¶v¹gr¹gp u| go g^a o gt¹gf
c r¹cr¹kt¹qc0

—ltc o^atv. o gi Àtc h¹æug¹pv 2u Àtc p²| cp²m¹n¹ jqi {
vx^add ¶pc0

ô Pq. ô hc¹nc¹ nk c dcm¹gt ô jc c x²i³/₄gv²t| o.
ng¹pf¹gv¹ ¶k¹qo gn²i t³/₄pf³/₄gv¹¶p{c0

ô Jc cff¹ki dg pgo ^am x¹nc¹j x¹c ¶f¹ »f¹g^a n¹pc¹m ô v¹gu| k
j q| |^a K¹vg¹pu0

V »j Cp¹cn dgr¹gx³/₄4³/₄f¹ km c pci { i q¹pf¹qm¹|^audc0 C
j qo m¹n¹p ng¹u| g¹mw¹u| c t^a p¹eq¹mv¹t| q¹n¹f¹pc¹m³/₄u| g0

ô U| gv¹lg pg r¹i {³/₄p. ô o q¹pf¹lc c v¹mc¹v o²ti g¹ug¹
r¹ge¹ur x¹c ô gr¹h¹gr¹lv³/₄wgo c pci { gh¹4[#]

U¹h¹4^{mgn}2u Ñ { gn¹gv¹| k¹un¹q¹d »n o k¹pv c j cl¹vp^a n0

—i { qm¹ »dgt x²i g h¹gr¹ v³/₄v²pv. jqi { Dwt¹el Cpft^au
o gi d¶ v Hqfqt¹v. jqi { jc o^at c x^at¹qu¹dc o gi {²p. j q| | q¹p c
h¹2^apc¹m gi { cde/u n¹4^p{xgv c h¹gr¹u²i²pgm o gi x¹rc¹o k q¹tx¹qu/
u^ai qv. quv^a vku¹j q| |^a. o gi c j qtf »m¹h¹4^vÀ¹u²tg k¹u¹i qv0

Hqfqt o gi ku²tng¹ km g¹ug⁰ Tcn¹lc c n¹4^p{xgv o gi c|
q¹tx¹qu^ai q¹vc| cu| v¹rc

ô J^avc| k¹u¹i Aô n¹tf¹kDwt¹el Cpft^au0

ô V{j l c| ^arf »l^av. ô h¹gr¹rk Hqfqt. h¹4^{ngdd} v¹u| ¶x¹c c
j qo m¹n¹p c n¹rc¹r¹l^av ô Ñ { gr¹h¹gr¹lv³/₄wgo ²p c/w o k¹pv c V »j
Cp¹vc pci { gh¹4⁰

J GTE\ GI HGTGPE

3: 85/

DQNQPF VCVf T[0

Gi { r^at gu|v^gpf xgn gl gn w v³4v²pv. 2rrgp mct^aeuq{
pcrl^ap. j qi { Fwpcopqquqt n³4u²i dgj exc|qw h we^al^ap
gi { h^wteuc m[~]Augl 2u o²i h^wteu^add xkugm^gf²u Àt^gko dgt
lgrgpv o gi 0 Gu^la pv 2u i i³4u cte^À go dgt xqn0 U go²dgp
jctci qu. u³4²v v | m^gdqi qw0 M[~]A³4p³4u u|cd^au^À fg grg/
i^apu v²rk xcf^au|twj^av xkugn0 Mg^l2dgp u^ati c nku d tv³un^lv
j q|qw0

Ugpnk ugo wf^wc. j qppcp eugrrgpv kf g c| kf gi gp0 Grk^g/
|gw^gwg o ci^av c n³4u²i j^a|^atc 2u rctcpeuq[»] j cpi qp t^atxcmv
c d[¶]»tc. j qi { xk^guug^av eu»pcn^gq Fwpc^hÀ gut^g. co gn^l
hcnw u|go dgp hgm| km Oqqquqttn c hqⁿ{co o^aukm rctv^ap0
G| c|qpdcp n³r^vgrgp n^lx^apu^ai xqn. c Fw^ap lcx^adcp |cl/
m^gw c l²i 2u c hcn^wdcp pgo cncf v j cⁿu|go dgt. cnk gi {r^at
h^gtlpv ngf x²²tv nqen^ltc v^gwg xqpc 2ng^v0 C| À gm^gqt
pci { jctci tc i gtl^gf 0 O²ti²dgp pgo eucm c rctcu|v d[¶]»v
j cpgo c lgi { | v ku vgi gl v^g0

ô O k²rg j kx^ap{ p²r rcnkm gddgp c hcn^wdcpA J^av
o ci {ctqm xci {qm v^kA J^av h²thcm xci {qm j qi { cpp{kc
h²nk^gm c tqpi {qu²ngv^gngvA

C fgt²mo qqquqt^kcm^ggo wf vcmgttg o kvx^aru|qrl⁰

ô Mkv^u|v^gl[~]Àp^mc| ÀdcpAô n²tf gl v^gx²i [~]Ànc d[¶]»0

ô Vc^vt{ xci {qn# Vc^vt{ I kf c#

ô C dqmpf Vc^vt{A ô u|cncf v nk 3^gpn²pvgrgp[~]Àn c
lgi { | u^al^ap0

C| kf gi gp h²rgn v^gugp n^weci qw0

ô K^gpku. c dqmpf Vc^vt{# C fwpch[~]À guk h²4f gu^À#
Oquv o^at wf^la^gqm c pgxgo gv 2u c|v ku wf^la^gqm j qi { c

dqurpf Vev³t{ o kpf ki o gi ul qmc vppk c|v. co kv gi {ul gt c hgl²dg xgu| (00) | p c hglgo dg xgwgo. j qi { o c^a vxg| gm c | cln» Fwp^ap²u^avku hqi qmgxg| pk000

C ul ¶kxu qixcu» dk qp{^atc wi {cpeucm kuo gtk c Vev³t{ pgx²v0 O kpf gp A^ui qixcu» kuo gtk o gtv j kul gp gul vgpf n³p^av c ncrqm^ampf» tqxcqv xg| gwgm Vev³t{ xkugv fqi ckt»r0 C ekmgmtgpf gup ¶ { ng| f f vgn<

C xcno gt dtexAtlct»nkuo gtvo ci {ct ur qtvo dgt 000

xqrv c|. cnk gi {ul gt r^atdelc j kxcvc gi { fcti qp{qu/ g|tgf gi²ul vku| vnc^av. c| g|tgf guv n c ncf²ki. o kxg c hcnw/ l^ap^awxpw» g|tgf gr²i n³p²rgvgr²ñ hntqo dk³nc v j cl/ pcrk^am^ad»r0 Gi {ul gt o gi dgu^amv c o cti kul ki gv j gn{ k j cl>dc²u o kxg c i |³u ~ dw^atc o gpv. Vev³t{ pem r gfi c| Cncf²o k/v²tgp xqrv u³ti u fqi c. tgxqixgttgn c ng|²/ dgp ctte n³p{ul gt ¶gwgc ncrk³p{v. j qi { hqtf wlpq xku| c c Fwpc n³4 gr²p0 V³id gul vgpf xgn gi gn w r gtdg ngxgtgfw Fwpcñ gu n³4 u²i²xgn cmqt hntgi {xgtg| vg d²tugkv. tqj co / o cn gihq rnc c hcnw²u nk| vg euc³fk rtdqi »l^av c hcnw/ j^a|^atc0 I qpf qno. wi {cpddcp c| gul vgpf dgp v³4v³p. j qi { c ncrqm p{¶m²tk tqxc³dep ô pgo wfqo o^at o k qnd»n ô n³i {^ax^a|vc c| gwt»rck x¶k»dclpqnqm ul³4xgu²i²pgm³4ul gu vclck0 J qi { c xgp²i n dgp j cpi qucp xkugmf ngv tgxqixgt³4²ugmgn ul qmc kf qo qu^ai te kpvpk j qi { c i {qtu/ Xqpcvq o gi ul qmc j A³pk c x²ul h²ngv. j c xcno gn{ km pgxg/ rgvgr A³k³tuc r²xgvgwg c ncd^av^av. xci { c euk o^al^av. j qi { ur gekrkvc o gi xcf wv n³xcm o gi h²ng|²u²dgp. cu| hndgv^a/ tqm o gi cn³|^au^adep²u o kpf gppgo^atx¶ / ²u v | x²ul A³i {gm³dgp. c| vo kpf gp i {gtgmwflc0

C dqurpf Vev³t{ pgx²pgm qn{cpl²ng h²ngm gyv j cpi |^auc xqrv o kv c vi tk. xci { c flpco kv ul »pcn0 P go n³gv vj^av euq^amq|pk j qi { c l^ao dqt o qpquqtcm pgo ki gp³4ñgm c xgp²i ãpgn0 Vev³t{ n³4 dgp rcwqi xc²u hgp{gi gv | xg l^atvhgn³ c hqn{co rctv^ap0

ô Vvfl^aqm o k xcp gddgp c ul cv{qtdecA ô tkñ euqnc. o k³4 dgp o gi n³d^anc ng|²dgp c u^ati c d t³v un³v0 ô O grikp0 C |²tv ul gtg| vgo. j qi { hntqddcpwco c f wpcñ gul j gi {gv o gn{ gn^atlc j^a|co gn w c nk³v³u0 0 0 J c o²tgi dg j q| vqm j^av c r²xgi dg t³4 ¶go c| gi²ul hcnwqnc# K³ul gp rgtpcj cl/ fgt/h²ul gm pgo ku²tf go rk o gi. j qi { tclvc n³i {gp O ci {ct/ qtu^ai o crr^al^ap#

O k³4 dgp Vev³t{ ¶ { i ct^a|f^amqf qw. gi { Atkgo dgt n³4 grgf gw c dgj excl qw o qpquqt p{ctcm hgn r0 C | A³lp/

pcp 2tng| gw ku grf i hgrv p crcm xqm0 C euknqti » j kf gi dgp
 nř4pp{ ugn|go ucr nřv 2u p{atk twj a v xkugm0 Mcd a lc p{kxc
 xqrv o grř p{ pgo ku xqrv tclvc0 O grng qn|cp f qo dqtA xqrv
 o kpvc mē a p0 J quu| A i 2o p{cmř p nř42kcuuci u i A kpcm
 hgu| Āngn0 Mqr cul tc p{ř qw hlg crki xqrv pci {qdd nřv 3/4u| g/
 vgw hgtlř4nř4p2 r0 \ a tm| qw nřo qt 2u u| 3/4 rvgu cte a d n nřv
 rct a p{k u| A » u u| go euknqi qw gn 0 K ugdd go dgt xqrv
 o a t. fg c| 2tv qn| ngo 2p{gp 2u rgenugp o q| i qw. o kp v c
 ce 2 r t A » m v c t c p a m 3/4 u | g v i l c k 0

ô G| c| Āt cnet a ncmo gppk c Fwpa A ô nřtf g| v|
 c| Ālppcp 2tng| gw0ô O clf 2p a ncrklu| go #

Vcřt{. cnkpgm 2rgvdqreug 2 i g c pln cfo kctk grk 2 dgp
 3/4u| rqpquwv. hci {qucp d » rkpqv c hgl 2 xgr0 C j cř u| qm
 r g f k i u l g w g x | t g g t g u | v g w m g i { d a t n i v. c | w p g x g | n g v
 o g i e u a m i a v j q | v c n 0

ô O g j g v A p n #

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

ô J q j » # ô n k n q w c V c ř t { ô j k u | g p o c i c g p i g o
 n g h g r x l u | A ř | { O c n q o u | g i t g l w w p m p g o H Ā | g u t g 0

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

ô O g i d q m p f w v o c i c A ô h c n e f v n k x 2 i Ā n v Ā t g r o g v
 n g p Ā r 0 ô J k u | g p ř | { n g Ā u | j c w p m c X c u n e r w k i 0

C o a u k m o g i k p v p g o x a r e u | q m e u c m g i { j c v c m c u
 h Ā v o c e u m i v h Ā v V c ř t { u | g o g n ř 4 2 0

ô J c n l c . x g r g o p g r c e n i | | q p ô r e w c p v h g n j g n 2 /
 t n V c ř t { 0 ô V w f l c . j q i { n k x c i { q m A V c ř t { x c i { q m
 V c ř t { F w p c h Ā | g u t r 0

C o a u k m g m q t n k x g w u a l a d » n c r k a v 2 u p { a l c u o q u n | /
 n { c n o q p f v c <

V 2 i g f k u d q m p f p c m o q p f e p c m c | g o d g t g m A C m m q t

c| 2p go dgtgo xci {0 Gpi go j²v gul vgpfgli vctvqcm hqi xc
c Nkr»vo gl p0 C| 2llgn c| qpdcp nku| cdcf wnc0 0
Vcv³t{ o gi j³mgpxg o 2tv x²i ki c| kf gi gpv0

ô J²v²xki xqiv c Nkr»vo gl pA J ku| gp l» t²x²ul v
x^arcu| vqco #

ô J qmqo ki qw hqi vcm xqpc c p{qo qtwnem jc c|
gm Æv 2llgn o gi pgo hqlvqo c| ^arqv²u gn pgo x^ai qo c
f qmqt vtn¹v000

ô C vqtn¹vA

ô O gi²tf go rkm gl v c nku d³pv²uv# C l³k vxccu| cn
o gi ngi {gm gl gm pgnkm cmqt nk^auqo ngv²u Ætc h³v³/
o cu| vqo o kpf c ngw v0

C i²o p{cm²gmmqt h³ngv²u o ci cu| vqu j cpi qp o qpf v<

ô Ogtv²p Ucl³t xci {qm c xk gm kuvpg0 J Æu| gl gt
gul vgp xgn gl gn w ul Ævgo²u o 2i j Æu| gl gt²xki²ij gvp²m
jc c ic| Eu^ao/R^a|. c hnj kuvp pgo Æf³pg 0 0 0 xgu|
v¹igw o gi c f qmqtqncvku0

Vcv³t{ ng| fvg o ci^av ki gp hvtu^ap²tg| pl0 G| c| go dgt
u³v dmqpf. n¹v cv»cp c xgu| gf gm gu hcl³d»r0 0
C xk gm kuvpg o quvj cpi qucp hgmæci qw0

ô J gi g# Oquv x²i ngi nku| cdcf wqm Eu^ao/R^a| ng|²/
d # Vwfqf. j qi {cpA C x¹| c¹ o gt³v²u o gi hci {qn0
C vxccu| cn jc gpi gf c l²i. 2p ku hgnkcf qm 0 0 0 P {^atq
pkpu j cvm c h³v³go c hnj kuvppgn0 | p o^at j Æu| gl gt
²x »c o kpf ki c l²i n¹v vgrgm 0 0 0 Gppgm n³u|³pj gvo
gt o g0 J²v²xxgn gl gn w cmqt hqi vcm gn Eu^ao/R^a| rtkd²m
lgk co kmqt²rrgp c Fw^adc cnetvo o gpgm³pk000

C dmqpf go dgt o gi kpv hgnv tqw0

ô Xgm|| ng#ô nk^anqvc f³4i j cpi qp0

ô O kpgm^aô n¹tf gl vg Vcv³t{0

ô Oci co o cn xku| ngm c Fw^adc0 O clf o gi n¹vqf. o ku| gp
ngmgo gu v²rk^amqo gukm c l²i crv# C vxccu| cn hgm³vgrgn0
J Æu| gl gt²xki hqi ul²rpkggo gi {³v#

C| t³v pgnkxgv²g o ci^av c eu»pcm hcn¹pcm²u gt ugp
j lo d^arpknj| fvg0

ô ©rl ng v³v²p# ô nk^anqvc Vcv³t{0 ô ©rl ng. xci {
j q||^af x^ai qo c o g¹pkgu v³un¹v#

ô K¹g xgrg# ô Wlqpi qw Ucl³t. c xk gm kuvpg0 ô
K¹g xgrg. j ku| gp²p pgo eucm c x¹|. j cpgo c v/ kuvpg ku
xci {qn# Ugo o kv ugo ul gtvgm cpp{k¹c. o pv c m¹dqi »
n¹pi qv c tqdcp» r wner qt# J^av o²i c fl¹pc kqv. c
o g¹pkgv# Vctwcf c v³un¹v. o clf²p t^a Æ³mc eu^am¹ xci#

Vcᵛt{ klg vgp tglvgwg c o grpkpkyv c| Ñᵛug crf0 G|gn
 c hw»dqmpffcn pgo nḡj gv dᵛpk0 J c pᵃrc xqpc c tḡxqn/
 xgtg. cmḡt nḡn jgvpḡ (00) Fg pkpeu pᵃrc ugo ok hgi {xgt.
 eucm gi { nḡ4/0 xᵃi » dleunc# C|v o qpfᵃm c| qpdcp. c
 nḡi f Ñᵛ 3/4 uḡdd dqmpfqp ku nk nḡj gv hḡj pk tḡxcuᵃi i ciᵃ0 0 0
 O gi nḡmr t»dᵃpk0

ô Uclᵛt. vḡ j cvm cu kḡgp. 3/4 Ñᵛᵃm j qi { uḡgtgpeu² o
 nḡj gv j q|ᵃf# ô o qpfvc Vcᵛt{ 2f gu hḡxqncj cpi qp0 ô
 | u dqrfqi xci {qm j qi { o ci cffcn cnetuḡ xkppk j wᵃo/
 dktqfcm cfdc# J kff gn 2xgm »c pkpeu ku oᵃu xᵃi {co.
 o kḡj qi { gi {uḡgt gi { vḡrvc F wpc lgi g crw 3/4 nḡj guugm (00)
 f m qf q| xc Ñᵛ uḡvpc c j xᵃ4ᵃ l²i ᵛ dᵃm crw. xkᵃo j crcu/
 nḡmᵃ tucᵃi ᵃ dep. o kḡ pci {uḡgt nḡj gv#

ô Pqu. cmḡt i {gt Ñᵛn# ô o qpfvc l»nḡfx gp Uclᵛt
 kḡgp. o kḡ4 dgp c nḡf kmrᵃ tḡᵃ p{ᵃtc iḡrgw0

ô Gtḡfl gn tg. o clf 2p tᵃ4 ᵛḡp nḡ4ḡvḡn# ô dkḡvcw
 o quqn{qi xc Vcᵛt{0

Gtḡc| 3/4 Ñᵛ ku gm quqn{qf qw0

ô Vcᵛt{. vḡ dg cnetuḡ eucrpk# P go uḡ2i {gprḡf o ci c/
 fcv gi { kḡgppgn ᵃḡ { nḡo kuḡ nḡf pkA J c kḡgph²n go dḡt
 xqᵃn cmḡt crf|cwen nḡ4ḡp²f rctcpeuqo cv(00) | p rḡf ki
 c|v rctcpeuqḡo. j qi { i {gt Ñᵛm gi { Ñᵛ0 0 0 Nḡi e²nḡgt dd
 nḡuḡ. j c o gi hḡj qo c vḡtnḡf cv 2u hḡḡḡḡf ᵃḡqo c eu»pcnḡq0
 P go i qpf qḡḡf A

C| t Ñᵛc nḡto ckcnc Vcᵛt{ vḡtnḡ wᵃ p nḡr nḡf qw0

ô Pci {qp j gn{gu# ô 3/4 xḡpḡḡ gw Vcᵛt{. o kḡ4 dgp
 uᵃrcfvctecno gi jᵃ vᵃ n0

C| ᵛḡp gi {uḡgtḡc j qo nḡᵃtc Ñᵛ4ᵃ0

ô Pk# ô o qpfvc ô o kḡgp hḡḡḡ²nḡp{ ku xci {qn#
 J kuḡp pḡnḡo gi { rḡtetḡ j c|c nḡm o²i wḡtcḡqo. j qi {
 c i c| fecuḡ qf{qo pḡ xᵃtlqḡ j k²dc c xceuqᵃ xci(00) J cvm cu
 Kḡgp. nḡtrgm o gpl Ñᵛm ᵛḡp o²i ku F wpc Ñᵛ ḡutḡ# Vḡ o gi xᵃt/
 j cvuḡ c eu»pcndcp. 2p gi { rḡtetḡ dgwḡtqo c nḡuᵃn{dc. fḡc|/
 ᵛḡp tᵃ4 ᵛḡp xkuḡ c l³ḡ3ḡm(00) O gi nḡvḡf. tᵃ4 ᵛḡp xkuḡ c l³ḡ3ḡn#

C dqmpf go dḡt gmḡo qtqf xc tᵃ vḡ hḡ2ᵃ0

ô Glp{g. ḡlp{g. c vḡ xkḡmḡḡ²ḡḡf pci {qp i {cp Ñᵛ#
 Vḡ n»xᵃ cnetuḡ vḡppk gi { kḡgp j cvm cu kḡgpvA Vḡ pgo nḡj ḡuḡ
 nḡ4 3/4 pᵃi gu go dḡt# Vcᵃp eucm pgo vḡ xci { c nḡnḡugo dḡtA
 Vḡḡḡḡḡ ḡuḡ vḡpḡ xḡn ḡḡn w o gi l»uḡnᵃm pḡnḡo. j qi {o clf
 ḡḡḡḡḡḡ c j cvm cu nḡnḡugo dḡt. nḡpḡm xcm ḡpi ḡḡm ḡu/
 u²i i gn vḡtḡq| qo 0 0 0 O qpf f o gi uḡkḡᵃp. pgo vḡ xci { c
 nḡnḡugo dḡtA

ô O gi hqi wcm dqmpf# ô wlpqi qw o ci^adep Vev^t{0
C| cnh²mgwvc j gn²t n²uo ci cu| wuj cpi qp o qpf c<

ô Vg o qpf^af. ²p xci {qmc j cwcm cu nencugo dgt#

ô J^avcnqt mwnqt²nqrl#

Vev^t{ mwnqt²nqrv²u c| vo qpf c<

ô Oquv o^at wfqf. nk xci {qn0 Rctcpeuqmo vj^av
j qi { xki {²nF wpch²gutg#

C| t²Av gpi gf gro gup ng|²dg xgw c eu^amm^av²u c
rctv hgr² k^ap{²qwc c eu>pcnq0 M²dgp l²r²pm xk| wrgwgn
ucpf²qwVev^t{ hgr²<

ô Jc w xci { c j cwcm cu nencugo dgt. cmqt j cff
j cnlco o gpp{gkj cpi qf c#

ô Jku gp jc eucm gl ngm pgnf# ô i qpf qnc Vev^t{0
C f wpch²guk rctvq³u| geu f²ngm c| go dgtgn0 Xcno k
pci {qp hwtcuc fqi qv r²wcn0 Eu>pcm n²dgrf gw c l²i| clh²/
uq^av c eu>pcm qtt^ap gi { kpi wltc xgm|³av go dgt^amqw
c hct^ap r gfk² gi { o^aukm go dgt. cnk u| cnfcwcpwn mwnqt²/
nqrv. n²dgp ²i hgr² go gng qtt^av²u c n²v netl^axen eucr nq/
fqw. o kpv nencu c u^atp{^axcr000

O knqt o^at gr²tv²m c rctvq. Vev^t{ gi {u| gttg eddc/
j ci {vc c mwnqt²nqrv²u gi { j cwcm cu wi^au^aen m²App vgt/
o gw c rctv l²i gp0 Cmnqt vgnkpgw eucm xku| c. o knqt o^at
hgpp xqrv c v²av²ugp0

C dqmpf ²r r gp ²atc v²o w c rkr^al^av0 O knqt hctncu/
u| go gv p²| gw Vev^t{xcn c hwtcuc o gtgx cte^ap m²Av³u
o quqf xqpw²x²i ki0 Oquv wfxtkcucp o gi go gng ucr ml^av
²u²q² { u| >n<

ô Gpi gflg o gi. Vev^t{ ²at. j qi { o quv o^at nqo qn{cp
dgo wcuco o ci co cv0 Tcpcm> Dgp p{wi f²cu uqtj cl>j cf/
pci { xci {qm 0 0 0 C|²tv j q| wco ³pv^av c Fw^ap. o gtv o gi
cnetwo i { |pk j qi { cnfj cv go dgt. cnk o²i lqddcp
u| ko w²rlc c dqmpf qv o kpv³p#

U>n²u eu^amm^alc w^ap p{²atc. gncu²qwc eu>pcn^av
c rctw>n000

C r^atdel. o gn² j cto cf per tc c n²v ²atgo dgt n²d
nghn²v uqmmen^atwcwpedd xqrv. ugo j qi { ²tf go gu xqrp
t²u| rvgugddgp o gi go r²ng| pkt>n0

C\ WQNU —TKGO DGT,

! llʔ n wʔ p vczk^a mv o gi c t^a euqu ncr w gn w0 Gi { nʔk²t
 hcvn À ngddgp nk nʔpp{gf²p0 Qn{cp pci { dqttxcnv cfqw
 c uqh tpgm j qi { c| l» kf gli j kgvgr An d^o wnc c vgr{gt²v0
 C| wʔ p i^a | vcf qw c mjeuk gr^a i vqw c|² lu| cnf dcp0

C hcvn À dgrʔ r gw c uʔ²v ngtvdg0 J clcpf qph w xqr
 u| o qnpi qv xkugv² u xcuci u| kctv vctqw c u^a l^a dcp0
 J qm» f qmqt xqr c pci { J qm». c| Qo gi c tgp f gl lg. xkfi /
 o^a tne0 Depngw n lʔp. cj qn À pci { hkr l² pgm Nwnt² | k
 Dqi k^a pcm xkfi ukng² v Äppgr gm² n0 Mleukv hgrʔ p³/w c i ctevc.
 fg eucm mleuk² r r gp cpp{kc. j qi { u² r pgm vrf rlc c|² rgvgv
² u u| gkgkc| go dgtgngv0

C ner w»n c xkr c dgl^a tv³ ki v| gp³/ r² u0 C v| gf knp² n
 j kvrgp o gi^a mc f qmqt0

ô J cm»#O kc| AXcp qwxcrnkA

C hw»t»| uc/nvi cudcp eucmi {cp uʔ²v^a tp{²m Än0 O quv
 dk| qp{ vcrpwnhʔ/4go gmgf km² u p² o^a p o gi j clqr0

ô Mleuqf c o ci cAO kA

ô Cu| vcrqu I {ʔ/4i { . o² n| v| vrgwgn ô tgdgi k c|
^a tp{²n0

ô ! u o kvctet kvc nvi cudcpA

ô I qpf qnc o . pgo^a tvqm ugnkpgm j c kv x^a tqo o gi
 c tgi i gm00

ô U »xcn j clif mcrpA

ô C t² i k rnf uqo d»n nk nrgwv o gppgo . Älc v o² i pgo
 vrf nco 00

ô Okc hqi rcmj^a ucA

ô Mqo qtp{knxci {qm lgrpvg o cif| cwr0

ô Mlp gmc nqo qtp{knlcA

ô Rkrpcvp{kre ugnk²0 Ogtv nʔtgo . c nqo qtp{km
 r^a n| c rj gv u² i gk pci {qp o gi eucrrcpvnc0 Gi { nqo qtp{km
 eucm Älgo dgtvu| qn^a ij cv² u j qnxppcmo c Älgo dgtgmA

ô Vrf p gm³/n³/4 vgm c i »n^a mnen gi { Äw00 Fg gtt n
² p v³/4dgvku u| gtgp² mj cmcpk0l34lʔp xrgo . Cu| vcrqu Ä0

Mvruqv xgu| nk c |ugd² d n² u cff ki f³/n³/4 k c| clwv.
 o f| dgrg pgo vrf n c |^a tdc0 Qfcdgpp mcrct^a u| i cv c hcrp.
 o clf xkrp{ncr euq» ncrwp. o² i gi { clw² u o² i gi {
 ncrwp^a u. x² i Än r c| ctwn xkfi i f| qw pci { u| qd^a dep vrf rlvn
 o ci vprnc0

, Rgnk J f| ncr 3; 63 f gego dgt 47/knkul^a o^a d»n0

ô C j^a | cv pgo t² i k d g p x g w g o . ô o q p f l c J q m » ô
 gi { gn tg eucm c n g i u l ã m² i g u g d d d ã q t q n e v u l g t g l v g o d g 0
 *C n g i u l ã m² i g u g d d d ã q t q m n³ v x c p g i { ² r g v p c i { t^a i Ì
 d^a f q i n x c i ² u M q n w o d w u U c p v c O c t k¹ a p c m n k u g d d ã g w o^a u c 0-

C j^a | k i c l f c c i { ³ p i { u l p n³ h g n j p^a v o g n l c u l g o g
 gn w n e x c t q i . r k u n j x c u l g o i r k c x g p f² i² v 0 C o c i c u . u l k
 n¹ t g o d g t . n g j g v x c i { ³ x g p² x g u . g i { d t i c n² t q u r q u l » /
 n e d^a v q v x l u g n o k p v c n p f q p k u l c d » m n k^a t » m i e u c m n u p /
 v k p g v³ r k u c p i q n¹ k o k² v t q m u l^a o^a t e n² u l p p g n 0 C j^a | k i c l f c
 gi { ² d n² p v o g i u l g r r g p . o g t v C u l v e r q u w t c o h e r v p g p j c u q p /
 n¹ v J q m » gi { n u t k q u l v³ n h p³ n² t g . u l c n e u l v q w q n c p u l k
 i q t Ì² u k i c l t^a i q u O F g c l² t v d t e p f { v³ v p g n 0

ô V g j^a v j q i { c p k u x e p c f q n j c n u o q t p { k n u m e n A
 C l v o q p f l c . p g j² | g n j g n l n g f p k A R g f k i ² p Ì { w f q o .
 c x^a t q u v e r k x e p Ì i c l f c i q m e n c l q m d q m p f w n u l » t l^a m c
 r² p l v 0 0 c l k l g p g n p g m d k q p {^a t e n u o q t p { k n k u n g n 0

ô C p c i { t^a i q u Ì Ì k g o d g t g n p g m v e t l c c l Ì i c l /
 f c i q n e v A

ô N^a v o . j q i { o c i c p g o 0 X^a l l q p j^a p { u n g m c j j q l
² u j^a p { o k r k » . j q i { o c i^a p e m x e r e n k Ì k g o d g t n i { g p A

ô D q e u^a p e v . p g o c u l Ì r g v² u² u p g o c x c i { q p v g u l k
 c l Ì k g o d g t v j c p g o c l g m g o ² u c l² t v g r g o 0

ô G l v u l² r g p o q p f v c . C u l v e r q u d^a e u k f g o q u v o c i { c /
 t^a | | c o g i p g n g o . o k g x c n » w r c l f q n n² r r g p c l Ì k g o d g t A

ô U g o o k g u g o x c n » 0 I { c n u t r e v k j c u l p e p k e u . o k n² p v
 u g o o k p g m u k e u . c o k u l² r . p c i { u l g t ² u g i { g f Ì n¹ m » 0 O k
 j c u l p e x e p c t » | t^a p e m c u l k x^a t x^a p { p e m x c i { c l q t q u l /
 n¹ p p e m A J c u l p q u c m t w o r i k ² u c l k i^a u n » 0 0 C v³ t u c f c n u o .
 n² t g o u l² r g p . n g x² u u l^a o Ì n w z w u / g o d g t v v g p { ² u l v n k o c i^a /
 d » n c n k n p g m c l c n³ v g r u u² i Ì m j q i { d k q p { q u n k r t » d^a n v
² u d g x^a n v³ x² p { g m u l g t k p v² r l g p g m x l u g m g f l g p g m ² u i q p f q n /
 n u l | c p e m m n³ v g v p f r² r f c i { c p^a p v r e d g i p g m c v³ o g i
 h e l g h³ v w . r g t u l g u g p n k u g o n³ v g k n g v f g c l² t v o² i k u
 l » . j q i { x e p p e m o g t v g i { o c i c u c d d t g p f ² r g v n g j g v u² /
 i² v x g v l m d g r c x c n » u^a i d c 0

ô C l v o q p f l c . n k x g u l d g p x e p p e m A

ô C l v j k u l g o . o^a t n k k u x g u l v g n³ C o c k n u t p g o v t
 Ì k g o d g t g n v 0 P g o c n e t u g o o k v . c o k g i { ² p k u g o o k v c o k
 n Ì v p d³ k m c l^a v c i » n c o k p g m t k n e u^a i k d g e u g x c p 0 M³ v g /
 r g l c l . c o k q t f k p c t² 0 Q t f k p^a t² g o d g t g m r g t u l g c l g n w k u
 x q n e m f g c m u t u l g i { g k v g m ² u r g v c i c f v m o c i w n e v 0 O c
 c l q p d e p f k x e v q v o g i i { | f² u v ² u x k i i p² | g v v e u k^a p e m

3/4o ci wnd»r0 Qtf kp^a t²pcm rppk ul gpv lqi . u v n⁴grgu²i ku0
C| gnu xk¹i j^adqtÀ kf gl²p gi {ul gttg tgr gf²u o gpv ngtgul /
vAn c| go dgtk²i gp. pgo wf qo . o k²v²u j qi {cp. fg c| wcm
Ài { ng| f vgm xkugm²pk o kpv c eugr²f gm000

ô G| gn ul go dgp cnef pcm eugr²f gm cnkm Ài { xkug/
ngf pgm o kpv c| Àlgo dgtgn0

ô C pci {u^ai qu Àt o wcv^ai qupcm vci¹dc. j qi { ²p
qn cp nqo qn cp xgu go c| Àlgo dgtv0 Vgu²m gj kppk gl
pgo ul pqdu¹. j cpgo n²w²i dggugw tci cul nqf^au c| ²ng/
j gl 0 Ogtv. n²tgo cñ| cwcñ ki c| k nqo qtp{km eucm cff ki
ngj gv co ¶ ki c| k Àlgo dgt ngu 0 O kpf gp hqi rcmaj¹ uv ngj gv
v³/ddh² rgn²r r gp hqñ vcyk< ngj gv v³/n²ngvu ²u nppv¹t o »f qp0
Cpccm j qi { xcrcnk v³/n²ngvu ngi {gp c nqo qtp{km ul cm^a /
dcp. xcpcem mAnu ²u dgu hgn²vrgl0 C mAnu m n⁴2 vctv/
| km c v³/n²ngvu Àlgo dgt0 | p r g f ki xci { ki c| k nqo qtp{km
xci {qm xci { gi {^ancñ p pgo xci {qn0

ô O knqt xgw²u tg. j qi { gñqi {pcmc| Àlgo dgtgnA

ô C o^a uqf km i c| f^a o p^a r0 C| gnu o gi j cm. c o^a uqf k
ncvqwngngwj ci {pgo . o gtv hgru²i Anxgwgi { v³pequp v0

ô P c. pg t²o ¶ugp o gi 0 —tgo dgtpgm pgo ngj gv n⁴g
v³pequp j ³4 A

ô J qi {pg ngj gypg. pci {qp ku ngj gv. j ku gp v³pequp m
c| ²tv xcpcem j qi { c| Àlgo dgtgngv o wcvcu^an0 Fg hgr/
u²i An xgppk¶ G| qn cp ¶ gwgp vAn^au. o kpv c xcrcnk c
ewnt^au | o j gn dgp xgppg rñ¹uv. o gtv m²g xgrk c| ²f gu²i gv0

ô O ci c hkuj »hwu²u o²i ku xcpcemgn ¶²ngvkA

ô J qi { pgng o xcpcem¹g. c| gi {^ancñ p pgo hqvqu.
Àlgo dgt c| qpdc pgo ngj gv gn ¶²ngvm p²mAn0 C| v o qpf /
j cv^ao < c| Àlgo dgt pgo gi {²d. o kpvgn ¶²ngv0

ô J^ap { j gn gp ul qn^a nvo²i A

ô O kpf³u¹g o²i p²i { j gn gp f qn i q| vco 0 Fg ugj qn
ugo xqn o ctf^auqo 0 C| gnu v c| ²tv j ci {vco qw. o gtv
vgwp ²tvgo . o knqt c rxxgrko n⁴v wtn¹n0 C| | cn i {cpÀ/
u¶qw. j qi { j cu pqv j À qm c dgx^a u¹ tñ uqnd»n ²u dk qp { ¶²/
nqnevngtugw0

ô Tgo²rgo . pgo vci¹nA

ô C|. n²tgo . j qi { gi { ul gi²p { j^a | vct³uk cmem c /
| qw o gi t³kl ¶k c i c| f^a l^a v gi {r^at r gpi xgn pgo hqvqu
f qñi . u v pgo ku gngv²vgu c eugr²fo qt^a rñr0 Fg j c gi {
gn ngn À Ài { xkugm²km o kpv gi { tqul eugr²f. cmqt ugo /
o kx² vgu kc| Àlqu v³ n¹ r² vcr l^a v0

ô Mxqn c| knv A

ô Rectf qp. pgxgngv pgo go rñgm pgo xqrv ki c|k
Àlgo dgt. fg²p ki c|knqo qtp{knxci {qm wf qmj cmi cpl0

ô | u c o^auqf knv o k²tv jci {vc qwA o gtv h²ngul go .
c|v ku o ci c jci {vc gnA

ô O gi eucnc c wrcf qp hrgu²i²v00

ô C hrgu²i²vA | u o ci c c|²tvA Pc jcmc# J^av o^at
c|vugo ul cdcf A

ô -i { . cj qi {cp wcu^ai qf i qpf qrlc. Ài { ul cdcf. fg
c i c|f^ao o^aun^rr eucn0 R²p||gr0 Gi { ¾¾m²i gp nngw
qu|v|plqm²u cmqt ô pq. fg lqdd. jc pgo dgu²n²pm gtt n
c j kx^ap{u^ai t>#

ô | u c jcto cf kmA

ô jgtegi xqn0

ô | u o²i ugo Xqrv Àlgo dgtA

ô M^v v²xli o gi gum²vgo xqrpc. jqi { c| qtu^ai gu
i cxcn²tlc. o q² dng pgo ngxgtf gw c rqrkkn²dc0 C ngi/
tcf kn²rkudd r^atj q| eucv²nu|qw. eucm c|²tv. o gtv o kpf gp/
^atq²tx²p{gu²pk cnet0 Xcf wn wu| q²qc x^arcu|wkv. ul q²qc
c ¾o gi ncr|uk^ai^av²u i { n²gv²v0 O gi i { | fgo . jqi { eucm
h²rtg²t²ud n jgtegi 0 Pgo jku| ugo o kdp. ugo rqrkkn²dcp.
ugo c p²r dgp. ngi ngx²udd² ¾po ci^adcp0 J c c jgtegi pgo
jku| ko ci^at>n jqi { Àlgo dgt. cmqt²p o k²tvj ki {lgo A

ô Vgrlgugp ki c|c xcp0| u c| wqn> i c|f^alcA

ô H²r²xxgng| gn wjci {vco gr0

ô C| qmA

ô .. uul gxgu| gw c hrgu²i²xgn co kdp c o²n>u^ai qu
cuu| qp{ xqrv c d p³u. ô c| w²p o gi kpvnk²n²vxgr0

ô J ku| gp gl ul²r# Mgtgu| v²p{ v²grgo 0

ô K gp^ao. fg c| cr>upcm jcto kpeg| gt r gpi l²dg
ngt²nc nkd²m²u0

J qm> fqmqt gddgp c rknrcvdcpc cmqt^av^au²q²w. o kpv
gi { j²o qtqu| n²p0 C nqo qtp{kn²u|tgxgw. jqi { c| cdrcnup
o^at dgp²| c n²mj clpci0T¾¾ ¾p h²ngn. hqi vc c ncr r l^av0

ô Dque^apcv. o gi {gm c pci {u^ai qu Àpcm ku l> ngu|
nghm²plg00

J qm> h²go gng c o wcv>wl^av0

ô X^atlqp o²i0 Gu| go dg lwqw xcrc0 k0 P gngo o qu/
vpc^adcp gr²i ku| vgu²i gu l²kgf gm go xcp ô u v pgo vci c/
fqo < pci { l²kgf gm go xcp. ô fg c|²tv o²i ku Ài {²rgm
o kpv gi { eki^ap{dt^aeu^au. c rñuqo r gfk i xcrc>u^ai qu kv^am>0
Rgf ki l> xqrpc. jc xcrcnk tgpfgv vctvpc kw0 0 o ci c o quv
^an²u p²m²nc xcp 00

C nqo qtp{km hgmer v c hgl²v< ô J qi { ²p vci³p dg^am/
lcmkf g nqo qtp{kmcmAP go . pgo . ô c| pgo ngj gv000

ô | u wi {cp o k²tv pgo A U| gtgv²o . jc u| kv²p o gi /
o qpf cp^a . o k²tv pgo ngj gvA

Cu| vcu gn u| ³/₄ c ek lg j gi {²v p²| vg. o clf c nœr lc
d²r²u²v0 Fg c| v³p j kvngp h³/₄go gng c hgl²v ²u gn^apvcp
o qpf v<

ô Dqeu^apcv fg xcœnk cnk j clpcrdcp gi {Aw r^arkp/
n¹| kngi { nqo qtp{kmœn c| pgo Àkgo dgt#

U »n. nqo qt cteecn o gi j clqn. o clf pgu| vngp r¹r vœmgn
nkquqpvcl cl»p0

J GNVCKLGP

3: 93/

RCKRTQU

I {gto gmqto »c tclqpi qm c vku|c rcrktqu²tv. c| Àl
 vqn²tv. c| ²r egtw^{a2}tv. c u| grn vgp vqmu^at²tv. c| ¶^au
 u|gtu^ao ck²tv0 U| gpxgf²n{gugg i { lv^{3/4}o ^{3/4}xgp ²x »c0 O gi
 ugo o gtgo u^ao n^apk j^ap{ wecv ²tkpvgvvp egtw^av. j^ap{
 u| | kn^av. h^agvgv. pqvqu^v ²u dmqmuv jcm^o q| vo i cto c/
 f^adc ¶«cu| vno ²u u| gnt²p{gko u^{3/4}v h^onckdcp0 C rcrk/
 tqut»n pgo ku u| »mqn0 Vknqu tem^atcko dcp u^a| o gi u^a|
 o kpf gpl²rg gtgf gv. pci {u^ai À o kp u²i ²u u| ¶p ¶x uko vn
 gi {o^autc u| gpv ²tkpvgvvp²i dgp0 Xcp n^{3/4}Am ltcpek.
 xci { p²o gv. urcp{qn ²u j qmcpfk0 Xgwgo rcrktquv Nqpf qp/
 dcp ²u \ Àlej dgp. Mqpuvcp^ar qn{dcp. U| »h^adcp. O k^ap»/
 dcp ²u D²eudgp0 Hgj²tg. u^ati^av j crx^ap{ | ^{3/4}f gv. h^opqo cv
 fwx^av pci { rcr ¶ngtgungf²ugm eukmji » nktcnv^ad»n x^am/
 icwco. c| we^ap eucvco rg t^a. xci { j qo^an{qu nku dmqm
 ekrgno j c| c c xk^ai o kpf gp t²u²d n o kpvtqu^l n^apxcf^au|
 c| gzqkvwu |u^ano^ap{v. wf»u mwc» c xcf v^{3/4} | ugm o²ti g/
 | gwp{ kckv²u hgl f ¶u²v0

G| v c tgpigvi rcrktquv c|²tv x^au^atqnco. j qi { vgr/
 ¶lco0 Gm^ar| grgo. j qi { gn xgu| go c xcf qpevÀ vqmu^a/
 tev dgrgkngu| vgo c| Àl vqmv. dgrgo^atvgo c n^am vpv^adc
²u c o cmw^avcp rcrktqute xgtugv ¶qn0 Tgi²p{v0 U| ¶pf etc/
 dqv0 O gi ¶qo ^{3/4}u| gu o xgko gv0 Tgi i grv n gvki ¶qm² l²n^a/
 v n jclpcki. lcpw^at»n fgego dgtki. nqtc k^aÀ^ai qo »n o ck
 x²pu²i go ki. l^a tcf j cvvcpw0 Co kgu| go dg lw0

Vcr^ap gu| go dg ku lwqw uqm o kpf gp. fg xcrc^o k u| go ²/
 tgo ²t|²u o kpf vpvcp rghqi v ng| go gv0 O R²tv ²pA O R²tv
 pgo o^au. d^a vcd. m^apdA T^a o gtgf vgo c rcrktqutc0 Qn{cp

j »hgi²tgp. qn{cp ul | gp hgm²f v gn wgo . x²f vgrp²ñ nku qn/
i^ancvqwp# Pgo xkw t^a c n²ngm cttc. j qi { o gi dgeuvgr/
p²ugo 0 Rgf ki ngnngwg o ci^av. h²m²p^amq|qw0 C hgi²t. c
u^ati c. c |³af. c n²en²u. c xqpcñ qw. c o gt²lgw. c| cpi qn
c h²cpek. c| gi²ul pgo | gwn²4 k j^atgo 0 0 0 i {gtg. kw xci {qn#
O gi^amco j ulgugp. ³4xgp ²x c²w cñki gi { v²gft²u²v
r wul v²qweo gn²i { n i { n hgp {gi gv gp i { n c rcr k²qu
²u hgp {gi gv gp h²i {pcmc r gtegm000

Tgo gno xgm j gn{gw gi { nku rcr²ngtgungf²uv j ci {qm
c| w »nqt²c0

HK-M#

| t²gw²i k²cn²mq| »n0

Pgo c v²xgu. pgo c j Æu²xgu0 Qu²v n²v²tucko o cn
²t²gw²i k xk²u^apm pgi {xgp³4²4 km ²xhqt²w²l^av Æppgr gn²ñk
J c wi {cp Æppgr c|. j qi { o gi x²p²ñ²pm ²u g²hgrglv²g²ñm
o k²fc|v. co kv xcrc²kn²qt wf w²p²n0 G²v pgo ngj gv n²xi cf p²k0
Co kn²qt nk²gt²lgw²ñm c| cu²v²tc c t²i k ²tv²g²v²v. gi { nku
n²t³4³o gn^ancr²q²w²mm o gi. j qi { p²qj c u²qm n²4³4v²pm
c t²g²p²n²ñk²ñm o xgn² wf »u. u v ²tv²gn² gu go dgt²< ²t²gw²i k
²v²g²g²kn²gv gi {kn²pm ug wf lc v²4d² o gi q²f c²p²k0 Pgo wf v
o^at v² ²xxgn² gn wugo 0

U²i {gp gl A | u j c c|. nk²pgm c u²i {gp²gA C| kn²qrc
dwn²q²o gi c²mq²t. co kn²qt lgrgugp ²u l »n ²tv²w²pgm o k²p u²lgw
o k²pn²g²vA C wf qo^ap {t »n fgt²ñv nk j qi { j cu²qp²rcp ²u
h²4²4²ngi gu Æ²kr qi i {^au²p^an pgo v²4d. u²ñ{qu j qo qn²u^am cttc
l » eum j qi { nk²q²dlw²ncddep c r kn²rcp²dep. co kn²qt go gm²g²pk
c²net²w²pmA Xci { dgpp²pm xcp c j k²dcA Pgi {xgp³4² ²xxgn
c| ²t²gw²i k w²p n²4²ñ²gn²ñm o k²fc| gi { o^at. pg v²4l²ñm tclv
h²g²l²pn²gv0

C| qp c n²r gp. o gn{gv c| ²t²gw²i k w²p c i k²p^a| kwo
wf xct^ap eul^aiv t »n²pm c h²q²it^ahw. v²gpp {qre ²xgugm
xci {w²p²n0 G²c n²r o quv n²| t n²| tg l^at. m²w²clw²m tclv
gi {o^auv. ³4u²lgx²gl²ñm c o Æ²ncv c o^axcn ²u h²4²h²g²gl²ñm
j qi { gi {kn²pm ug x^an²q²qw o gi 0 O²i c| c p {qre/v² ugo.
cnk c| »c o gi j cn0 Fg cnk n²4³4v²pm o c ku h²evn c| h²evn
xq²v o^at v²gpp {qre ²xgu n²t^adcp ku. cj qi { c n²r gp ku ³4gi
À o^at c|. cnk o c x²p0 Pgo ²xg²km u^ao^ap o Æ²km j qi {
h²evn²qm xci {w²pm²g xci { ³4gi gn0 C h²evn^ai. c v²g²gw²i
gi {kn²cl²lc0

Xci { ¾xgpgp^amwpm ãÑpm c euqrqtvnřr gp. ngtgul vdg/ hqpv nctten | ugdgtf wi qw nř | gn ngtgul vdgqpv nř ddcn vř¾¾ nř¾gp0 C nři lqdd nřv vcpw» c r^ar cu| go gu qu| v^anřh p^¾an o gmw0 C lqvti^ahwu j^kdc nřtv v ãÑpm dca^au^ai qu cteqv o gi kngv f^¾wgp. nřo qn{cp p²| ãÑpm o ci wpm gr² xcrcw gpp{kgp0 O²i c nři pci {qdd dgv^at. c| c o gi^avcmqf qw i c| go dgt ku. cnk c| gnu dcpngwgp rknřpu nřrgngv o wqi cvqw pgnãÑpm c| cu| ven crw. o c r g f ki wpqnř kpcm c| ctenř²xgn j kcn/ nřf km c| cu| ven hř¾¾0 J cto kpe²xxgn gl gn w o²i eucm hrg/ u²i²pgm c| ctenř²v o wqi cwc. nřu dd hckřv. o gi nřp{ckřv ku0 C| kunqnř dcp c j gvgf knlgp o²i eucm d²nř gi i { ãVgo²p²v. c p{qrecf knlcp o^at ul gtgn gurgxgrngv0 O kpf wpcrcp o wq/ i cvqw xcrcnřpgm xcrcw k0 | u pgi {xgp^¾ 2x xkj etckp ngtgul/ vãÑ o gi o ctefv eppcm cnřpgm c| kunqnř dcp kpf w0 C vř¾dkd ku0 Cnk ul go vgrgp²u j cpi qu xqnv c i ko p^a| kwo dcp. ul go vgrgp²u j cpi qu o c ku0 C eu^¾pf gu²u^am qu c| o c ku0 J c o gi ul »/ nřw m ãi { tkcf hř¾n o kpy c c v p^at ul »nřw p^a nk c nřvgt^atc hrgp k0 F cf qi 0 U| gnw p^atc^am c|²rgvdgp ku. nřppcn nři {g/ rgo d n nřlc o gi c| gr²i u²i gu0 C| gnu go kpgpu ul cncu| / vqw qn{cp r g f^apu. r qp vqu²u ul^atc|. co knřgp c| kunqnř dcp xqn0 Ngtř t>rc c l> vcpw»0 C| v c d²nř gi gv. o gmřgn o²i ul ãrgv²uãÑpm gn w o gi lgi {gl vgm pgo o quuc rg t>mwpm ug uqtu. ug kf 0

Hř¾hki {grgmc l>řř . nřf xgu wpu| qnř utc<

ô K {wpm hãÑ#

HãÑ# Mřř²tvkgu ul » c| ¾gi wcm v^atuc^ai^adcp0 O²i / ugo ãvř¾ ãÑpm o gi tclvc0 O km xci {wpm gi {o^aupcm j c pgo hãÑA Eucnř fcr^am pci {cr^am nřj nv ci i nři²p{gm c|²rgv/ dgp gn^axqmf wpm gi {o^au»n0 0 0 f mco vknřt ãt. ãi {x²f ãt. r tqhgul qt ãt. nřtrgm crřuucp o²n»u^ai qu wco 0 Mk Rgu/ vgp. nk xkf²ngp. nk kf gi gpdgp. mãÑř¾ř¾p0 | xgnki pgo nřv lwm gi {o^auv²u j c vcrřm q| wpm ku. cmqt ug pci {qp dgu²nř i gvãÑpm 0 0 0 ul gtxwul . ul gtxwul . j qi { xci { nřtrgm xci {qi c/ vqm nřtrgm nř| eu»nřo²u crř| cvqu vku vrgvgo c nři {gn gu. o²n»u^ai qu. pci {u^ai qu cuu| qp{pcn0 Fg o kpf gp ¾²xdgp c j quu| ã cu| ven o gmw hãÑ xci {wpm0 G| c| gi {gvgp j kg/ rgu cf cwpm c vř¾dkd n0 Uqtuwm ul gtgpeu²lãÑ i qpflwm^am w m vřqm ul^ao wpntc0 Kc| k l> dca^av nřx²u xcp nř¾ ãpn0 Fg c|. co k qnř gn²rj gvgvãÑ gi {o^auj q| h | o kngv gt / ugdd c dca^au^ai p^an0 D x¾u ul ». xct^a| uki g0 HãÑ# G| v eucm o k o qp f j cvwm gi {o^aupcm nřo qn{cp. o gi i | | f²uign cp²mãÑ j qi { gi {o^au ul go²dg pgxgv²pn0

HkÀn# Mgi {gro gu HkÀn# o²n»u^ai qu. pci {u^ai qu HkÀm
 nyr cu| HkÀm hgj²tu| cnf mÀ gl ãrdclwul À HkÀn0 Go r²ng|²/
 uÀpm o gi^amv c|²tgw²i kp²t0 C|»xc pgo v³/4v²pv ugo o k0
 Co knqt c|v qrkcuwm c| Àu^ai dcp. j qi { ft0 Ugtgi²n| Nclqu
^amco vkn^at Àt o²n»u^ai c t²u| xgw c o kpkul vgtgp³/4m xcf^a/
 u| cv²p. pgo c| gn ngn² u j²gu r wun^auv r^avwm j cpgo c| v
 c xknqj »u| go hngvg nkukÀv cnkv c| gi²u| qu| v^an| kki {gnv
 c|²tv. o gtv dcm²|| gn ku tgo gm²Àn hqi ngi {gv0| u co knqt wi {cp/
 cddep c| Àu^ai dcp c|v qrkcuwm j qi { c xqrv \ qtf K n^a
 n^ax²j^a| xqrv wrcf qpquc j cwcpj^atgo²xgu nqt^adcp c
 h²rtggv j gn{gp h²rcncul vqvc o ci^av. pgo c f Àv³/4gi n^ax²u
 hcm^a n^ar g lgrpkm o gi gn wÀpm j cpgo c ekpi^at nku Rktpk| gt
 O cp»². cnkv gi {knÀpmug kki {gnvuj c ugo o k²t0

O lgn w x²i²v xgv m c xceuqt^apcm o gi vcp^aeumq|| wm
 o knqt vcr^amuj wpmo gi kp0

ô L³/x p{^atqp. ô o qpf l^amc r guu| ko kv²n0

C| qr vko kv²m tci cu| nqf pcm c j j q|. j qi { o gi kp v eum
³/4²x o Àrc0 J^av l». ³/4²x o Àrc o gi Àr Àm c| ³/4xgpgf km
²xhqt f w»0 J cwcpp{qre²xgugm rgu| Àpm cmqt0 Xcp n³/4³/4
 vÀpm gi {/n²v u| ngr vknw. cnk vskm^acvqucp. h^ateu^ap o quqn{qi 0
 J cwcpp{qre²xgugm rgu| Àpm 0 0 0 j^ap{cpA Gi { nleukv dk qp{/
 vrcpwnnqeekpwpn0

Xku| qpv^av²utc. HkÀn#

Xku| qpv^av²utcAVcr^amuj wpmo²i A

C| gu go kpgpu. cnk pgi {xgp³/4²x »xc r qpqucp²u
 n²trngj gv^av^apÀn mÀf k pgmÀpm c o gi j²»v. o gi p{wi v»cp
 xgtgi gvko gi x^amv^ancv

ô J qi {pg vcr^amuj p^apnA | p kf glgnqt^ap²tvu^al gm
 o kpf gpnk0

MT—F [I [WNC

3: 9: /3; 55

NGXGI Xf NVQ\ f U· T· OG| UU\ QOQT—Uf I C

C| cñ dd n³kgvng| v³4v²pgvt n plpeu ul » c tgi²p{ñ³p{/ xgnlgp. c ul cñ¹eun³p{xgnlgp²u o^au²tfgo rgi gu p{qo vcv x^ap{qmlcp. fg o²i ku gn ngmxgppk vc o Àv¹k¹ ml r0

C o Àv¹k¹ d n²tfngvu qrxcuo^ap{ rgi gvc| ku co kv o²i pgo j kgrgu¹gwgmc nt»pkn¹uqn0¹ i { r²rf^avn c ì T»|uceuqntè/j q| e¹p | gw dgr^atqukxgpf²i n v³4| uxgpf²i²pgmu c xgpf²i n h rkp/ e²t²pgm nk^apf w¹uc c L»| ugh^atqudc0 T²i k xgpf²i gm pgo ki gp o q| f wpcmo gi ul x¹gugp c j gn{ Àv¹ r0J u¹Àp¹mc ì T»|uceuqntè/ j q| e¹p | gw xgpf²i n v³4| uxgpf²i g o²i ku o gi o q| f wv²u c nk^t t^apf w¹utc o ci^axcn eucm¹cwc c ì T»|uceuqntè h rkp²t²v. M¹fcw Gf²v ku. cnk¹pgm v¹xqn²v²dgp vcn¹p pgo ku p{kw³m nk tgi i gn c ì T»|uceuqntè xgpf²i n v0 C l»| ugh^atquk nk^apf w¹ r¹uv c v³4| uxgpf²i²u h rkp²t wpcmo cu j quu| À gd²f w¹pk f²nw^apqn¹o gi dgu²n²n0

ô P²j c pgo^atv gi { nku r¹xgi x^anq|^au c o kr^an^apn¹up. ô o qpfvc c ì T»|uceuqntè h rkp²tg0

C v³4| uxgpf²i²u c h rkp²t o gi²tvw²m gi {o^auv0 Gi { ul qo dcvk perqp grj ci {v³m c ì T»|uceuqntè/j q| e¹p | gw xgpf²i n v. j qi { o kpf gppcrk vggpf¹ m j gn{ gw o^au ul »tcn¹|^auv ku²rkgl j guugpgn0

ô C L»| ugh^atqudc o gi {Àpn# ô u¹À¹vcm³4u| g. o kpj c pgo o gtvgm xqpc j cpi qucp dgu²rpkc dgr^atquk xgpf²i n dgp c nk^apf w¹ut»n co gn{gv c v³4| uxgpf²i²u c h rkp²t r¹xgi / x^anq|^au o kcwvgtxdg xgw0

Gn m¹u/Àrgv¹m

C ì U| gi h è/j³4 e¹p | gw xgpf²i n c L»| ugh^atqudc p xqn0 C o Àv¹u|^acf³4xgpgu²xgk »vc o kpfki xgpf²i n xqiv c| qp

c jgn{gp. o²i r g f k i j c | c h k u x g p f²i n . c j q n c | g n g p |²n k
j q p h k m v r i m u | v m v g t x g n g v n u j q n c m c h e r p c h k v c n² u
3/4 g i M q u u w j N e l q u n r r g² u q n { c p d q t u | c i^a t e f c x g p f²i n
» f q p h e r k d » n o k p y c x ¶ j g n { g w d q t v n g x g t v g m x q p c c
o c n g t j g l . c o g m { g n² r ¶ h g w² n 0 J q i { r g f k i c r^a f k o g p w o p e m
c d t q u | p e m u | c r x² v³ p e m r q j^a t p e m g r k k e v j c v e v r e p d q t u | c i c
x q n < c | e u c m v g t o² u | g v g u . o k w³ p k w o² i p g o k v e m e u r t » n
u³/4 v c x g p f²i g m Å x g i g u u³/4 v k u e u c m q n { c p n q t . c o k n u t l f l v
c i { q o t w m c | g n | p e r k n u t j g n { n g f² u v r 0

R² p v g m w e v v r i p u ¶ u | g t g p U | q o d e v Å t p e m p g x g l v² m
x q p c g l g p c j g n { g p . j c^a n e r i d e p n i o q p f v² m x q p c k w x c r e /
n k p g m c x g l g v² n p g x² v . f g e u c m n g t g u l v p g x g m x q n c m h q t i c n q o /
d e p . o k w³ p c x g p f²i g m o k p f k u o g t v² m g i { o^a u 0 C o k x g p /
f²i Å p m p g m i R e r k d^a e u k e x q n c p g x g² u u q m h g n n x q n v t² u | g
p {^a l e u Å f x³/4 n g v d p . n g f² n { g u o g i u | » n ¶ u d e p . j c o k u ¶ e v r e p
l > | u g h x^a t q u k n r i u |³ p v² u d g p . c o k n u t v g n k p v² n { g u v g t o g v² p d
n r i g p { g i² d g p . t > | u c r e r t k n e / u ¶ p e t e^a x e n t³/4 k f t g x^a i q w
h g j² t u | e n i n i x e n d g r r g w² u g r h i n e n e j g n {² v c o c i c i c u l v e /
n i p^a n , c o g n { v i { c p e u c m u c t q n e u l v e n x q n . c o k c | v d k q p { ¶
v q w c . j q i { c x g p f²i k w w i { c p e u c m v g n g u v g n k p v² n { v² r k g l 0
E u c m² r r g p c | x q n c | c u l v e n d e c . j q i { i { c n t e p n g n g w k i c /
| ¶ e p k o g t v p g j g l g p v r i n e g n c o c i c j g n {² v m Å n³/4³ u g p o c .
c o k n u t c X g p f²i o²i x g p f²i g v k u x^a t v v g i^a v o k p f g p p g m
t g p f d g p n g n g w n g p p l 0 C X g p f²i w i { c p g l² t v c f f k i r t > d^a nⁱ
i c w c c d k n g i c u l v e n . c o ¶ t^a l³/4 v . j q i { c | c u l v e r p e m c |
g i { k m n d e c n i n g m v g p p k g i { f c t e d h e u n i v . i | u k p f g n { f c t e d q v
x c i { g h r i v o g t v c r e r k t q u g p i g f c p { q o^a u p c n e * C n e u c /
h e t m j c l Å d q t h k A g n k u x² i g l v g l v e v g p f v 0

i R e r k d^a e u k e o q u v c x g p f²i n u v n r t g w g x q p c . j c c | p g o
a m u w x q p c c o Å i { k u n g u d g p . * c f v c c | u k p f g n { f c t e d q v c
d q t h k A p e n 0

ô P q u . U x g t v g v n f Å t . o k x e p c o c i { c t u » n g w g n x c i {
o k p v³/4 . t² i k v³/4³ n d c t^a v u | q m c p g x g l p k c i o c i { c t r k i h e r e Å
ô u » n v R e r k d^a e u k e u c m Å i { j q l |^a x g v n g i o k p y c p g o k u
p c i { q p² t f g n g p² c n r t f² u t g c f c p f » h g r g n . r g f k i v r i p g l
x q n c x k i i q p c | g i { g v g p . c o k g d d g p c r g t e d g p o k p f g p
h i { g r o² v k i² p { d g x g w g 0

U x g t v g v n f p c i { f c t e d g o d g t x q n p c i { n g l . p c i { n d Å² u
o k p v c | k i g p g t u g o d g t g n c u | » v e r p 0 O c i c g t g u l v g w g n g n r i³/4² /
n g p w f x e t k r k p e² l² d g c n g i p c i { q d d d q t q u j q t f » n e v k u 0 C |² x /
u |^a o x e u c l v l^a p 3 : 6 :² u U O X 0 d g v m U x g t v g v n f X k n q u x q n 0
e u c m² r r g p g i { v a m e u n e r e r Å j^a | k u l q n i c t e n q u i e w c c j q t f » c n i

xcn» hcfctcdqncv0 ô Fg o kpf gp ul »hwnctufi c o gmgw Uxgt/
vçv m{ vâdd fcrñtf^a pcm xqrv vci lc0J gvgpnkpv c| xgpf² i n l²/
dgp fcrñtgu² n{ xqrv. co gn(gp Uxgtvçv m{ Ai { hÀvc. o kpv gi {
xgpf² i 0

ô C ì r kñ hcrë tgpfdgp rgu| o kpf gp. cj qi { ul qnqv
ngppk0

C dqthÀ g| crcw o^a t j q| v c l² n rkgt hgj² tdqtv² u o gi /
hrgn rct^a f k xk gv. o gtv gddgp c xgpf² i n dgp c j^a | ul qnñ uck/
j q| cmern c| nqf qwì Rcrkd^a eulë. o^a t gd² f gn wdqtvkxqW0

ô Xkff xku| c c dqt v² u j q| |^a n gi { rkgt dqt v0 | u pg
kñ(gp euqtdc Æxgi dgp. j cpgo vku| vgu² i gu. o gvul gw Æxgi dgp0
*Uxgtvçv m{ pgm j ¶gugm xqncm ul ¾ rvgut g o gvul gw Æxgi gk
r qj ctck= o kpf c o Anvul^a | cf d»nxcn»n0

C ì Rcrk d^a eulë o gi lgi { |² u² d n o kpf gpnk o gi² tvwg.
j qi { xgpf² i gv x^a t 0

| u o^a t l³ w ku Mfcw Àt. o² i r g f ki hngvgul crci qu ul Æng
r vj cner r dcp. ul Æng twj^a dcp. nñ m p{ cmngpf dgp. co gn(dg
gi { ctep{ r cwm» xqrv dgv | xg0 *C r cwm» dngl² dgp I t»h J 0 U0
pgxg. cnkpgm² r v² dqp ì uqm ul ¶xgu² i gvë vgw MctÀv Àt u
g|² tvner qvw r g go rñgv0

ô Pqu. Gf g det^a vqo. tgo² rgo l»² w^a i { cv j q| qw
o ci^a xcnA ô hji cf v xgpf² i² v ì Rcrk d^a eulë nñ | f³ / u³ /
i gwxg0

ô Qj. ô hrgk Mfcw. ô c|² p nqtqo dcp o^a t pgo /
ngj gv² w^a i { t»ndgu² rpk0

ô J^a p{ gu| vçv u. Gf g det^a vqo A

ô J^a n) Kvgppgm ¾ xgp¾ # ô o qpf Mfcw Gf g nñ p{ /
p{ gf² p0

ô C hco ngj gvp g0 | p j c w c p j^a t qo xci { qn#

ô C |² p cr^a o. wi { cpeucm Mfcw Gf g. h cdteno gurgt
xqrv c j ¶gu vçk i t»h Gurgt j^a | { O km» u o² pgu² dgp0 C |
i c| f^a lc cncr ¶qv c | Qu| v^a m lqeng{ / Enxdqv. cv^a o nqxi qrv
gn ul ¾ c lrgwf gpcwk r^a n^a p. j qi { r qpvqo lrgpv² uv vçj guvgp
ctt»n Dggup/pcm c i t»h v² pgt² pgn0 Cv^a o uqm n» i { | grgo /
dgp ì dggp g xqnë² r v² dgp. fg o kpf gp² v c Ectr/ul ¶j^a | o x² u /
p kg nñ n³ / v³ / w. o kpv cñ t c i t»hlc0

Mfcw Gf g nñ p{ gf² p. hgu| vrgp Æn vto² u| gvugp² u
l^a v² nqu j wo qtten dgu|² n co k nqt^a pwgo xqrv ul qnñ uc c
ì T» | uceunqtè / dcp0 Gddgp c i cxcn^a tqv. ul Æng twj^a u Àdcp
cñi kuo gtj gw hgn xqpc xcrcnk c ì T» | uceunqtè o gtgxtg
xcucnvh r kpe² t² v0

ô Pq o clf o gi n^a vwm ô hrgn ul »tcnq| qvcp ì Rcrk

d^aeulë. wɪp eucm c|²tv j qi { o qpf lqp xcɪo kx o gtv pgo
pci {qp²tf gngng^{3/4} c n>xgtugp{. kpn̄dd c|²vgtg i qpf qɪw
co gn{ c nɪp{j c hgn n n̄4 gn̄ gɔ Cff ki ku c| qpdcp dqtv v̄n̄^{3/4}
*ku| v̄p+c o gw| gwr qj ctcndc²u ɸ { u| »n<

ô —i { wɪqo. Gf g dca vqo. j qi { 3/4 pgo u| qnɪw
dqtvlppk fg tgo²rgo. c ngf xgo²tv̄i nkx²vgr̄l è0

ô | p eucm c| ã r̄gdgp. cj qn c n̄gp{gtgo gv n̄gtgugo.
pgo u| qmco dqtv kppk ô h̄rgv M̄tcw Gf g d̄k qp{qu n̄qo qn̄
j gn{tgi c| ɸ³ uucɪ0 ô Fg gl c dqt c| v̄p o gi v̄guk c o ci^{a2}v
o qpf v̄c xqɪc cv̄^a o dca v̄c Oc{. c| cncf^an̄|uqn̄. cnk
o kpf ki gi { r̄kgt o ci {ct dqtv kxq̄w o gi xgtugp{ gn̄ w0 ô
ɸ { u| »n̄ xk^a o cp d̄gngv̄n̄kpxg ã gu r̄qj ct^adc M̄tcw Gf g.
j qi { o kpf gp l̄rtg²t²v̄uv gr̄qul̄ n̄uq̄p j cpi w̄rv̄t>n̄0 Xc̄n̄dcp
n̄gnḡo gu. dca w̄^a i qu j cpi w̄rv̄dcp xqɪ²u ɸ { u| gtgwg xqɪc
n̄ v̄kn̄4p{g| gv̄ v̄ c Xgpf² i gv̄ku0

C| cuu|qp| o gi lgr̄p²ug

Fg o quv n̄4xgv̄ng| gw gn c f^{3/4}pv ukngt. co gn{ c ì T>|uc/
euq̄m̄t̄e xgpf² i u²i²dgp r̄fx h r̄kpe²tv²tj gw̄g c ì U| gi h è/p²n
cj quuqj c ug h̄qtf w̄v̄o² i o gi 0

Dḡr̄r̄gw c n̄ɪp{j^ad>n̄ Uxgtv̄v̄n̄p² c r̄gxgugu v̄ m̄cn
co gn{dgp ì Rcrk d^aeul̄c̄n̄e o kpf gp u| qo dcv̄p u| go²n̄gugp
u| qmc h̄gu| qn̄^a r̄pk c| w̄c^a n̄cn̄ ì o ci {ct r̄k̄ l̄h̄/pcm c Xgpf² i
^a n̄cn̄ ì o ci {ct u>rgv̄/pgm̄r̄p̄gxg| gw²v̄gn̄0

Uxgtv̄v̄n̄p² w̄i {cpeucm j c̄v̄m̄ cu v̄to gv cuu|qp{u^a i
xqɪw. o gtv c l>| ugh̄x^atq̄k xgpf² i n̄ u^{3/4}m̄ o² i j c xc̄n̄f̄k d̄gn̄
i w̄u| w̄uwm̄ o^a u ku xqɪc. pgo xgu| pgm̄ gn̄ o^a uv̄ h̄rgu² i ã n̄ o k̄p̄v
o w̄p̄ncd̄ɸi>. v̄p{gtgu/v̄c̄r̄ cu cuu|qp{q̄nev̄. t̄gp̄f̄u| ḡtk̄p̄v n̄q̄teu/
o^a t̄qu/euc̄r̄f̄d>n̄ u^a to c| q̄w̄c̄nev̄. cn̄km̄ o^a t̄ q̄v̄j qp o gi v̄p̄w̄/
v̄ m̄ c| ã r̄gv̄ o kpf gp eukpl^a v̄d̄k̄ l̄^av̄0 i { Uxgtv̄v̄n̄p² ku
t̄gp̄f̄gu n̄4 ã n̄² p{gm̄ n̄4 3/4v̄ ã i { l̄^atv̄/n̄gn̄v̄ xgpf² i n̄ l̄²dgp.
o k̄p̄v gi { f̄t̄ci cp{qu. t>| ucu| ɸ xqɪw n̄4p{3/4ki o g| v̄gr̄p
n̄t̄lc. xc̄r̄o k̄p̄vc n̄ɪp{j cv̄ | p²nr̄ k̄ɸq̄w̄ctec̄ ku0

O quv ku k̄n̄{gp r̄r̄ v̄gm̄gn̄² u k̄n̄{gp m̄ã n̄u xgn̄ l̄^{3/4}v̄ c| cu| v̄c̄j q| .
co gn{p²n̄ o^a t̄ ì Rcrk d^aeul̄ë c u| qn̄^a uqu p{^a l̄cu v̄n̄k̄p̄v̄ḡv̄gn̄ x^atv̄c.
r̄gv̄ḡv̄ c v̄ r̄ev̄ c| cu| v̄c̄t̄c. u g| xqɪw c u| gtgpeu²lg. o gtv m̄ã n̄4p/
dgp v̄ p gr̄l̄v̄ḡv̄ xqɪc0

ô M̄tcw#ô n̄k̄ n̄q̄wh̄r̄n̄ô J qi { n̄gt ã no ci c k̄f̄gA

Gn̄ u| 3/4 v̄to²u| ḡvḡgp ì Rcrk d^aeul̄ë v̄ḡv̄ḡ r̄g c n̄g|²dgp
v̄ctv̄q̄w xk̄n̄^a v̄. co gn{gn̄ u| qn̄^a u u| ḡtk̄p̄v. o kpf gp̄gn̄gn̄ w o gi
c̄n̄etv̄ i { | f̄pk c v̄ r̄dcp r̄gx t̄gl̄v̄ n̄{gu j ã n̄ r̄w̄j cu^a i^a t>n̄

o^a uqf u| qt Mfcw Gf g o gtgu| vgw nk c u| go² v o kp v cnkxgn
xcrno keuqf c v⁴ v² p v⁰

ô Pci {u^a i qu cuu| qp{# ô hrgng. o gtv gn u| 3/4 o² i ku
eum c l>n dgftguu| f| q| qw r kpe² t² dtgf v hgn dgppg. o kpf gp
gff k k ngf² n| gu² i g o gngw⁰ ô D^a vqtnqf vco grhq| cf pk
R² pygm^À o gi j {k^a u^a v⁰

ô Mkc| c R² pygm^À Aô n² tf gl v g gj nxg Uxgtv v| n| p².

ô | p xqrp² n⁰ | p xqrp² m c o ci c i Rerk d^a eukcë. u| »nrv
o gi o quv c| kf u² u² x^a i {cu Àlgo dgt. cnk gi { o^a uqf r gte
o Àk c o^a t pgo uqm hqpvuu^a i qv wrc| f qp f| qw c| gi² u| lg/
rpgvpgm o kw³ p c v³ n c| cuu| vmp xqrv² u c lgrpgvpgm co À {
ku x² i g ngw. u o kw³ p c| cuu| qp{. nku² gj crk^a p {qf xc xkuu| c/
xqrvw> dcp xqrv hgn p² u p² m^À n c nup {j^a l^a dc⁰ i Rerk d^a eum
wi {cp gl v pgo u| qmc o gi. o gtv knp f pgm vct vqc xqrp c.
j qi { c xgpf² i n up² *Uxgtv v| n| p² + o gi x^a tlc o gi lgi { |² ugk
co gn| gv o clf c|² vgr n o qpf c| gnu hcrv w³ p. fg grv gpv
u i Rerk d^a eukë x^a nrvxqv<

ô G| ku o gi² tkr² p|² v⁰ O kpvo kpf gp cuu| qp{0

C o gi lgi { |² u p² o k xk^a i qv xgvw i Rerk d^a eum rgnk
xk^a i^a tc. fg c o gi lgi { |² u² r² v eucnj co ct grkxgw gi { o^a ukm
o gi lgi { |² u. co gn| t³ k³ f xqrv. fg cpp^a n ncf »uccd u f| {
j cpi | qw<

ô L>#

G| v cmqt o qpf v c i Rerk d^a eukë. co knqt c| gnu hcrvqv c
u| l^a dc xgw. o gi t^a i v c² u ngeu^À vvc c vqtn⁰ U p {qo dcp
gi { pci { ngxugu ncp^a mcn xgw c|² vgr n cp² m^À n j qi {
lqddtc/drtc vgnk⁰ v gvw xqrp c. o kp v c gi { gf^À n xqrp c
xgpf² i n dgp⁰

O k xqrv c| c hcrv co gn| i Rerk d^a eum o gi lgi { |² u² v nk
² tf go gngA

Gi { fctcd j Àu. co gn| c v³ n v² p² Àu| qw² u uqpn^À u^À n
d n xcn> xqrv u|^a to c|^a u^a tc p² | xg⁰ Rwj c xqrv. j qi { xkm/
u| À^a utc p {qo dcp rg xcmjw c euqpv> n gr² i i² u> u xqrv. fg
o² i ugo v^À u^a i qucp u> u. cj qi { gl v c|² vgr Uxgtv v| n| p².
*i O co cë o qpf v n² u dd i Rerk d^a euk+ wf v n² u| f| vpk C v³ n
dcp n² v uqpn^À u^À n² u g| gpn^À k^À n fci cf »/ j Àu ku xqn⁰ i Rerk
d^a eukë u| gtlpv c uqpn^À u^À n² p gm xqrv gnu u² i g. c fci cf »
eum o^a uqf km u|^a o pcm l³ g v. c n³ g dgg u| Àpgv n³ n km
c v³ n dcp o gi h |³ w vq^a uqm xcrno kp v c t> | ucr cr tk^a » n
r ktqm». i { gpi² p hqi j c i { o^a | qw. | u³ f| qu. pci { u| go² u r wj^a tc
h wdcdqn⁰

ô C i r cu| w| euw| ur^a | u³ ô o qpf v c i Rerk d^a eukë.

co knqt jcto cfu|qt ku gi { ngxgugu ncp^amcn xgw v³p{²tl^atc
c|²vgn n²u pci { ³4³o²tg gi { dcd²trgxgrgvcrf^anc rcul w^adcp0

J qi {cp xlugmgf gwgl crcwMfcwGf gA

Mfcw d^at p²o k u|qtqpi^a u²u j cni cvci u^ai x^anqwc hgn
gn ddk mgf²n|gu²i²v. eucnj co ct c jgn|gv o ci curv³tc
go gmgf gw o²i r gfk qn(cphqto^ap. j qi { gn xgw i j kxcvcrqu
cte^avë. c|v c o q|f wcvcp. nkggl²uvgrp h r kpe²tk cteqv
co gn{ ucl^alc xqrv c ì T»|uceuqntè/dcp. co knqt pgo cnetv
ugo o kvugo gr^atwpki qpf qrcvkd»n0

Mfcw Gf g xkn^axcn²u n²uugn gxgw c ncpcrv eucm cmqt
j cul p^anc. co knqt ctte ki c|^apf kcp u| Æm²i g xqn0 Fg vt/
j gv gp nksgwo ci^a2tvc vq^auqm²u c f ci cf» hqi {cul v³u^ap^anku0

ô P q o quv ki {wpm o gtv o gi²tf go gn^aÆ# ô o qpf ì Rerik
d^aeulë c p{cn^adc n³4³av u| crk²v³xcn o gi ³4³kg xgtgl²ngl
cte^av. co gn{ wi {cpc|qncv c u| p³ngv xlugng gddgp c r gtedgp.
o kv c|²vgn co gn{ gn dd *c o Av kf dgp+ c| cul vctc ngt^aÆ0
T»|ucul p³ xqrv o kv c r crtkæ. fg dcpcr kqu ku. o kv c
uqpn⁰*C uqpn⁰tv. gl v c hngvg j qm kv. vgt²u|gvugp c v³n
hpgn²p j ci {v³n0-

ô P q o quv ki {wpm ku²vng ì Rerik d^aeulë²u c r qj ctenv
u|cd^an{qucp o gi ³4³vg. j^atqo pgi {gf t²u|dgp c o^at fleu²tv
hg²tdqten gi {pgi {gf t²u|dgp r ct^afk x^a||gn0 Qf cmuekp/
vqc c r qj ct^avMfcwGf²²j gl 0

ô P go ngm d^auwpk Gf g dct^avqo. o gtv xcp pnggo c
h x^atqudcp o²i v³ld nqeuo^ao ku. o kv gp pcrtc gukm gi {.
co gn{ngv o clf uqtdcp o gi n^avqi cwpn0 | p o ci^apqu. ³4/
xgi {go dgt xci {qm l>n gukm cpp{k gul vgp f gk gi {gf Æn²v w³p
v³tuc^ai dc ngpp0

ô O kv Unpp o qpf v. i t>h Vtewwo Vcppuf qth Nelqu
cnef^an|uqn²lc. o knqt c pci { pk|ck i^avgtugp{dgp nggugv
P gi qo i n²p j^av³t>n²u ltcpekc m>tj^a|dc xkw²m ô hgrgv
Mfcw Gf g²u qn{cp hæteuc i tko cul v x^ai qw. o kv gi { o clqo
o gtv c| kn{gp o q|f wcvcp cte^a go dgtgm wf pcm ki c|^ap
i tko cul vx^ai pk j c cnetpcn0

ì Rerik d^aeulë c|qpdep pgo j ci {vc o ci^av|cxctvcpk Unpp/
pgn cnk dl^aqp{^atc l> uqmr²p|dg ngt^aÆ. cnkm c| gu²n|gu nqxcv
hqi cf^am c pci { ì Pk|clë/tc. wi {cpg²tv ku²v dqtv ³4³av
c o gw|gw Æxgi d n²u²rr gp Æi { o gi ngxgtv r ct^afk x^a||gn
o kvgn dd0

ô Xcrxo k qn{cp n³kgvng|km co kv o gi ngm^ai {c|pk ô
o qpf v. h²nl go o gn mæukpvc c ì T»|uceuqntè h r kpe²t²tg.
cnkpgmo^at gf fki ku o gi ngr²uvu|gt|gw0

l u kuo² v hgnv pv c r³ v³ tqp c nup{j c hgn n Uxgtv³ m{p² f tci qp{qu/crnlc. cnk c tgpfgu t>|ucul³ p² dgp. gn ddk hgn/ kpf w³ u³ v r³ u³ »rci hnglwg c nup{j c i qpf lck n³ gr gwg. gi { pci { v³ nup c hctucpi kl³ pn³ vj q³ v0

Hctucpi k l³ pn# ô o qpf cp^a c| q³ kcu» *³ p Mlcw Gf g ku. gl ku xcrc k c o gi ngr gv² ugm n³ ĀnA O kpf gp³ w³ l³ m u³ Āpk² u d³ qp{qu k³ dgp qn{cp n³ grg|² vgn o kpv c j gtpi xci { c rqi^a euc0

ô Pgo # ô ul »n³ i Rcrk d^a eukë c| gnu l³ pn³ v o gi n³ u/ v³ k^a p. co Ā { hqt>»p. co kpv c v | j gn{d n c hgf gwgp r³ dcu/ d>n n³ kgt³ Ān. cj qn o kpf n³ v qn{cit>n o gi u³ w³ n0 ô G| c l³ pm w³ lc c o ci^{a2} v. cn³ to kv o qpf cpcm p² o gn{gn0 *Fg dgul² f n³ dgp pgo r kncpvq³ Mlcw Ātc. gm³ pdgp c o^a rncgm/ x^a tdep o^a tqi cvq³ u³ Euwnq³ v | j gn{gp u³ Ān. rgi cn³ dd gi { »^a ki ngrpk jci {v³ m o gi hrgn ewnqt. xcl² u² rgu³ v xcp dgppg. fg vgl ku# ô nk³ nqvc. o knqt c j cvq³ km l³ pn³ v o gi gwg0

M³ pp{ nkcn³ rpk nkpgm ul »n³ v gl c| g³ tci cf v³ u0 Ugnk o^a upcm o kpv Uxgtv³ m{p² pgm cnk c l³ pm hgn³ rci³ uc w³ p nleukv rgvgrgf gw xgp² i gl³ gl. vto² ul gvgup kpn³ dd c| ³4gi Ātj q³ . o kpv Mlcw Gf² j gl 0

Gd² f w³ pko gi dgu² r³ ugm

ô G| c xgp² i n xcrc knqt j f³ gu cp³ ku³ go kc/vcp{c xqrv kppgp k³ v³ | v³ m c vku³ cgu³ r³ tk r gttgn ncr euqr³ vqu h x^a tquk o q³ i cm cnv ku² u cmqt o² i c i Hgj² t U³ gi h j³ Ē xqrv e³ o gl xg. o gtv hgj² t ul gi h xqrv c| cp³ ku³ go k³ m xk^a i c.ô ngl f v³ xqrpc i Rcrkd^a eukë gd² f w³ pkxku³ cgo r³ ngl² ugk0

ô G| o² i c| ³4gi Uxgtv³ m{ k³ gl² dgp r³ j gvgw³ f³ { . ô hrgnv m³ v³ p Uxgtv³ m{p² ô i Rcrk d^a eukë ku d³ qp{qucp guk xgp² i xqrv eddep c| k³ dgp. o knqt c| cu³ vcn³ tucu^a i qm o² i xk^a i q³ vcn0

ô D³ k³ qp{. hco. ô hrgnv j quul cpv gp{ Ālvq³ j cpi qp i Rcrkd^a eukë² u rgrpn³ ef v ul go rkn³ mnen p² | gw n³ Ān0 ô Guk xgp² i xqrvco² p dqr³ qi wv p o k³ gl² dgp0 Dgl³ gi o quv. ³4 xgi {u² i go tg^a i {dcp xci {qm o kpf gp guv0 Fg c ncr w n³ v³ euqo o quv ku kw xcp c | ugdgo dgp. cmqt o ctef qm nk co knqt cnetqm

Uxgtv³ m{p². o k³ vj c c n³ v f qm³ n³ ³4 ³4w ³4ul gh³ Āi² u xqrpc. o quv j kvgrgp c| v n³ tf gl v³ c ul qn³ v w³ v³ gwgl rgu/ u² i i gn Ān Mlcw Āv>n *cnk r³ u³ »rci c| ³4gi Āt gn cf^a u^a tc hki {gn<

ô Oqpf lc Mtcw Àt. o ktv pgo 3/4^am>u^aqwc o ci^av
cpp{kgu|v^apf >»cA

ô O kpgm²u nkpgmA ô n²tf g|vg Mtcw Gf g u|cd^an{qucp.
o kpv c| gi {n²tk lqeng|. co kn²t o gi n²tf g|v²m v rē. o²tv
pgo p{gtv^aq^ax^axcnAô O kpgm²u nkpgmA

ô Vgj^avp vgp go dgt o ctcf vA

ô Pci {qp vto²u|gvugp0

ô N^auc. 2^p h²tlj g| o gpvgo 0

ô Gi { p pgm o^au c j gn| |gv. ô hgrn^a Mtcw o²i u|c/
d^an{qucdcp. o kpv o kn²t c| 3/4^{3/4}n²i c| u^ai qn^avo qpf l^a mnk0

ô Uclpqu. i {gto gm^apm plpeu. c| go dgt pgo w^alc. n²g
f qn² q| kn²RGf ki u²r fgt²mgo dgt c| wtco OJ ku|gp n²vcA

ô Xqrv u|gtgpeu²o n²vpk fg eucm o quv xqrv u|gtgpeu²o
n²vj cvpkUxgtgv^a n² wtcv00

O quv ì Rcrk d^aeulë u| >»n² dgrg c v²tuci^audc. o gtv d^at/
o kn²gp l>mcn^aq^aw. u|gtg^awp²j c²rgvgn^acf pko ci^at>n<

ô Xkn²qu pci { rqrkknw0 C v²4^{3/4}n²o ci {ct dct^aw^ai
o gi u| k²tf v²u^ap h²tcf q| km ô o qpf ì Rcrk d^aeulë gi { dgp/
hgvjuj^a |kdct^av^aw^acv^au^ai^axcn0

Fg Mtcw Gf g o q| f w^av^awp cteecn hqn^av^awc c| cuu|qp{/
j q| k²v²|gwu|cxck<

ô Cmn²tkdcp o²i. co kn²t pci {u^ai qu cuu|qp{ 2^fgv/
cp{l^apcm xgpf²i n l²dg l^atwpm^av ~ dwf^atc. o gtv qw o k
ncu|k²>k u|go²n|gv. M²guk c h u|cn^aeu. Ncpf un^apej v
O^av^au. c h n²qo qtp{kn Rkreugt l^apqu²u c v²ddk^agm u|cdc/
fcdcp o w^av^avw^apm o gtv gr²i tg c h x^atqudcp kuo gtv^am
o k²ngv. cmn²tkdcp o²i Uxgtgv^a n² Àt pgo xqrv c n²vj cv²tp0

ô Pgo ku n²gv^aw. o gtv l>|ugh^atquk xqrv. 2^p r²gf ki
>»dwfck^an²p|. ô hgrn^ac| cuu|qp{0

ô Xkrk xc^andcp ki c|k ì l>|ugh^atquk. ô o qpf gr²uo g/
t²uugn² Rcrkd^aeulë²u wllckxcno cm q|qv0

Mtcw Àt gi { t³klf. euqf^amu| >» rkn²pv^auv xgvw ì Rcrk
d^aeulcë. o k²vj c c²pcm n²4 dgu| >»n²uck pgo kn²gp²gpm c v²ti {
j q|. o clf v² { hqn^av^awc<

ô Xgn²pm l^atv Ectur^ang. c lqeng|. c²kn²pgm v²tuci^ai^a2^{tv}
j gtegi gm xgtugpi v^am fg kn²dd xgn²pm l^{3/4}w ~ dwf^atc dqtv
k²pk f qj^ap {l^{3/4}g²nk u|kxctv u| v²pk² u²p²i gt/v²peqnev v²p/
eqpkl0Rgtu|g c u>i qtc. J {co u ku xgn²pmvctvq0

ô Gu c| c pci {qttÀ go dgt. c| c tci {^auA
Mtcwwt r²gp²| n²i n²i {k²gv<

ô Vcn²p Dqdd{/v c|c| J wzcdrgv. c ì r²Àr 3/4^{3/4}ë v^av/
u|km i qpf qpk c²kn²pgm ì Dik|ctfë i {cp²Àu n²xc²i n²uc o k²w

U| go gtg O km»u v̄4vg nk c p{cn̄v c d²euk lqeng{ Einwddcp.
o knqt xk̄ ui^a r̄cv̄qn̄t̄vgn̄pgA

ô P go . ô h̄gn̄v j cv̄tq| qwcp c xgp²i n up²0ô C pci {/
qttÀ cnkc| w̄cmv̄tuc̄i^a xcn¹a tvj q| |^a pm̄<pgo xq̄n/lqeng{0

ô Cmmqt eucm c Rctf wdk| gt r̄j̄gv̄w# ô h̄gn̄v M̄icw
Gf g u gl w̄³p nku gn cf^a uvctv̄wRctf wdk| gtt n0

ô Rctf wdk| gt u| gi²p{ ì dgco v̄t/go dgtē xq̄n gi²u|
2r̄g²dgp. c p{w̄i f̄|̄ceun̄l¹a v²r̄xg| v̄g. o gtv³4 xgi {go dgt ku
xq̄n0 U| »xcn qn̄cp go dgt xq̄n. cnk qttH̄x^au w̄³p o kpf ki
u²v{ kq̄vc c | ugdngpf l²v²u o gi p²| v̄g cppcm vctcn/
o^av0

ô G| xq̄nvc| kn̄gv # ô o qpf v̄c o quvUxgtv̄v̄ n̄{p²0

ô | u p²j c c r̄i lqdd v̄r r̄gn̄v j q| v̄c c h̄i cf »ktq^a m̄
d»n0 Rqpv̄cup w̄f w̄m o gn̄ r̄xcn̄p ì h̄m| kn̄ē U| go gtg O km»u
r²p| g. fg R²ej { Cpf qt² ku0 P gm̄³pm ku d xgp xq̄n cmm̄tkdcp
r²p| Āpn0 C n̄cu| k̄p»k h u| cn̄eu Rctf wdk| gt v̄r l̄gk w̄³p pgo
gi {u| gt h̄i qwn̄g u²u j^a to cu ì gxgpv̄gn̄v̄ē0

ô P q²u³p ku. M̄icw Āt#

ô V²xgf²u. ô o qpf c r̄j̄gv̄ r̄i n̄qo qn̄cdd j cpi qp
M̄icw Gf g0 ô C r̄i pci {qdd v̄²xgf²u0 O gtv²p cmm̄tkdcp.
co knqt c| »d̄w̄ck \ co^atfk̄we^adc l¹twco. pci {u^a i qu cu|/
u| qp{²f gucp{ l¹a pcm xgp²i n l²dg. h̄i cf cm̄ co j q| j³k̄gp<
pgo l¹a u| qwco c n̄>xgtugp{gp0 Gi {ḡv̄gp n̄c̄le^a t̄tcn ugo xq̄n/
v̄co²tf ḡn̄r̄xg. o k̄r̄w M̄³xguk c h u| cn̄eu²u c v̄³ddgm
Rkn ugt l¹a pqu. J w̄v̄cd̄g. Ectn̄r̄ng. U| go gtg O km»u. R̄ej
Cpf qt. u v o²i Rctf wdk| gt²u c n̄cu| k̄p» j w̄^atlc. Xkn̄qt
ku | ugdgn̄²m c p{gtg²i ḡn̄v̄. o gtv²rrgp qn̄cp k̄ l¹tv c w̄t/
h̄p. j qi { c v̄kn̄qu v̄r r̄gm d̄gx^ancn0 Fg²p v̄t̄v̄wco pci {u^a/
i qu cuu| qp{²f gucp{ l¹a pcmv̄gh̄i cf cm̄ co v̄0

ô V̄w̄f qo. M̄icw Āt. ô h̄gn̄v Uxgtv̄v̄ n̄{p² 2u c v̄³xq̄n̄c
p²| gw. o k̄r̄w n̄³pp{gu r̄gw c u| go g c| gi {n̄q̄tk h̄c̄v̄cn M̄icw̄t
i qpf q̄n^ap. cnk kn̄gp^a r̄f q| cv̄v j q| qw x̄c̄r̄j c gi { e²n²tf g/
n̄³dgp0

ô Uclpqu. ì c f̄q̄n̄i è pgo uk̄n̄t̄Ān̄. ô h̄q̄n̄{v̄c̄w M̄icw0
ô | u p v̄gp go dgt o c̄tcf v̄co 0 Ḡr̄xgk̄o n̄³4² o c c| v̄t̄v̄q| km
j qi { d̄k̄ qp{qu c̄r̄v n̄³p n̄³k̄Ān̄ o qpf l̄wm c h r̄k̄p̄²tk n̄w̄el̄p
n̄³k̄Ān̄ c v̄³ddk r²p| pgm f̄q̄n̄ q| pk n̄gn0 U³ { kuo²v l¹a u| qo c
xgtugp{gn̄p. r̄gtu| g n̄q̄t^a p̄ugo qn̄cp gu²n̄f ḡm̄gn̄ co gn̄f ḡn̄v̄
c t²i k³u| gn̄³4vg²ugm t²x²p p{gtj gwgo xq̄p̄c0 Fg c r²p|
f̄q̄n̄ q| km²u pgo j ctkup{^adcp j gxgt0

ô C|²p w̄co o²i eucm n̄¹tv{^a| pk ug u| qn̄q̄w. ô h̄gn̄v
Uxgtv̄v̄ n̄{p² 2u c u| go g o²i o kpf ki n̄³pp{gu xq̄n0

ô Xc»u| ƒp ngi o gi vctvwc c hqi cfcm cv co kv c
 \ co^atfk^awe^adcp nkxgwmv ng0

ô Kgp. cp{^ao u|gtgwg c hqi cfcm cne0 Pg jctci wf/
 lqp Mfcw At. c| 3/4 hqi cfcm^adcp pgo d||qw²u gl²tv pgo
 ngj gvgwu| » c vgtxgl gwj^a| cuu^ai t»f0

ô Ok o^au go dgtgm xci {vpm o kpv c l»| ugh^atqucn0
 Ok c| v o qpf lwm j qi { c r²p| pgmf qri q| pk ngm0 Ok ku f qri q/
 | vpm tgi i gnv n'guki. c x²i²p o²i ku o gi j c»vpm0 Ok tv ngm
 c r²p| pgm² rplgA

ô Mfcwpcmc| c hteuc nkigrp²ug |cxctdc j q| v
 Uxgtvgv| n{p²v. hgn ku^amqw c| cu|vcn»n j qi { t²ik nft l²/
 pgm c o qpf^au^ap c nup{j^ap grj qpf qm|| qp. eucm ì Rcrk
 d^aeukA gl c| cpi {crkxgpf²i cfqwki c| cvMfcwAtpcmc

ô Kc|c xcp. Gfg dct^aqo. o ci co ku eucm cffki p{À/
 v»| nufqo. co gffki c vnet»o²t0

Fg Mfcwdep o quv o^at t²ik go r²ngm |ukdqi vcm o kpf
 grj qpf qm|| qwedd ngw c| ctec²u j quu| cp p²| gw c| cu|vcn/
 vgt²v tgOX²i tg x^atcvcpwn²u tgo gi j cpi qp o gi u| »rcn<

ô Pgo d^apqm ugo o kv c o Anv kf d n o kpf ki xqrv xcrc/
 j qi { . ƒ| { xci { co Ai {0 Fg c| v c| gu|vgpf v. co gffki c hqi c/
 fcm co cv vctvwc0. o²i eucm v³l²n²tc ugo o gpvgo c
 i {grpgm c o^aukm qnfctc ngtAngo c hqi cf»/ktq^am gnw
 dgf vi vco c hAngo gv. co knqt ctt»n j cmqweo. j qi { dct^avko.
 kuo gt ugko. nqn²i^ako < o gpp{kv p{gtpgm ì Vqm»ë i { |gf gn/
 o gkp. c| v c| gu|vgpf v. wco. nqo qnfcp uclp^anqo 0

ô Pgo ngm uclp^arpku go o kv. co k gm Anv. ô hgrgv ì Rcrk
 d^aeukè rrr c f» u| go j²lcko 3/4 An0

Mfcw Gfg qnfcp o gi xgv r kncp²uv xgvw c| 3/4 gi xgp/
 f²i tg. co gn{gv c| o gi²tf go gn0 P {kx^ap c| v i qpf qnc o ci^a/
 dcp. j qi { pgo ngj gv^{x2}p u| co ctcmenxkcvu| pl0

Xku| qpv² v^a ut c. o^a j q| gi { j² v t g#

P {kx^ap ì Rcrk d^aeukè ku²tg| vg. j qi { o gi lgi { |²ugkxgn
 tquu| l²v vgw c v | tg. tquu| nrf xgv qn|| qw xgp²i²pgm Mfcw
 Àpcm vi {cpgl²tv nku² gn|| qpv{qm| xc Anv j gn²p. o ƒ|
 Mfcw c o gpp{gl gvtg d^ao vno

C| kn{gp tquu| j cpi wcvÀ r gtegnlgp. pgi {gf»t^andcp eucm
 c x²ngvvp ugi ƒ|j g0 | u j^arc Kvgppgm o²i o kpf ki xcp x²ngv/
 rrp c| go dgtk²ngvdp. co gn{ c ì x²ngvvpè p²mAnkl qp{ pci {qp
 gi {j cpi Anpppg0

C xgp²i n ner w^ap. c| wf xcttc | qpi qtc/xgtmkv vqncm

dg. j clrqtqu. Rqo rcfqw/nqtcdgrk f^ao^am n^r2xgn f^ul^ug^w
| qpi qtc/xgtmkx. co kn^lgp o^at eucmc L>| ugh^xa^tqudcp²u Hgtgpe/
x^atqudcp *xcrc o kpv ~ dwf^ap+ x²i| k n^rwgt²ngp c o c i c n^r4/
À^ao

Dk qp{qucp²rrgp qn{cp o gi jcv^otq| qw ì pcr lwnë xqiv
c Uxgtgv^l n^l/l^rng xgpf²i n dgp. o kpv cn^rt ì Rcrk d^aeul^ocnë.
o gtv c| 3/4gi À o kpf gp o gi nrgv²u p²m^Àn fg dk qp{qu 3/4p²t/
| gwgnn^rtf gl^lvg c xgtmkgnu j cpi lckc<

ô P qu. o kvu^l »ngj j gl. Gf g dca^aqo A

P go o qpf^o nk fg p{k^xa^pxcn» xqiv. j qi { c| wf xctqp
c| ì xgtmkugë hqti c^lc c xgtmkx. o gtv ì Rcrk d^aeulë c| gnu
j cpi qmp^ano gi u^l »rcn<

ô G^lv c r qm^lv Utcwul L^apqu f^ovc²u ì Vgtghgtgë c p^gxg0
Fg M^lcw Gf g o²i o kpf ki gn xqiv o²n^lgf xg t²i k i qpf q/
rcvldc0W {cpgl²tvcl 3/4gi À À»rci o gi u^l »rcn<

ô G^lv c ngtlpi v wi {cpeucm Utcwul L^apqu f^ovc²u ì M^lm
F wpcë c p^gxg0

Gn^r4 dgp r gfi c xgtmk j cpi lck o gi v^{3/4n}3/4w²m c| wf xctv.
c| wf xcttc p{f^o» cdrcnqnev. c nqp{j^ap xcrcnk l^rki p{k^xc
j ci {vc c| clw^v c xgtmkugm *ngwgp xqncm+ o gi hrgn u^l Àpg/
vngvctqvcmc m^Àr³pd^{3/4} | gpgu^a o qmn^r4 3/4w000

ô G^l c ì Rk| kecqë/r qmc# ô nk^anq w hgn ì Rcrk d^aeulë0
Vci cf j cvcrp. j qi { c|²vgl²ut n²u ncr wnwru^at>n

p^gxg| gvu k^l u Àpcm| gpgk^luo gtgvko²i o^au rgnk^a ncr qv^À
go dgttg ku j cv^ou^ocn ngwgm xqrc. o kpv co kn^lgp rgnk^a ncr qv^À
M^lcwGf g xqiv gl gmlgp c pgi {gf>t^andcp0

ô Uqm ngugt^xgu pcr qv v^{3/4n}3/4wgo D²eudgp0 ô ngl fvg.
o kpv o kpf gpnk ngl fgp². cnk x^atcwcpwn d²euk xcrcgtngv j cm
c| wf xctt>r0 ô R^rpg. o knqt c nqxc^lpnv. Vqnk^v Rcvkpeq/v
n^lu²tv^Àmhgn²u o gi vgrvc dwul c c l> qu^l v^a nqmr²p|²xgr0

ô G^l r gfi o c| wtne. wi {cpeucm Utcwul w^r# ô o qpf^ovc
ì Rcrk d^aeulë c| wf xctv dg^v4w j cpi qntc hki {grkg. co gn^lgm
o kpf gp²tf gnm f²u²vrgn^{3/4}3/4w²n0

M^lcw À ku m^Àr³pd^{3/4}u rgnk^anq^lu^aqp o gpv ngtgu^lv^Àn c
| gpg j cpi lckc0 C|²vgtg gmlgp²u u^la^anqf^andcp. cj qn gff ki
u^lq^ra^arcqw vrgu^lg^lw. o kpf ki c ì n^lgn ngn ddë j gn^lgn^g hqt/
f wv o gi. cj qn vgt²u^lgw^lgt n^lgi pgo xqiv ì o kpf gpper k| gpgë.
eucm nkx²vngu cmcno cmqt0 Dk qp{qu Àppgr²n^lguu²i j g^l xqiv
u^lcdxc À { c Eculp>dgrk eki^ap{q^l^au. o kpv cn^rt c ì T>| uc/
euqmtë/dcp xc» | gp²r²u0 Vcn^lp gl²tv j cvqw M^lcw Gf²tg c
| gpg o gn>fk^llc#

C l> o gi hki {gn gmgpdgp²u^ltgxg^lgw xqrc. j qi { o^au

qnc ku xqrv c m³pdgp ul gpxgf²n{vgrppgm r³ul} » Mfcw
 Āpcm c| wf xctt>n j cpi | » xgtmk{j cpi qncv o²n³p{qpk0
 Wi {cpku c nup{j^ad>n cj qx^a Uxgtv³ n{p² xku| cxqpw^w.
 p²o gn{ fcmnp^an ô ¶ { c i Eki^ap{d^at>ë Uch³kg²r l²p²n ô
 p k²pgnj cpi qm j cmwul qwcn0 i G| 0 Cf²rë o qpf v c o ci^adcp
 MfcwGf g0

P go o qpf j cvpk j qi { j k vgrpp grj cv³tq|^aupcm gpi gf gw.
 o gtv c| gffki k v³pgv hqnc{co^ap l>n o gi kuo gtj gw^{Am} Mfcw
 Gf²v. Āi { o gi i qpf qm^ai^at>n o kpv Āppgr²n{gu²i²t r0 P go
 o qpf j cvpk j qi { ²vgr n xci { kcn>n o gi | cxctqf qw ci { xgn /
 xgn k²v² n²gf gw. o gtv. o kpv o kpf ki . o quv ku o²tu²mgvgo go dgt
 xqrv c v³uk 3/4³o 3/4³ngv qn{ o qj »p²rkgl i Rcrk d^aeum o gm²w0
 Ok v³4²pj g²gw vj^av Mfcw Gf²xgn co knqt hrgo gm²gf gw
 c| cu| cm>n²u c| wf xcttc p{¶ Āxgi clw j q| o gpvA Mkp{k
 v³wc c| clw^v2u c n³kgvng| rctceuv³cf v c| ²rrgp ul Āpg/
 vgn xgtmkugnp³gn<

ô Det^avko. l34lpggm dg j cpi ul gt^{Am}gn c vgtgo dg#
 G| v c rctceuv³cpp^an n³pp{gddgp nkcf j cwc. o kw³p
 c n²u f²nw³pk >t^andcp c| ²vgtgo dgp o^at ugpnk ugo vctv| /
 n²qf qw c| gd²f gn xgp²i gm n³4 Ān euw^ap c u³p²udgp Ār³4
 i²n²p²j^ap{ h³xctqu Uxgtv³ n{ Ā hgn^{Am} { grgv cmw0

C xgtmkugm pci { f³egp²u³gn vq³m dg j cpi ul gt^{Am}gv c|
²vgtgo dg. Āwv gt xgn hqi cm j q| |^a c j cpi ul gt hqti cv³u²j q| 0
 Okpv nk³gt^{Am}< Mfcw Gf g eucm gi { gwgp p>^vv wf qw c
 p>^vmn³4 Ān gl r gfk ¶ { ul >n<

ô Kvgp xgrgf. ô v³ngf xgu dqt l^{Am}ul grg#

G| v c ul 3/4gi gv²pgngng c| 3/4ul gu fcmqntc. co gn{ gm c
 | qpi qtc/xgtmkdgp tglv | vgn0

Kc| . j qi { grgkpv eucm v²h^aucp. Āi { pgxgl gw n²gf²n{gu/
 u²i i gn o kpv h³cmqt^adcp. co knqt gl v c fcm vcpwnc xcrj qn00
 kpn³dd ul gmgo gu²i g. v³tuc^ai^apcm *Rcrk d^aeukp²n²+ o w³v/
 v³u²tc ul^apv c fcm²un³v. o kpv²t| gm gk nkhlgl²u²tg0 Mfcw
 o²i c t²i k Mfcw Gf g *Gf w³tf + xqrv. cnk xcrj c c rgi pci { qdd
 wcm>n vcpwnc c| v. o knqt ngm ul gtctv³uqep xci { cm²qo /
 cf³p n²gf²n{gugp xkugm²pk j qi { c| go dgt grgi gv vgi { gp c
 v³tuc^ai k hqto^anpcn0 O quv gl v c fcm²un³v²pgngng. o gtv
 c | qpi qtc/xgtmk ul >n 00 c L>| ugh^atqudcp xqrv 00 0 gi {
 pci { j cuA 3/4gi Āt²cn o w³v| qw 00²u c nup{j^ad>n j cm p k
²pgngv j cmq³0 O^aunqt dk qp{^atc o^au fcm²un³v²pgngv
 xqpc0

U v hrgo gm²gf gw j gn²t n²u p²j^ap{ v³peir²uv vgw c|
 gd²f n dgp. o kn³4 dgp *v³peir²ugm n³4 dgp+ nk³pv j qi {

Micw Àtcm l>nu|cdqw twj^alc crw eugpf gu nku euceuk/
j cuc tglv|kn nř4 xgwgp c o gnřp{ crw. co kv dk qp{^atc
nřp{vrgp/ngngvrgp ul gf gi gvgw hgn o ci^atc. o gtv gi²u|²rg²dg
l>nuq|vq²n0

ô Cf²ř# ô o qpfvc vř4du|³/₄. o křvc gi { nřvjcwvcp
p xgn vřpeqpc. o knqt gi {o ci^adc x²i ki r qmř|qw c| gd²f/
n dgp. j qi { ì Rcrk d^aeukpcnë o gi křv eucm nkř Ångfv c u|go g.
o křvc pgo ku gd²f gnv xqpc0 ô Cf²ř# ko^af qo ³/₄p# ô hqn/
vvc Micw Gf g gi { vřpehqtfcwvqv vřxg. co gmřgn dgdk q/
p{řqvc. j qi { j clf cp^adcp c nři lqdd j gnřgnrgp vcpwnc
o gi c r qmř v0

C vřpe wřp Àlcdd o gi nřgvřuagn ul qn^anc ì T>|uceuqntë
h r kpe²tg0 Vku|vrgvrgvgup l^atwv r^atvhqi >lc. xgp²i nřv
wvc. R²pygm À. xci { c| kvrgp ì Rcrk d^aeukë p²x crw kuo gtv
kf u Àtgo dgt grř<

ô Gpi gflg o gi pci {u^ai qu wco. j qi { c o ck rnu/
o^apnvco ci co ku o gi ř guřugo p²j^ap{ r qj^at dqtcr0

Gv c t²ik Micw Gf g o qpfvc o²i. cnk wřvc. j qi {
o kxgnvctv|kn^anř u^ap^anhqi xc c xkř i pcn0

ì Rcrkd^aeukë gř²| nři o quqn i qw<

ô Xcn>dcp pgo c nři tqul cdd g| c tk řpi # ô o qpf gpi g/
f²ngp{gp0

Micw Gf g hgmrcv c| Āgu Āxgi gv c| cu|vrc>n²u gi {
r krcpcvcrwv uřpvřudgp vřto gwc| Āxgi i gř0

Mř4 Ārdgn Ān pgi {gf>tc vrv gn co ř c| Āxgi ul ř Ānki
o gi vř4xg xku|c²tng| gw j gn²tg²u c| ³/₄p²u uqttgpfl²v o quv
o^at Micw Gf g xgw^av0

ô Kc|. j qi { c o ci {ct dqtqm pgo xcnrcpm ul²i {gpv
c xkř i qp0 C vřnellp²u ul co qtqf plp nřk Ān xcp ucuj gi {křm
pgu|o²n{křm dcf ceuqp{křm²u c vř4dkgn0 Fg c o ck per qp.
pci {u^ai qf l>xqn^ad>n²u vřtuc^ai^adcp. gu|go dg lwqw hrcvř/
nqtqo pcm gi { r^at o qo gpwo c. co knqt o²i xcn>dcp wřvc
²řg|pk c| ²rgvř0 G²tv d^avřtnřfvc hrcpek dqtv^anřřcpk
c| cu|vrc0

*G| o²i o křli c t²ik Micw Gf g xqnv cnk r qj ct^av hgn/
go gřxg. ²u gi {dgp o ci c ku hrgo gmřfxg hgmř4u|³/₄p²vřwg c
řku|vrgvdgp^am kř ugdd wvc0-

ô Pq. ô hrgvrc| kř ugdd Àtgo dgt. ô j qrpccr. xcu^at/
pcr Āi {ku c p x²tgo²np²n gd²f gřgm cnk hrcpek²u nřp{j^av
xg|gř0 L> p²j c x^anq|vcpk c nřu|vřp0 Tqwgpk nřeuc ul q/
nřw rgppk xcu^at pccr. o²i r gřli qnřcp nřeuc. co gnřpgm
pgo gtgu|řm nk c x²t²v j cpgo c p{cnřv nřeucxct^am

r gtu| g. grgxp^a mcr qwcp0 P x²tgo x^{3/4}udqtdcp r^atrlc
²u rldco^a llcnur² ngrk0

Micw Gf g nleukv o gi j^{3/4}mgpv c| ^{3/4}gi À x^arcu^atc
 Xcn>dc< c| grgf gn co gn{t n dgu²n. pgo xqrv²rrgp c ngi/
 tqul cdd. i {cntep ul gtgr gn c hkpqo gd²fnggp. c Eculp>>dcp/
 Fg o quv ctt>n c dqt>n xqrv ul>. co gm{gn i cxen²tqucp
 nfp^anc o gi c| ^{3/4}gi wcv 0 0 0 P go ku wf^avc o ci^a dcp v²tv |/
 vgpkuqm^a c| ki c| u^ai qv0

ô D^at wfqo. j qi { ì Rcrk d^aeulë kpn^add c| ²vgrngv
 ul gtgk o kpvc| kcnqnev. *ì Rcrk d^aeulë d>rkpvw.+ o gi ngn
 xcmpk j qi { gl c dqt pgo o kpf gppcr k0

ô P go. ô hgrgv ì Rcrk d^aeulë ²u c r qj^atdcp r²x o ctc/
 f²nqvrn² w| gpvvgw o gn²p{g cr^a0

ô G| v c dqtv. co ¶i Æxi²dgp xcp< cffki Oq²v gv
 Ej cpf qp K r gtl²rcm j ¶kl^am fg rgtul g ugnk ug ku| c c nk/
 j ¶k> ²u hgrekeqo^a | qw Æxi l²d n j cpgo tgpful gtpv^a v²pkm
 xk gur crcenc0ⁱ { vgu| Gu| vtj^a | { ²u U| cr^at { Rcrk k0

ô Pci { qp l>nvgw²m ô hgrgv dgrggi { gl ngi c| ^{3/4}gi À0

ô P go uqm r crcem xcp dgn ng hqti cmo dcp. fg c P go /
 | gk Eculpq r kpe²l²dgp o²i xcp p²j^ap { r crcem g tknc kcn< r0
 Qppcp d^avtmqf vco j q| cvpk gl v c rrcenqv. o gtv o k t²i k
 ncu| kp>k go dgtgm o²i o kpf ki ngf xgl o²p { gndgp t²ul gu²/
 n²pn0

ô C dqt xcn>dc< pgo tqul ô hgrgv luo²v eugpf gu
 grkuo gt²uugnc| ^{3/4}gi À0 ô C r w^anc o gm ugo tqul ì tqwplë
 o >ftc. co kv wi {cpeucm c p x²tgo²mp²n ul qmcm xcu^a tpcr qp/
 n²pv v²rcpk0 X^a llqp o krgul j qpcr AMceuc xci { r w^anc A

Micw Gf g gmuqt l²rtg²vj gvgrp Æn o gi xgv vgnkpvgrv
 xgvwcl^a dt^a pf qu Àlgo dgttg0

ô Kvgp xgrgf. ô vg ngf xgu dqt l²ul grv# ô ²pgngvg
 hppj cpi qp. o kw²p c xgtmikgm Àtc f qri q| pkngr| f vgn0

ô C Y kpgt Y crf 00 ô o qpf vc c| kf ugdd Àlgo dgt.
 r gf ki v²p wi {cpc| v c r qm^av l^aul qw²m c j cpi ul gt²ul gm
 co gn{gv gff ki hqti cwemj cpi ul gt²pn²0

Micw Gf g hgr^amqw c| cu| vcn>r0 Gi { r qj ctev o gi v²/v²
 v²vc htcpek dqtv vctvc c| > xk gu Æxi d n nct^atc xgvw
 gi { ul crk²v²u c nup { j^a dc xkwg v²p {²tqpc i {³pi {³

ô Pci { u^ai qu cu| qp|. ô o qpf c ngj gv ngi pci { qdd
 vku| vgrvgn c nup { j^ap hqi nrcvqumf > Uxgtvgr| m²p²pgm cnk
 gi { r kncpcvc cddc j ci { vc o vpr^al^av0 ô C ft^aic l> ì Rcrk0
 Fceulë n²p. j qi { ki c o gi ngf x²tv. gi²ul u²i²tv gl vc r qj ctev

ô ». c x²p dqrp# Ok lw gul²dg#6 hgrnw Uxgtv\ m{p²
²uhgrj clwvc crqj^at dqt\0

ô Oqplc o gi pgnk Mtcw Àt. j qi { c l³k ul qo dcvp
 Àtc gr³j gv gd²fgrp0 O ci^apcm ku xku qpvr^av^autc gi { j²v
 o Àkc. ô ul »nw Uxgtv\ m{p². *gi {nqt Cf²n+ o gtv o^at lcx^a/
 dcp dgppg xqrv c xceugtch |²udgp0 U| qo dc v xqrv. ô pci {qdd
 v^atuc^ai n^avqi c\c c xgpf²i n \0

ô Pq ki gp. ô i qpfqnc o ci^adcp Mtcw Gfg. o knqt
 o^aupcr c l>| ugh^atquk nk^apf w^auv nkr kj gpxg. ku²v grhqi /
 nenc jgn²v c ìT>|uceuqntë/dcp. ô n³4ÀrdgnÀn j wu qp³k
 jcto kpe gul vgpf gn w xqrv cmw^arku c| Æi {0 Ok c hgp²v ku
 cnetwo c| qmenc xgtmkugmgnA

O ~ TC HGTGPE

3: 9;/3; 56

O KMQT | P VGNMGUI C\ FC XQNVCO

Gi { o kpf gp xkfi k jwpewu^ai dcp l^atv cu dca^a vgo c| v n^atfk v ngo c o kpcr. j qi { o k²tv pgo lgrgpvng| go ²p h³/f/ ki ²p{n pgn0

ô | pA J^av o^at j qi { lgrgpvng| p²o A J ku| gp pgo xci { qm²p ug rctcu| v. ug tqm^aepvne^aqpc0

ô Cpp^an v³/d n^ak^av³uqf Xqipc t^a. j qi { h³/f gv ner u| 0 Gdd n^a v³pxcn». j qi { c dca^a vgo j wo qtkuc0*Xcp ku

t^a lwuuc. o gtv m^av³/pdgp vgo gng²|²uk^av³tuw^avk vku| vxkugn ²u vgu²m o gi hki { gpk j qi { cnkm c j c^an^acn xcro k ³/u| g/ n^av³udgp xcp^acm c| qm o kpf j clro quem c j wo qttc-0 J^av ²p pci { qp u| gtgvgo c j wo qtku^anev. fg o²i c| ngf/ x^an^atv ugo ki ²p{ngm h³/f gv0 Gi {u| gt o^at o gi rt>d^anco. fg cmqt Ài { o gi²i gvg c n^auc c u^ao cv j qi { ²p ctte o²i gi {u| gt t^a pgo n^ak^a pgn0

Cmqt xqrv c|. co kmqt c| kun^adc dgc^avcm²u c| gi²u| j^a| qfexqrv c| ³/4³o v n j qi { ²p c m^av³/x^acn ngxgtgf vgo dca^a vk xku| qp{dc c nep^au| k xci { u| euk^actk r^an{c j gn{gw0 *O gtv euc^afl^ao u| gtlpv gttg c ngw tg rgwgo xqipc rtgf gu| v^anc-0 O²i c U| cpe m^av³/pm ku c| | cn wi cwc gn c ner vj cuc²nt>nc eki^a p{i {gtgngv<

ô Qr/j qr/j qr/j qr/j »# Pgm^apm o^at fkm h^avpm xcp# Eucm²p pgo cnetvco ugj qi {ug dgrgu| qnpkc wf qo^a p{qu

²rgvd0O^at c j cto cfkmr crv^a d^av³/vgo gn fg o²i o kpf ki pgo v^anco ugo o k ³/4³o gv c m^av³/dcp0 O kmqt rgf ki qf^a ki ²tv^apm j qi { gn u| ³/4 p{qo vcm vmev c ngl go dg. o clf t^akc hcnf vco 0

Rgfi rktqu u^atc. o gi t²| p{cne xqrv²rgvo l³/k^agpf dgrk

nfp| »u|gtu^ao^apcn0 | fgucr^ao o ci c x^au^atqnc c Xcn>fk
dqnqup^an cnkv c|²tv vū|vgnm ¶|. o gtv o kpf gp rqt^vnī^la^v
c| |cncī^apnqvc. j qi { i xcn>fk0

ô G|xcn>fkncmo wu. ô fleu²tvg c r gpp^av0

ô U²r u|gtu^ao. ô w>f¶qwc ²fgucr^ao 0 ô -i {/g.

j qi { u|²rA

ô U|gdd c xcuxknc. ô o qpf vco f wte^aucp0

ô M&pp{ u|gtu^ao 0

ô M&pp{gdd c netknī uquvt0

ô [~]t^auwf>pcm o qpf l^am c|v. cnk g|gn d^appk wf0

Gttg o^at nkdwi i {cpv dgn rgo c nqugt u²i 0 H&fj ¾
x^ai vco c rktqu vqncv0 Pgo cnetqm ²p ¶^auwf> rppk# | p
i c| f c go dgt cnetqm rppk#

ô Okv cnetu| vga ô p{wi cu|vqvc ²fgucr^ao c x^an/
co qp c ngl²v. fg Æi {^ao. j qi { gi {u|gttg hgmcr vco c vqncv0

ô Lcl# ô o qpf vco. ô knī dd ¶^auwf> rgu|gn0
Cr^ao c|^amco cī^a vgw c vgp{gt²v0

ô O^auv o qpf qm ²p pgnf. hco /wco 0 J c rvgu|gf
c| gz^ao gpvq v p^attc dg^anj cw| r t>dcī c| f^apcm c o ci cf
h&f l²p0

Cmqt kdep o²i dmqpf^a rñj gvgw vppk c| go dgtv
c u|gdd l³x xgn lqdd l³x xgn0 *Oc c r>n^aui {gtgm ku gnkxcn/
nqflc o ci^av. j c c l³x gpf t n dgu²ipgn< i pq j^av. pq j^a w&+
Pgnkxgugmf vgo c wf qo^ap{pcm u cmqt c lwcrqo nīp{ xgv
nrc vco c xkī uī^ap. j qi { crki d¶^avco j c| c0 *Pci {qp cmcr cu
lwcrqo nīp{x xqnv. c| xqnv c e¶p g< Cf qo^am ²u xgu|go ²m
¶^aw Fxqt eu^am L^apqu0 G| xqnv c| gnu mcu| knw ¶>. cnkxgn
o gi kuo gtngf vgo 0+ | fgucr^ao u|cxcvct> go dgt xqn0 O^aupcr
nkdcnci qw xgrgo c u| n pndg. qf c^an¶^aqw c r wu|w h&f
uctnī dc0

ô N^avf c|vc xcnqpf qm v^auA

ô N^avqo 0

ô J^avc|vc o^auknevA

ô C|vku0

ô Pq j^av. co k c n²v Xcnqpf qm v^au nī² gukm c| c
vg h&f gf0 V²i {/x²i { telc. cj qi { pgnf vgv| kn0 | p dgrg
pgo u| »qm o gtv²p eucm| qo u|²f qf rgu|gn0

Pgo pci { xqnv c h&f. fg xqnv cddcp o kpf gp0 Gi { dqnqt
u^ati cf kpp{g. n²v dqnqt ucī^av. j^atqo dqnqt mmtlec. p²i {
dqnqt u^ati ct²rc. ¾ dqnqt o^an= o quv nī² Andgn^an c| ¾¾ km
hk gv²uk qu| v²n² hrgn o gi pgn0 Dwnhpegv xgvwgo xqpc
¾¾¾ ¾ dgp. j c kf glgnqt^ap gu| go dg pgo lw. j qi { c nkū c| f^am

pgo ul qmcm dwnhpegv j^ap{pk0 *O²i cmuqt pgo ngt^Ångm
dg c rctno gpvdg0 i { eucm n⁴Åp²| vgo tci {qi » qte^axcrκ
wi {cp n¹v^an¹g uqncp c| Ål h⁴f dktvqnquvA

Pgo n¹vqw dk¹ gpi go gi { x²p xctlÅp^an gi {²d. c| ku
c| vo qpf v. o knqt ngtgul v^Ånu¹ a mvc h⁴f go h⁴f⁴wκ

ô M¹t. n¹t#

Pq c|²tv ku o gi o wcvqo. j qi { pgo n¹t0 M¹rvco c
n¹r^av²u qn{cp ul gtgpeu²ugp o gi n¹r^anco c m¹nuqt^ao.
j qi { o kpf c j^atqo dqntqvngtgul v^Ån^ai vco c v⁴κ²p0

ô Ugdcl. ul qo ul²f. ô xki cu| vcn²f gucr^ao. ô rgi c¹dd
gttg pgo ngu¹ v⁴dd i qpf qf0

Qn{cp o w¹n¹u p{ctco c| »v ug xqrv r g f ki c| »v ug
ki gp v⁴n⁴wgo n¹i { h¹i^au¹cn c p{ctcko cv0 J »n{ci qutc v⁴vgo
c ng| go. lcli cwco c p{cnco tc. p{³4 vgo c fgtgnco tc.
»nqo pcm²tg| vgo c n¹dco 0 C v¹gl²dgp r g f ki²f gucr^ao
o kpf ki c| | cndk¹ vcvwκ

ô Pqqq. Hgtgpe ul qo ul²f. ngu¹ gl o²i tqul cddwnku#

J^av r¹w ku0 Ug n¹u| cvlc. ug h¹i cpcvc pgo xqrv c| ki {g/
ng| vgo pgn0 C o^an¹cko cv o kpf n¹h¹mt n¹nc c h¹wtw¹a u/
dq^at= c u^ati ct²r^ao pcm eucm c r¹xgrg o ctef v c t²r^al^av
o gi gwg c eugtgdq^atm¹nc= c ucn¹v¹o pcm r g f ki²r r gp
r¹xgrg pgo o ctef v r¹g| cd^anc c euki c0

Pgo o ctef v c i c| fcu^ai d>n gi {²d. eucm c f kpp{gdqnuqt.
f g gl c| v¹p o gi ul gp¹xgf| gwv c| gi²ul²t v0 J c r¹xgugv n¹euq¹/
vco < u^ati w¹nc j c uqnev n¹euq¹nco < h¹ngv¹gw¹nc j c c pcr
u¹Å³κ h¹pp{cf v j c c pcr pgo u¹Å³κ d^ai {cf v0 O knqt
xk^ai | qw< o gi ul ci i cw c l²i gu = o knqt n¹Å³κ o gi xgtv
c tci {c0F kpp{g²t²utg pgo o ctef v v⁴dd telv n¹w p²r0

C| qnev c| v¹p. o knqt²t h¹rdgp xqncm tk¹vgo tgi i gn¹v
guki 0 O²i c fctc| ucn¹v ku gmgti gwgo t>n¹n0 J cpgo c|
cr^ao cvj k¹dc n¹tvgo. pgo p²| vgo gi c f kpp{²ko gv0

ô Pgo cnetqo n¹v o gi xgtpk ul go o gn0 O clf. j c o gi /
²tpgm ul qo ul²f0

P{^at x²i²tg o gi²tvgn0 lgrgpv¹wgo c| cr^ao pcm u
gi {Åw dcmei wpm nk f kpp{²v ul gf pk0 Cj qi { qf c²tÅp¹m c
o gui {²tg. gnclf qo o ci co <

ô Lcl. c| gi {knf kpp{²o gmqr v xcrκnc|²1u| cne#

ô Gn c| v ô d>n¹kvq¹t^a ²f gucr^ao 0 ô J lc. ul qo ul²f.
c>n¹qr pcm cnk¹ n¹xcp o k0

Pq. rgi c¹dd c| gi {kn¹v o gi j ci {v c| c l> go dgt.
ngu¹ cne¹vqo c| kpf^at>n pgnk h¹i qo c n¹udleu¹o c tk¹ceuqu

ô J qj ». ô nerc o gi c ngl go c| cr^ao. ô j^av
j qi { i qpf qmf gl vAG| v²p xku| go gncf »dc0

ô Cf »dcA

ô J^av j c²p tclwco o gi xgu| km c| cf »v c h²/4f go²tv
²p ku o gi xgu| go vgtclwcf0 Kk| gp c i c| fc uqtc. rnmgo i {g/
tgmgo 0

Xerc k ngugt xgugp gr[¶]j cwco o ci co gttg. o gtv o kpf l^atv
o gi ul^apvc| cr^ao 0

ô Pq. pg h²rl. c flpp{²f^at^av pgnrf cfqo 0 Xgi gw|
tclw xgv o ci qvl³/k gu| vgpf tg0

ô Kpn[¶]dd n[¶]p { xgvxgi { Apm²f gucr^ao 0

O gi ku xgwAm c| Kvgpl²n I gpqx²xc j k[¶]v »tk¹a v²u ¶ {
rgwdgn rgo ¶^auwf »0

G| c| ²rgvo h²wo c0 Cmmqt xqnco rcteu| v. o knqt c|
xqrv c| wqrv » o gvgtu²i u cmmqt xci {qm ¶^auwf ». o knqt
eum¶^auwf cwrppcm²tf go gu rppk0

CVVKNC LGNGP VMG\ KM

J c c hglgo gn[¶]km ug wf qm t^ago r²ngl pk j qi { xcrj c
o gi d^apqwco xqpc c| Kvgp quvt^av0 Pgo k²wco t »rc ft^a/
o^av. pgo eul^anco dgn rg tgi²p {j uv. o²i eum xgtudg
ug ul gtnl vgwgo dgrg uqj c0 O kpf³/4u| g gi { kunqrk v²h²v
j q| wco t »rc h²ti crqo dc. rñj gv cppcm o^at xci { v²gp³/4
gu| vgpf glg0C eu »n[¶]kunqr[¶] dcp xk[¶] u^a| wvc| gur gtgu0

ô Pq h²co . nkxqrv CvkrcAô n²tfkc i {gtgng0

C i {gtgm eum v²qi 0 U[¶]i pcm pgnk c j^aw o ³/4 ãn c wf »/
ucddcm<

ô Cvkrc j ãp nk^an[¶] x »000

C i {gtgnpgmh³/4eukrcp c ul go g0Mk^ai lc d^awcp<

ô Cvkrc j wp nk^an[¶] x »v. j wp pgo #

Fg j^av gl eum qn{cp^atwrcp hcnuk hi w^a|^au xqrv0
U n[¶]pdp ug²p eul^anco. jcpgo c eu »n[¶]k rcr. cppcm
rgf ki ul cdcf xqrv. o gtv c| qn{cp ki c| k j ãp kxcf²m xqrv. j qi {
gi {ul gt dk qp{qucp. o kpv tedqpd^ap l³/p xku| c c jcfcm
ã^ap0 *Ngi cr[¶]dd ku c| WMMQ RQJ CTC dgppg rgu| c vetku| /
p{^al^adcp0 J^av cmmqt o k²tv jctci ul km c| Kvgp quvtc²u
m[¶]p³/4ugp o k²tv²p t^ao jctci ul kmA

O gtv. j qi { plpeu l»dcp xgrgo. c| | cn vku| v³dcp xci {qn0
 J Àu| gu| vpf glg^a un¹ nqm c j c^v tdc. fg c j Àp nkt^a n¹ o²i
 gi {ul gt ug vñ¹ ncwc o gi o ci^a v xgrgo 0 Kc|. j qi { ²p ku
 j k¹a u n¹ j gvm dggpg. o gtv pgo ku ngtgugo uqj c0 O kpf ki c| v
 vctvqwo. j qi { c| Cwkr u¹ l¹ v o gi n¹ j gv vñ¹ pk fg pgo
 n¹ j gv ngtgupk0 O quv o^a t dgr¹ vqo. j qi { crki j cpgo v² xgf vgo 0
 J ku| gp xqrv qn¹ cp t²i² u| n¹ n¹ i^a o. Kvgp p{ w¹ v uuc u| gi² p{ v
 cnk r tqi tco o u| gtpv ngtgug c pci { nkt^a n¹ v² u o gi ku vñ¹ nc.
 pgo ku gi {ul gt. j cpgo j^a tqo u| qt0 Cnk v n¹ i wqñ^a tc vñ¹ n¹
 c ppcm t^a ku xqrv n¹ xc c n¹ r qtu» l^a tc. j qi { J K E LCEGV
 CVVKNC TGZ0 G| u| gp v¹ u. o ci co u| go² xgn qrkucuo c|
 qf excn» Àu^a i dcp0

J^a v gl pgo u|² r c pci { Àt» r0 Gi { km j gn¹ gp j^a tqo
 r² n^a p{ dcp ku gn ngt Àpk c o^a uknp o gi gi {dgp ugo ô gl
 pgo j Àp nkt^a n¹ j q| o² n» vgo r»0 Fg c Xk¹ i R³4³4¹ g o²i
 vx^a dd ku xku| k c xgrgo xcn» n¹4³4¹ n¹4² u0 O²i c p² r² pgm ku
 o gi vñ¹ qwc. j qi { c| ²p^a u» o cr¹ ngt À¹4³4⁰

Cnk hki {grgo o gn n¹ l² tk t²i² u| gk o q| i cm c k pnev. c| v
 xgj gk² u| tg. j qi { r^a t gu| vpf »c eucm j Àp euqpvqm ngt À¹
 pgm gn c o ci {ct h¹4¹ d r0 J ku| gp t²i gddgp ku cm¹ v cm qn¹ cp
 u¹ l¹ qm co gn¹ gntg uqm v³4¹ t gpi² u. j Ào o ³4² u. ³4¹ u| gxg² v u w³ p
 gi { nku x^a mkqpqi c^v ucn c| v o qf v c J co r gn L»| ugh xci {
 Rquc D² n. uqm v n pcm^a r f qw v p¹ l¹ » o gvgtgk j qi { w»/
 x² i tg gl gm j Àp u¹ l¹ qm ku n¹ j gwgn0 Fg c| qndcp c| k¹ n¹ lgp o^a u
 p^a ek» m ku vñ¹ m u| vcm c h¹4¹ crw0 I gto^a pqm u| cto c^v m
 lc| ki qm² u gi {²d m¹ p euqti » p² r gm cnkm kv dqrv wcm dgrg
 c u¹ l¹ m i ³4¹ t kdg0 M¹4³4³4¹ gp c lc| ki qnev n¹ f xgn Àm c h¹4¹ gdd
 xcn» gu| vpf dgp c Fwpc/Vku| c n¹4¹ v0 Cnk xgn pgo w¹ wpm
 o k¹ g o gppk c| v o gi lc| ki qu¹ l¹ q wwm o gtv. vgu| km w¹ pk
 o kpf ki o kpm xqrvpm c| qm cnkm grp{ qo w m c pgo | gv² i k
 nkugddu² i gngv0

Fg j^a v x^a nq| km c f kxcv. ngo Àn c fleu u² i c lc| ki qm» n
² u o quv c j wpqntc xk tcf v h¹4¹0 —i { gn| er qtqf vcm c o ctf² m
 o ci {ct h¹4¹ dgp. j qi { j c c h¹4¹ h¹4¹4¹ v xqrp^a pcm c p{ kcp.
 cmqt c u| qo u|² f c kpm ³4¹ gp j c v h¹ r¹ u| cmf p^a pcn0 P kpeu
 o^a t ug u| r¹ x. ug i gto^a p. o²i j c xerj qi { t» o ck r¹ i k p^a tkw
 euqpv^a v xgk ku h¹4¹ c|^a u». eucm o gi n¹ gm ner ctpk u cdd» n
 ku gi {ul gttg j Àp euqpv d À kmgn 0

Pgo o qpf qo. j qi { pgo ³4¹ À¹4¹ m c f qm i pcm k¹ gpv
 pgo ku u| cdcf o qpf cpk² u M¹4³4¹ pdgp ku c tqo cpvkr o kpf gp Àw
 u|² r. fg n¹ i u| gdd c t²i² u| gvdgp0 C| v³ p o gi² p pgo ku xci {qm
 qn¹ cp tquu| j c| chk u u| k p² p ³4¹ À¹4¹ m Cwkr² t x² p{ gu À¹4¹ u² pgm

o²i cmmqt ku. jc c| c|²p tqx^auqo tc o gi {0 Ogtv dg ngm
xcncpgo. j qi { o kvc dg^{3/4}w c j Ap fkcvc. c| »vc²p pci {qp
reu^{3/4}mgpgo ul cni^{3/4}gvdp0

ô Wi {cp# ô p²|^{3/4}ul g c j^avc o^{3/4}^{3/4}w c rmgm klcdd
pgo |gf²nô X²p ul co^at o^at c|^{3/4}gi. pgo j crcf c nqtten
pkpeu o »f ul gtg0

Pqpq0 Pgo ul gtgvggo ugnkpgm c|^{3/4}^{3/4}o²v o gi tqvcpk
fg cpp{kv o qpfjcvqm j qi { c|²tv pgo tqul o »f ul gt c|
gp{²o. co k o kpf^{3/4}ul g cpp{k j qi { nk ngm x^atpk o kpf gppgm
c| kf gl²v0 Pgo l^atvco w³pc Cwk³pcm gpp²rhqi xc Cwk³
ngtgugw l^{3/4}n gpi go 0 Gi {gn tg rgtul g pgo ul go²n³gugp. eucm
n^{3/4}kgv m^{3/4}af^{3/4}0C nqrqtu» o²i ku eucmi^aqrhc c| go dgtvc o q| /
i^aukul cdcf u^ai^adep. o²i j c qn{cp pci { At ku. o kpvCwk³0

Mku ul go dgt c j Ap nk^an³ n^{3/4}kgv. U³vt U³pfqtpcm
j³l^an0 Pgo j kul go. j qi { r²rf^awn Dk^apedc ku v ul crclqvc
xqpc Cwk³. fg j^av c|²p ul qd^ao dcp pgo uqm dk^apek u³ru
xcp²u²p ug pci {qp hqto^a | qo Vj gqf qukw eu^aul^atv0

ô Pq. o k l^atvdcpc xcp. d^aeukn³o A ô n³tf g| vgo v rg
eucm³ { cmctvdtkn³ |^a u n^{3/4} dgp0

ô J^av n³t o. c| v i {Awgo o^{3/4} lgn^{3/4}pygpk j qi { o^{3/4} xcp
c| Cwk³ nqrqtu»lc0

ô Pq. j^arc Kvgppgm ô mwmcpvcpk nk c|³ud»n ô
Mkpvj ci {vc c hqn³»pA

ô Pgo. fg j qi { . ô t^a | vc c hgl²v. ô o²i c x³ dg xcp0

ô Rgtul g. rgtul g. c Vku^a dcp. wi {/gA

ô K³pluqw. n³t o. I {gxko gngwxcpc Vku^a dcp

ô N^avc ngpf. wi {/gA

ô Pgo. n³t o. pgo²p n³wco. j cpgo c n³v n^{3/4}^{3/4}ul /
hco 0Telvc ku^a mcmc nqrqtu»p. ogtv nk xqrv c x²i g c xk³ d³0
T^aj³vc m c nep^aul dqvcn fg qu³p gnu| crcfvc m ogtv c|
Cwk³ grclcf³qvc o ci^av0

ô | lp{g/j glp{g. fg n³t xqrv. j qi { gnu| crcfvc n0

ô J^av w³lc. k³gf u c| kn{gp i {gt^{3/4}n³rg0

ô J^avi {gtgnmxqncm^a

ô O^ap cddc c| kf dg o²i qn{cp uwtdcpm»m x»vcn0
Ogtv t²i³p v^{3/4}v³pv o^ap gl. o quv U gpv Kw^apnqt n^{3/4}ul
j Au| gu| vgpfglg0

ô J Au| gu| vgpfglgAJ^a vj qi { pgo ul »ncmj co ct^addA

ô ©i {gv ug xg^{3/4}vgm t^a o²i cmmqt0 Fg j qi { o quvcp
o kpf³ph³ nwtg³v³n^a m c| Au^ai rcrqndcp ku c| Cwk³n³v
o^{3/4}n³r|^{3/4}w gn wAp m c nqrqtu». qu| v c| »vc ug² lgn³pm ug
perrcnpn0

ô C| v̂ p o kv v̂j gp² m² p gddgp. dª eukfª o A
 ô Jª v j c o ci c nku| ãxguni¼ pg. o ¾ o wcvª pm o ciª pcm
 c v̂¼vj gn{gv0
 ô Dgpvc x¶| dgpA
 ô Qwª o. n̂t o 0 Oquv wi {cp o ci qu c Vku| c. fg c
 n̂i plmw c o clf o ¾ cr cu| v̂0 Cmmqt oª t pgo n̂¼u| v̂¼dd
 c x¶| qn{cp p² i {o² v̂¼³ap² r̂f0
 ô Fg pgn̂go c| ku o² n̂ª o. dª v{cP go xci {qm² p
 xk| kdãªª t0
 ô Pgo ku ãi { n̂¼u| c|. j cmlc0 Dgr̂ãNãpm p² i {gp gi {
 eu»p{knlc. qu| v gi { xcur ku| mclª xcn o ¾ f³ãn̂¼ lãm c Vku| c
 hgp̂gnk0Cj ŵp n̂r r cp. qwc n̂r qtu»0
 Pq. c| v j ku| go. c| ctejcgq̂i kc o kpf gp khlã f qmq/
 tª pcm gn n̂gm kuo gtpk j qi { gl c r̂i o qf gtpgddª ucª uk o »f/
 u| gt0ª t³o go dgp o gi ku n̂pª nco c i {gkx t² i² u| v gi { xcn»/
 uª i qu d tu| kcttcn co gn{ eucm gi { j gn{gp xqrv gn̂¼xg0
 *Co ktg² p i { ãv̂wco tª. c| vjª tqo j gn{gp n̂gn̂ghq̂nq| p̂k0
 ô G| v ku n̂¼u| ¾p³o. f k̂gmqt ãt. ô j clqrv j q|ª o
 dk| qf cm̂ cucp c n̂¼xgv0ô J cpgo . j cmlc/g. oª u dcl ku xcp0
 ô PqA
 ô Gi { nku lwĉm̂o n̂¼ngpg c Ncleukpcm o ¾ c
 Ĥgteukp̂gn0
 ô Jª vc| qmo gi n̂leuqfª m̂A
 ô P² pg. c n̂¼¼u| v̂ i {gt³ãn̂¼n0Vwf lc. c p{qo tc xgl gv² u² t0
 ô Vwf qo. jª v j qi {pg wfª pª o 0 Jª v n̂gp̂ wf lc/g.
 j qi { o kn{gp n̂r qtu»lc xcp c| C v̂kc n̂tª n̂ pcmA
 ô | ten̂r qtu». ãi { i qpf q̂m̂o 0 C| kn{gp lgr̂¼i j ĉm̂wpcm
 c| f ŵn̂ r̂f0
 ô C|ª o 0 M̂kãN̂ xcu n̂r qtu». cddcp gl ãv̂n̂r qtu».
 n̂i dgn̂no gi ctep{n̂r qtu»0
 .. tgi n̂n̂ª iª o pgo pci {qp euqfª m̂q| qw gn eucm o gi /
 dleegp̂gwg c ĥgl² v0
 ô Pci {qp ucteq̂j cwc c p² r gn̂¼c| c| C v̂kc0
 ô Jª v c| oª t o kpf gi {. ô xª i wco gr̂ dg c v̂¼v² pgv/
 ĥkq| »ĥck ĥglv̂i gv² ugn̂p̂gn0ô C h c|. j qi { xcp gl ãv̂n̂r qtu»
 ku. o gi ctep{n̂r qtu» ku0 Jª v o kv u| »r̂pc n̂gp̂ cmmqt. j c c|
 ctep{n̂r qtu»vcf pª pmlwcm̂ wnc Ncleukpcm o gi c Ĥgteukp̂gm̂A
 ô Uq̂n̂m̂o. ô n̂r w c ĥª n c ĥgl² v Uª vqt Uª pf qt. o kp̂v
 n̂gtgu| vcr c0 ô .. r̂i gn̂¼o p̂gn̂km c| gl ãv̂n̂r qtu»v ku0 ©m o² i
 ĥcv̂n̂mpgo qn{cp gr̂u³¼v³¼gi ¾m o kp̂v² p xci {qn0
 ©uug rctv. ô o qpf qo. ô jª v cmmqt r̂i {gp c n̂gp̂²
 c| ctep{n̂r qtu»0

ô Qu| vo ci c dg²tkc xcuucnAô euqf^amq| qwU³pfqt0
 ô | p dg. ô gt un³4 vgo 0 ô Vwf lc. c o À gwo pcm c|
 kul»0

ô Pq. n¹t. j qi { o ci^a dwncf »dgu| ³/₄³/₄pgo n w. ô hglg| vq
 dg c v³ti {cñ uv Cw¹nc n³4gvg c dct^au¹i qu n²|t^a|^au w¹p.
 c| |cn euqu| qi qw nk c| cl»p. j qi { o clf j ¹/₂v^af. j c o gi/
 rrr cf c Vku| c0

Mkx^atv¹xc c| qpdep xku| ceuqu| qi qw0

ô J cñlc/g. ô j clqv j q| |^ao uwi fqñ| xc. ô c| ti t»h/
 pcm pg u| »rlq^ao c| Cw¹n¹t»r0

ô O gn| km ti t»hpcnA

ô C| Gug¹mx¹ku/Rc¹ceuk¹lp {kpcn0 *T³/₄k¹f u²i qn¹d»n
 c r cñ²tq| qwedd p {gnx o ci {ctqm eucm ¹/₂ { o qpf l^am c
 Rc¹mx¹le¹pk0+ O gtv c| dk qp {qucp t^aa euk¹pm| pc c| ctc p {/
 nqr qt»tc0

ô F gi qi { u| »nqm ô o qpf qo ô pgo xci {qm ²p
 dgu| ²f gu qñ {cp pci { v¹cm¹er0

J^avgddgp o ctef w¹pn0

O~ TKE\ \ UK O QPF

3: 9; /

O f TKP! PK

ô Ukuugp. eucm ukuugp0 U| crqt^ap. pq0 kpf wn c xqpcv0
O ctkp²pkpci { ukw²dgp o gi^am0

ô Lcl. ²p wtco. vgtgo v o. eucm v^ap pgo jci { kw.
xcp rmg0

Gi { /n²vgo dgt gr^o quqn{ qf km cnkj cmc0

ô O²i c i | ³upgm ku rgi {gp rmgA C| go dgtpgm ukpeu
o cper u^ai #

O ctk p²pk o gi t^apf^olc c j^av^ap c | clf^av lqddtc/dctc=
gi { km o ctn²dc c nku n²p{c ngl²v. c o^aukn²dc gi { pci { n²cr qu
nku A²ki { gtgn²vul qt^olc u pgn²gtgf c hw²upcn0

ô f n²lqp o gi rmg0. ^an²lqp o gi # ô nkd^an c n²crw| /
pcn0 ô f n²lqp o gi. l» go dgt. j c o^at kfg nk²3/4go. eucm pgo
jci { kw00 krgppg dgn ngo. u| gpv A²kuvgp0

ô Uqug nkd^an²lqp. o co c. p{kxc c| cl». u^an²lqp dg0
O ctkp²pkpci { nguxtugup h²mer cu| nqf kn0C i { gtgn²ngv
c n²crw| tcn² hgnw²pc0

ô Lcl j^an²kuvgppgm= pqo²i ^o{ pgo u| crcu| vqw o gi
c| gu ug0R²i c o A²vj²v²gp tgp²kp x»vc| c uqx^ap{ nku uctp{ A²
qu| v^ap t^apmi { A²wc pci { | kxct0

ô O gplgp eucmdgr²gdd. o gplgp0

C n²crw| dgeucr c c| cl»v u ctte o gi kpf w²c xqpcv0
O ctk p²pk r gfk² dgp{ kv c u| cn²u| dc. cj qn v²40 xg xcp o^at
o kpf gp j gn0

ô Fleu²tvgu²m ô n²4u| ³p dg pci { vku| vgu²i i gr0 ô
Kwug x^atcmgpi go 000

ô O k²tv. p²pkA ô n²tfk gi { v²h^au u| ko cvqn» n²crw| /
rgi²p{0

ô J^av eucm c|²t. o gt j^av pgo jcw^am Ætugup c
j gn|go 0

ô Fg|qi {ku. p²pk cnrf kw jgn|. jc o^auww pgo. cnft
c|²p³go dgp ku0

ô | pp{g fg l» ngu|0 Ogt²p o ci co eucm gr^am qm fg g|v
c nku h^av qf c^angvgo. g| pgo d^ampk0 Mqrgt^au0

C| gi²u| p²r²i gm|f pgxgpl0 C u| qo u|²f qm o kpf
pci { i cwf kwo o cnpgxgv kmc p{cme h^acvrgo dgtv0

C r etcu| qm j cpi qucp nœci pem c| wteucdd o guvgt/
h^ar^am h^anu^a llcn o quqn{qi pcn0 Gi {u| gttg rwdikwo o^a ngu| c
v^atuc^ai u Æi { lki {grpgm c|³gi p²plg. o kpvj c u| p^arcf qp
^ai^aipc0 Gi { kf gi gu Ækcuu| qp|. cnk pgo tēpi lc. eucm nft/
v^alc o kcw wcl km k³0 qu| v^an qp. hgmgtgm|f km²u gm gi {
u^ar cf v. n^ap{gu nku n^ap{^axen c n^agvng| u| cncu| dc. Æi j gn| gv
ngtgupl0 P go w^afpk o kv n h^an c m^argt^a»n^ag. xci { c o gi kpf wv
f kumt| wv»r0

O ctkp²pkulgvrvgvr p^agpk i {gtgnk0

ô p^a{ ft^ai cu^ai clo. l»nxkugr²vmo ci cvqncv0

C| v^ap ngqf lc j^av t»n c dcv{w²u o gi rt»d^alc hgn/
u| qt^acpk c o^at vngtcnqw r qreqntc0 J c j gn| x»pc0 Fg plpeu0
C pci { nœcvqur²p{ o gi ug o q| fwn j qi { ugi p^augp. eucm
p²| k^avwuqp nkc u| go g+0C|²tvcnf ugi p^au²i ku0

ô Lcl j^arckvgppgm o^ap j c euwrc^am qm ku j c|^aki ô
o qpf lc c p²pk u ngvrgv u| kmu| ngp c i {gtgnk o gn^a.³4xgpf xg.
j qi { c pci { i qpf qp v^an xcp0 ô Eucn| qi { kw pgo o ctf/
vco 0Vgtgo v o. o krgwxqpc dgn rgo. u| gi²p{^atx^ad»r0

Gi { j k^avrgp pgxgv nkucu| qp{ c u| go g n^a4² nœci 0

ô O ci c^atxc. p²pkA

ô V^ap pgo xci {qm^atxcA Fg dk| qp{ o^at j Æu| gu| vgp/
f glg0 P kpeu pgngo ugo cr^ao. ugo cp{^ao. pkpeu cnk o gi/
rc| upcnqrlqp0

O kpf gpnk pgxgv o ci c ku. c v^al^al^ap u u| go²to gugp
go grku|^alc gr^ac dcm| g o wcv» wll^av. euqtdc hqi^av vcnctxc0

ô Rgugp x»v. p²pkA ô n^atfk gi { xcunqu go dgt. p{kn
x^ap nqeuo^atqul^arg. cnk²tvcl cuu| qp{qmp{gr²p0

ô Qw. c|³4f³4 h^au| gmdg0

ô P go vgu| kno ci^apcm RguvA

ô Vgu| km pgngo. fg c|²tv³4 Æ^am j qi { gi {u| gt nku| c/
dcf wncv dgn rgo ~ j Kivp. o²i j qi { x²pu²i go tg nkrgpexgp/
nkrgpe i ct^af leuqp ngngw hgn^au| pgo. j qi { ngi {gp j qx^a
ngj clvcpk c hglgo²ecn^atc0 O^ap c| v j kwo. gi {gpugp c|
gi gmdg n{wncf qm nk0 C|0 Qn| cp nku hngvg. ug^v v j^a| dc.

o kɔvj c eucmc r qnɔrd»n p{ ɬw xqɔpc0 Uqug ku j ku go 2 p g| wʰ p.
j qi { qf chɔpvxcp c o gp{qtul^a i 0C xcp qwc r qnɔrd

ô J^a v pgo l»no wɔvqWA

ô P go ngm p² ngo o wɔwʰ^a i 0 Gɔrci {qm 2 p o^a t cwɔrd
J cpgo gi { nku l» v² hɔgu r crt kni u euk ng. c| c l dɔrcvqpk
ɔxgi . o gi c eugpf gu o kug dk qp{ l»n gukn0 G| o gi. Ai { n^a v
wo . Rgugp o kpf gpkmo gi j »wo^a t0

ô P go gɔi . j qi { xcp ul ɬpj^a | A Ngj gv o wɔvpk gɔi gv0
O ci c ugj qp ug x»vA

ô F gj qi { ku pgo 0 Gɔrci gɔngm gpi go o kpf gphɔɔ. o² i
c o w| kdc ku0

O kpf gpnk nɔeci pk ng| f. o gtv xɔrc o k l» xleegv x^a t.
O ctkp² pkpgo ku n² ukmxgɔ0

ô Gi { hɔvɔn go dgt c x² dg wi tqw. lcl. Ai { qf cɔnɔr wo
c ul go go j g| . c| vj kwgo . dɔngɔqeeucp0

Xɔrc o k u^a f^a f k^a ni {gtm cnk c nɔeuk ul 3/4 ng² d n l^{3/4} w gn
hki {gpk j cɔm cɔv nɔeci t^a . o kɔvj c eukmcpf q| p^a m u gw n
ng| f xg ul^a l³ v² xɔ nguc p² plɔgmo kpf gp ul cx^a v0

ô Qw ku Ai { pɔxgwgɔm tclvco 0 C| v j kwgo 2 p. dɔng/
qeeucp. r gfi eucmɔr x»v0

o ci c ku pɔxgv. lqddtc/dɔrc kpi cɔc c hɔl² v0 C| wcuqm
l»ngu 2 t| 2 ugn p² | pgm c| 3/4 gi cuu| qp{tc. cnk qn{cp f leu² /
tgvu nk² vgn c o qti » 3/4 gi gm n^{3/4} v 00 C v^a n» rcf qp An gi {
X² p cuu| qp{ . c| qf c ku f App{ 3/4 c ul qo ul 2 f l^a pcn0

ô Dg o gi n^a ul km geegtg. cnk uqug f » i q| qw 2 ngv d g0
C pgo uqmj^a w^a f vekr gɔv j c| c c| gtf d n o l»v c o gi xcp0

ô J^a v c rki gvdg pgo x»vA ô n² t f k gi { go dgt. cnk
^a n² p { 3/4 n^{3/4} v c ul qo ul 2 f d » n u ki { gm| km v² o^a v cf pk j qi {
xɔrc j qi { gn pg j emi cuuqp O ctk p² pl0 C v² d d l gm pci { n² k^a p/
euk^a i i cn hki {gɔpgm t^a 0 C t f gi u² i gɔv ul r km qn{cp gi { v³ tuc/
u^a i i^a ngul pgm o kɔvj c o kpf kuo gtp² m gi { o^a uv i {gtgm² /
i An»x0

ô F gj qi { ku pgo x»vco . qw o gi l^a l wv c hɔlgo 0 Qj
o kpgm ku cpp{k go dgt gi { qtul^a i dc. cnk qw x»v0 L»n l^a twpm
j qi { p^a n² pm pl^a eu cpp{k go dgt0 Mk i { | pg c| qn² cm eucm gi {
h^{3/4} v^{3/4} n^{3/4} v cf pl0 C r gfi c rgi nkugdd gx² u0 O² i j c o kpf qn{cp
x»pe o kɔv c nku x ngi 2 p{ . o gi c eugr r o gp{cuu| qp{0 K^a g/
pgm x»vcm pl0 C| 2 p O ctko dk ki gp pci {qdd. r gfi gi o² i
eucm 3/4 gul vgpf u o An0 Qu| v cu| qpi {c gi { go dgt. cnk qw
nkcd^a n. j qi { c n^a p { 44 gul vgpf u. c h^a A o gi 480 Pq. l»n
o gi p wgm o qpf qn0 Uqm gu l^a tv p^a n² vqn0 | r r gp l» xqpa n
nɔ| cɔrcm»pcn0 C| Kugp ku cppcmvgtgo vgw0

Qn{cp 2fgu v²lf xcn dgu²n jqi { eucm Ài { mweqi xc
pgxgv telvc c| go dgt0 Uclp^a n^a m l²ndgu| cnf|cpk0 EucmÀi {
p{grknc ul cx^a v0

Fg p{f|km c| clw». dgl³p c nercw0 G| x²i²v ul cncul vl
c f²x^apnqf^aupcn0 Ml/nk gmqo qn{qf xc ner nqf c | ugdg w^ap
u nqvt^aul vc gn c lgi {gv. x^allqp o gi xcp/g. o gtv j ku²r Ài {
gnku xgu| j gv. o kpvci qi { o gi o ctcfv0

O^ap p²pk ku nkqf lc c ngpf lg eu²eu²d n c lgi {gv0 \ ³4/
f gv. K0 qu| v^an{À0 X²i ki x^atlc. o f| j q| |^a2t c nqpf wmq²t0
C| o gi eucm t^ap²| c lgi {²tg. o gi n²tfk j qx^a o gi { u qw/
j ci {lc0 C p²pk o gi j ³4mgp0 P go ngnA ©i { n^aw| km pgo .
o gtvgn gi { c nercw0

ô O gi klgf vo ci^a wn qn{cp ft^ai c lgi {g xcp0

ô U| gpv^ax^ap lgi {g gl 0G|²tvipi go xku| c ku ngmxlppk0

ô O knqt l³4vhnA

ô O^a o c ul qo dc\0U| gtgf^ap0

ô | p²rrgp o c gi { j gvg ô hqtf wn j q| |^a dk cm cup
gi { qn{cp d²tgucul qp{0

ô ~ j. Kivp o gpw. j qi { ²p gi { gi²ul j gvgv kw rgwgo
x»pc0 O^ap kpn²dd xci {qm c vgo gv dg eu ul p² 0 0 0 Cppcm
ngi cn²dd d²nguu²i dgp rgj gv cnw²pk0 Fg ²p kw uqj c rg pgo
j wp{co c ul go go ²lf n^wpk0 Eucm ngi cn²dd c| qnpcm c
xkncp{qunqeu|qncm rctcpeuq^a o gi c nkt^an|. j qi { pcr/
ul^a n^wp pg ul cncf i^a rlcpcmc| we^ap. o kpvci dqmpf qm000

C nercw| xku| cl³40

ô J^a vo co c. h²gv³4 nqtqpc : 2 hkn²tv0

ô G pgo l»A ô n²tfk n³4{³4i . klgf v r kncp³v ucn
c p²pk0

ô P go 0 C| ngl^atv0 C| gvg o²i j c| co gj gvgw x»pc.
o c pgo 0

ô P q. F gl u # G| ²tvf xcp# Ft^ai c i {gtgm xci { vg0
T^af ngnw^xa tpk0

C n³4 ³4pu²i nguk c p²pk0 O kpf j geegv x^at0 J qi { pgo
hqi h²gpk0Rgf ki o wul^a10

P²| kmc nku Àhk. cnk ngj À| c c p{cn^av²u Ài { ãn o kpv cnk
xcnco kpci { tqul cvvgw0

C p²pk ku ngj clvc c hgl²v u uqtdc hrggo grk c ul qnp{^al^av
c ngi cn»pcm c | ugd²d n nkxgu| k c dwi {gn²tku0 Cnk ul go dg
Ãnxgrg. Ài { n^avlc. u²l» x³4³4u ngwc ul go g0

C| v^ap o gi t^aplc c x^am²v0

ô C|²t pgo vgu| m^af wu^a ô o qpf lc u nkxgu| gi {
xcfqpcvÀ j Àu| nqtq^au0

ô C hġ gv cnġpġmxcp ô gt uġkġ nġrcwġ ku ġpi gtngf xġ0
 ô J^a v jc plpeu. cmqt pgo ngm hġ ġvġkA ô nġtfk
 v²l^ftc nġul ġp O ctkp²pk0
 ô P go OCmqt ul cdef i {cmġi qġpkc xqpcv w³p0
 ô O^a p cmqt ġpnġ dd eucmxcp0
 C nġrcwġ ġm ġi {0
 ô P q F ġ| u . ġ ngngwpgngo 0
 ô C hġcA
 ô Qj . Kġvgp o ġpw0 Uuġ vgt ġppġm c| crlc0 C hġnwġndġn
 j^a|cuqf qw0 Qw nġnkġm c pci {crlc p^a nġpn0 Qf exġul ġo c|
^atx^a w0gtvc| crlc. o ġi c| cp{lc. Āi {xcppcm000MĀġġp 000
 Nġi {ġpv c nġ|²xġn c dġeuĀġvgu ³/₄ġi cuġ qp{. cnġ pġo
 ġi ġp wf lc o ġi²tvġpk j ġi { nġj ġv. j ġi { c| ġo dgt o ġi c|
 cuġ qp{c pġo d^fl^am nk ġi {Āw0 F ġ o²i tġvgġnk ku ġi { nġeuk.
 j ġi { o ci c ku dġrġngxgtġf ġwc f qri wġlc0
 ô U ġi²p{ cuġ qp{ i {^atdc l^at ô o ci {ct^a||c0 ô ~ j0
 ©i { euk^anc ³/₄uġ ġ c nġu j qm kv c i {gtġnpgn0 O^a o ġpf ġi {.
 ġrġkġ ġo c| ³/₄ġi crl^a2nġ ġl OC| c r^at hġtkpvug ġf ġ. ug qf c 000
 l³/_p c nġrcwġ. j ġl| c c ġi {ġv0 C p²pk^a wġul k c| v ku. c
 xkuġ cl^at> r²p| vku0
 ô F ġ j cmlc/ġA P ġngo o quv o^at mĀġġp mwr²v cf ġq0
 O ġt²p f w rġp hġ ġwġo. o ġi²tf ġo ġo 0 N^a uuc/ġ o ġul ġp wtcu
 ġi {ġo xcp0
 O ġi ġpv pġxġvġm c| ġo dgtġm w^fġ^am ku. nk ġl| ġn nk
 c| |cn j ġi { ġi c| c xcp0
 ô MĀġġp mwr²v. cp{^ao cuġ qp{A Cf qm²p. f ġ o ci co ku
 dġppo ctf qn0
 ô C ngmpġngo² r r ġp0Nġi crġ dd pġo² p ġġf ġmo ġi
 ô J^a vnkA
 ô O ci c0
 C l²thġcm i qġquġ wn nġeci pcn0 C pci { nġeuo^a tġugo dgt
 c| ³/₄m²xġn xġtk c v²tf²v u c ġl²v t^a||c. o ġpv o ġnqt qn{cv
 j cmc| ġo dgt. co ġp ġnġmc| ġul ġ0O ġi ku ul >nġi0
 ô Ĥġp ġuġ qp{ o ci c. p²p²o 0O ci c c| ³/₄f³/₄ v nug l²r0
 ô Ĥpnġ dd l²rlġp c|² p vĀġo 0
 C nġrcwġ ul ġi qtĀcġeqv³/₄n0
 ô X^atlġp eucm o ġpf l^atv o ġi ġġf o ci c² p v ġo ku0
 Mko qpf v o ci^a pcm j ġi { o²i o c ku l> c ġi {AC tqnġp{qmĀ
 ô ~ j pġo OF ġi ġi {0
 ô J^a vnkAC nġrcwġ A
 ô P go OCuġg0
 ô J^a vnkġuġf cA

ô Cnko kpf gpvwwf0C dcmgt0
 C p²r lqddtc/dctc f nc p²gxv²uv r0
 ô C| c o ci c n^ap{cAô xcmvqx^add c n^arw| 0
 ô C n^ap{qo²0
 ô P k²peu/g o²i j^atqo²xguA
 ô J qi { i qpfqn qn{cv ô u|»n ki c|^ap o gi u| grr gpxg
 c p²pk000
 C n^arw| pcm²r r gp grⁱ gpp{0 O gi xcp grⁱ gf xg c
 j gn{tg^am²q²w gnk²v²m{gn u gij ku k u| gpv²ñ c| cuu| qp{ u| cx^av
 c| v²p vx^addu²v²r0
 ô Vg nku ewfct ô rcunqrlc o gi c pci { r w²m n²p{
 j^av²vc p²pk0
 ô O clf pgo v²g ku dclv j q| v²n t^ao . o kpv c F g| u 0 O^ap
 v²g²tv²gf r g²ki pgo H²gp²n0 Vg pgo xci { kf gi gp0 O k²gm
 p{ u| q²{ . o kpv c t²r c0 N^ao . c| c eugrr o gp{cuu| qp{ c
 X^atqurki gvdgp o²i o quvku dk²qucp kpi { gp w²| kn0
 ô J qx^a xcn» o ci c. p²pkAô n²tf kc u| qo u²f lc0
 ô D²rcvqu| gf gtx^attc0Vw²lc c| À. j qnxcpA
 ô Vw²qo 0C D²rcvqo o gm²w0
 ô ~ j d² c pgo ki gp0 | p w²{cp c| v j ku go . j qi {
 R^at²ku o gm²w0Cp{kvngmH²gp²0
 ô O qpf lc. o ci wnp^ano kpf gpnk²gmkn{gp l» ngf xg xcpA
 ô O²i lqdd ku0 Xcp. cnk v²peqn ku l»ngf x²dgp. nk^anv c
 h²cvrlc0
 Ngj gvg| veugpf gu o quqnⁱ a u p²m²ñj cm²pkA
 ô O ci wnp^an ku pci { c ft^ai cu^ai A ô n²tf k gi { u| kn²t
 r gukcuu| qp{0
 ô Dk²qp{ .^atc xcp o kpf gppgm j^an) K²vppgn0
 ô J qi { c vq²uA
 ô O quv l»n xgu| kn0 C p{ctcn» wtem o gi H²gvkn0 J^atqo
 gi { j cvqu0 J c qu| v²p gm gppgm cf wpm^{3/4} w gi { j cvqu²tv
 o gi j cvqv. o gi v²k gpj^ato cv0
 ô Gi { j cvqu²tvAô n²tf kgi { v²pucuu| qp{0
 ô J^av0
 ô C| o^at pgo ki c| 0 Qn{cv o²i pgo j cm²wco 0 V²k gp/
 j^atqo vq²uvgi { j cvqu²tv0
 ô Cm²qt l» rgu| . j c gp²| o h²gr²pn0 Ngi cr² dd euw^av r²v
 gi { u| gt0
 C n²q²euk v²ñ» h²gr²p c o^aukm x²pcuu| qp{ pgo^a nj cvlc
 vx^add. h²gr²r^a u| n²q²kmc j gn²t nu gr²ddtg I³p0
 ô ~ j dg uqm j k²dcxc»u^ai qv w². j cm²lc/g0 N^au| km
 j qi { pgo uq²ncvf»i q| qw²rg²dg0

O ctkp²pkt^ap² | c d²n²wgpn^gf tg0
 ô | p ug n²r vgo n²v²gt gi { p{qo dc ô o qpf^lc eugp/
 f gup0
 ô P go wf qo . j^ap{ j^ak h²v xkw j c | c xk²i²ng²dg.
 c | gtf t nA
 ô J qx^a xcn» o ci cA
 ô Dcn²p{ v tg0
 ô -i { . ô u | »n eu² ug² O ctk p²pk ô j^av cm²ut o ci wn
 j qtf²v mgnc o kl²pn²vAN²uuc. c | ²tvx²p²Ávo gi 0
 C n²4 x²rgo²p{ o gi k²v c O ctk p²pk t²u | ²p xcp. fg c | ²tv
 o gtv o ci c ku ng | f kwppkc pci { u | gtr n²u0
 ô P go wf c | Át Áu²i qv q²rcupk v rgo ô u | »n c
 u | go dgp²Án j³4. cnk gi { pci { Áu²i dcp n²r q | . fg o k²pf ki
 eucmt^a h²i { g²0
 ô Vwf qm²p0
 ô Lcl. gn ku x²u | cddc c pci { wf qo^ap{dc0 Qu | ²v p
 o gpp{ k²tv²cf²v mc | vA
 ô .. vntcle^at²t0
 O ctkp²pko gi eu»x^adc c h²g²v0
 ô C o^ap pci { qp »eu»# J cto cf h²n i ctcu²t o²i²p ug
 j c | wf p²m cpp{ k0 Rgf ki j k²dc pgxgv u | k²gugddgp j cni cv
 pcm gpi go . o k²v c r cr qv o gtv²p geegt ug o qpf qo . j qi { <
 pg X²ng | | gvm o gtv c r qn²ut c m²Áf grgmcnc dgp²#
 G | gn c i { gto gng²j g | h²tf wn cnk²m o gi²j g | vgm u c p { c/
 n²p p { i³4n²4 pgm j qi { cf lqp o^at gppk²ngn0

XKV \ DQF QT CNCF f T

3: : 2ô

C\ QMC T\ I KL MKUDWFCKMQEUO f M

Cnet/g. Oqpulgw. xcro k v tÃno gu| gw pgo | gk lgn/ rgi | gvgu²i u| kw{cwt^apk ²ngl gvgvA Xcro k o gi glv d d^alÃ hpo o gi²r²uv c hqmqtku| vkwu mÃr²prgi guu²i gm u| wdvr²uck n²Ã Ãn o gn{tg ²f gu grpfcrtf^auucn go r²ng| j guu²m xku| cA Cmmqt j ci {lwm kw g| v c o^atx^app{cn dtqp| | cn ²u vÃn²Ã/ Ãxgi i gn dqt²q²w. nkuo ki r² gw Rgugv ²u i {gtÃpm^av c| kf kr/ rknwu. grpfcrtf^a Dwf^atc. c| uk Vcd^appcm gi { grf wi qw nku/ nqeuo^al^adc (00) .. p euqf^amq| km Oqpulgw. j qi { c u| go go n²pp{dgdqtwpk r²dc c| gr²t|²ngp{ ²f guv nA Cj. c h²p{gu o Ãncp o gtgpi o ci {ct xci {qm²u g n²pp{gngv pgo u^ao q² vqo h²Ãn² ppgmc rgen²m^at^ap h²Ãn²o

Vcd^ap uw^apk nkux^atqu. co gn{gv c t^aeqm²u ux^adqm ²r²q²gwgno M²Ãgk n h²p{gu. dÃu| ng v²Ã²pggo p²| ng t^apm r gvk nqteuqntc= n²Ãgk r gfk t qo v²i r²d»n xcpcem o gn{g/ ngv x^an{qi i cn tci cu| vqwm ³u| g p²j^ap{ ²xv²gf f gn g| gn w | wi r²n²uqm e²rlctc= g| gngv c hcrnev o^at l²t²u| v u| go ²tg hwactq|²m c ngi {grvkr t» r gvk gm fg kw dqtqpi o²i xci { j Ãu| nkunqeuo c. cj qn o²i wqr^atc ngj gv hclo ci {ct ²vgrngv ²u kcrnev. ki c| k nqeuo^atquv. hcl o ci {ct |gp²v²u ki tle/ n²Ãn² u| gvgvcr²rk0

C U| ctxcu/v²tt n kpf wvpm nk0 Eucnj co ct gm ctef pcm c j kcmqf » mwn²tc xkrcp{r²o r^ak²u c j³Ãi {gm j cm uknq²q/ nev j cmvpcm o kgn o gi hqi l^am ngv eu>nqrp²= cnk j cm cv c| ²rr gp eu>nq²udcp xcp0 C r²d tgp²u| gtpv r wj^atc r²r. o gn{ j c o q| qi < ²n rcm²p{ hqtqi h²pp= j c o^at pgo o q| qi. cmqt f³Ã r²vr cm²p{ xcp qw. o^at h²Ãhqt²wk0

C nqeuo c. o gn{pgm clvl^ap dgr²r Ãpm ô hglgv o²n{gp

vgu²m o gi j clcpc k u l kxw r f ô wælf qpn²r r gp c I tqul
L^a pqu². fg . j qi { uk hcl vku vci^a xcn grxct^a | uqrlqp. Rkpvgt/
j wdgt V>dl^a u p g x g v x k u g r k uk ux^a dnqeuo^a tquk ucr nⁱ v x k u g n
o gn { gv c F q j^a p { / we^a dcp n e r p k c l² tv v t v l c c h g l² p. j qi {
g | gn ku o qt > | wu i qtqo dci^a i qv² t g | v g u g p. o g t v c t² i k l > nku
d w f c k n q e u o^a d c p p g n k i q t q o d^a p c m n g m r g p p k g O C i q t q o d c /
u^a i q v g i {² d g u l n³ 4³ / m g n k u u k n g t ã n² t g | v g y p k g O

C nqeuo cvgtgo o^a t u v f n u q u c p n k n f u l f x g x^a t l c c t q o /
n q w r g u k o² n > u^a i q u v t c n e v O C u l q d^a v f² n > v c nⁱ v p e r u l^a o d c
h³ / h q i c f q w u l c m o w p nⁱ u v g r k n³ 4³ n³ 4³ v g. j qi { g | gn o gi c f l c
p g n k c l v c t² i k l > nku d w f c k n q e u o c k l g m g i g v. o² n > | v c u u c p c m
c t w j^a n e v n k u² h³ / h q i p k O C u l q d c u t n e n d e p u v f n u q u c p n k n f r /
| g w r > n j^a n m x e p p e m n i t c i c u l x c. c u l² n d g r g f k i o c i c c
i q p f q u i c | f c x g t v g d g r g c l v c d k q p { q u u l³ 4³ g v. c o g n { p g m
j k c v³ u c. ô n^o o^a t k u u k n g t ã n # ô j qi { c l³ 4³ p p c f t^a i l^a v
n k u l c n f u c O * C j³ 4³ i { g m p g x g v j g v p g n O C n q e u o^a t q u ã t o^a t
t² i g n x e p o c i { c t q u q f x c. f² n w³ p q p n³ p v p c i { l f t c f u^a i i c n
v e p w i c v l c d g c | u / u x^a d n k u l > nⁱ u q n e v² u o c i { c t v c r e p u^a i q n e v.
o g n { g n g v c p e k x r g u l g m v n g g r x^a t p e n O C h e r n u p n > u l c t q x c /
t q m o² nⁱ | p e m c o g n { g m o^a t q n { u l g n f f g m j qi { g n u g u l g v p g m c
X k i i q u i^a g n n e c o g n { g m o^a t g i {^a n e nⁱ p p g o u l g v p g m c l q m
o^a t n³ 4³ o o g n c h e j q l x e p p e m p { q o x c. x² i n f r O G n g p d g p.
c o k q n { n q t c e k r v e r c r e w j e m e p r w m e p < c | u x^a d d q i^a t.
o g n { c j g n { p g m u l g p v g r v^a n e v c. o k p v \ g ã u l p g m c u c u. x c i {
C h t q f k² p g m c i c r o d O

C j p p p c p c n u l o^a n u l c i² t | k m c l c n u p { j c O R g u v p p g o
o g t p g m c x g p f² i n m q f c² i g v p k n u l o^a r p k n k h w e v p k f g c
d w f c k n q e u o^a m nⁱ p { v g r g p g m o g i v g p p k c j^a | k e u l g m g i x² i g w O
C | g v p q i t^a h e c k t ã n n³ 4³ n g f x g u g d d l g k n³ 4³ ã n x c n. o k n q t c
o g i x^a i q w p { c m ã e u k n g c x g p f² i c u l v e r q m n³ 4³ v x g t i f k m
o c i c u t e w i t^a n x c e u k n g x^a i^a u] u k u l g t v e t³ u c u l g t k p O

C d q t o c i^a p e m g p p g m c v e r l p e m^a r f q w v g t o² n g.
n k x^a n > c p e m e m c u t q l u f c h q n q m n g o e t c v³ u^a t c. u v l² t g i /
k v³ u t c k u. ^a t c o² i u g u q m e n o c i c u c d d. o k p v c r g u k d q t q nⁱ.
n g i h³ / h g d d c p k o d w u l v n g m k w n k u² r > v f^a | p k O C v³ 4³ v /
nⁱ r q u l v c. i w n^a u. v ã > u e u w u l c u d O k u c r k i nⁱ v u l g t g u^a t w =
c |^a t e m m ã n³ 4³ p d g p k v g i² u l g p o g nⁱ n g u g m c l² t v c l > n k u d w f c k
n q e u o^a n p e m o² i k u e u c m t g p f n f x ã n q r e u > j f ã n x e p O L > j f ã n
x e p c v k u l v c i^a v g n k p v g² d g p k u = c l q p d e p c o ã n² x v l g f g m
g i { k nⁱ d g p. o k n q t c l v³ 4³ v p v. j qi { g i { d w f c k n q e u o^a t q u c l
À l h q i^a u j q l À l g x g u l n³ 4³ n g v c f c v q w h³ 4³ c x g p f² i g m g l
g t n³ 4³ e u k | ã nⁱ u g o k e w d q l n q w³ n³ n O C | > v c x k i {^a | v p m j qi {

2vng|2u gn w c xknf nev c| cu|vcmgpf dg u|wtmf n' ucn vcn/
 t'wun0 Rcr ktqu cu|vcmgpf . o kpv gtn'4euk tqo n' u lgrg. u|kp/
 v'p u| a o | xg0

C uctqnd»n o quv ô j cmi c eum j cmi c ô | gpg u'f l'4n
 c p2r rgn'7pgm uk o 2n(u'2 i gld n c| uk hclku' i euqf a u o gn/
 f k'k co kpvgi {nqt c o gqku| klpi qx a p{qndcp 2pgngij gw2 n<

Cj c U grrk i kd o ckc nku/ ej gp 000

C| kite m'4p »t a nup k|cfxc vpwlc dg c| uk p{gn/
 l a t a u0 C n'f'2t j cpi u|gtgm d a to kn| j cpi qucm ku. o 2 i ugo
 wfl a m ghrgrl vgpkc u| 3/4gi gv0C u| 3/4gi gv. j c Rguvgp j cpi | cp2 m
 fgustwm'x f kul p»t i pcm d 2 n'gi g| p m fg kw c tqo n'wcp
 Af gu2 i j cto c v' v2 tgl | Amtelc vApf 3/4n'4pk0

C vAn» cu|vcp a n l'4n2 vgpAn f'»m 2 u n'f'2 tgvAm xceuqta | /
 pcn0 C| f'»m t2 u l'pv ucl a v l'2 it gluo gtv vj gw2 i Angv tgi cdkt/
 v' n a m t2 u l'pv gi {gdngv j c| w'f pcm fg c n'f'2 tgv u| a o a tc
 xcppcm o kpf gp u| wdvk'v u»n o gpv cf qo a km ku0 G| gngv c
 n'f'2 tgvAm c j 3/4i {gm d a xc vnkpv wgn pgo 2 tvkm o gi. c l'2 t/
 hcm r gf ki ô *cnkm c u| a o n' v h'k gypk hqi l a m- ô i gi n' tgo .
 j kul gn2 i tg Dw a p xci {wpm'f u| 3/4gi n'4pp{gf u'2 i i gn gpi gf km
 p kpgmj cmi cvp0

C v' xq| a utc c| cf lgrn j qi { c tgpf t o a t ng|fk xku| c/
 wcu'fcpk c u| kn»tkwo qu mwr le a nev0 Kk(gpmqt c xgpf 2 i gm
 a vo gppgm eddc c n'ueo a dc. co gn'pgm mwr le a kv c tgpf t
 vx a dd d'f'lc u|gtgvpk0 C nkl a tev n'4An u| 2 v gddgp r cun' p{qm
 2 u v' tucu a i dgrk x2 rgo 2 p{gn2 t2 ugm xcppcn0 V' / V' n' r 2 up{ktg
 i a | n' o r c/qu| nqr qm a mcpem o gn'gm c| qpdc pgo xkn' i f'v' etc.
 j cpgo n'4 rgnf 2 utg u| qn' a rpn0 C n'4 rgnf 2 uv Ai { dqp{q/
 n'f' a m rg. j qi { n' o r a v »n' n' o r a ki f'An'4pi c| go dgt. pgnk/
 e2 n'q| xc o ci a v c rgi n'4 grgddlpgn0 C uctnup c| go dgt dg dgrg/
 ncr cu| nqf km V»pk d a euk0 P g l'2 nug. O qpukgw c| 3/4gni gv2 ugkv n
 c| ctep{»t a l a v c| v o a t c u| ctxcuv' tk n'gu a m»p a n dk' vqu' i dc
 j gn'g| v' pv ngi { j co rnkcteÀ l'2 thk'0 F g c| r gukxqn0

EUCVJ ~ Mf NO f P

3: : 3/

K C \ Uf I U QNI f NVCVf U

Hqi n^au^au w^ap dgo gpv[~]Apm c| ^am^o^auk m^ueuo^adc
 ur tleegtgl pK0 J cwp xqmwpm euwrc t²i k xcf^au|eko dqt^am
 eucm Dwtmwu xqnv \hat{A} go dgt n^{3/4}v[~]Apm cnk pgo t²i ngt[~]Av c n^{3/4}/
 p{²ntg ²u cnkv O ctek j q| qw n^{3/4}²pm c| qp c e[~]p gp. j qi {
 u| qo u| ²flc. c j cte^v tgp r g f ki vku^w tuc xqn0 Mlpp Av[~]Apm
 c| w^xctqp. l>n gugw c u| »f^au dqt u gi {kn xk^ao j ku>tk
 c o^auknev ngti gwg. co kpv c| o^at kn{ gpnqt u| qnⁱu0 Dcpf k
 d^aeuk gm qpf vc j cxcpj gvgf u| gt c n^fa p{ k n^rn^t gug^vv
 co kp Dwtmwu t^{3/4} ^{3/4} ^{3/4}v c nⁱ pci {qddcv. o gtv o²i pgo ku/
 o gtv. fg p{qo dep t^a o²i ku c| v nkd^anc vtqo dkcj cpi qp.
²rr gp co knqt ²p ngl f vgo dgrg xcrc0 kcpgnf q^v dc<

ô G| o kpf ugo o k c| ²p v^{3/4}v²pgvo j g| n^rrgu# G| v
 j cmi cu^a vqm o gi. o gtv kn{ gv o²i pgo rk^ancvqn# Rgf ki
 g| u| p^vku| vc ki c| uⁱ c| wqn» u| »ki #

Gij cmi cwco rgtu| g. Dwtmwu r g f ki hqn{ vcw<

ô Vxcn{ kn{ gpnqt v^{3/4}v²pv. j qi { hqi n{ cu| pk kpf wmwpm
 c u>i qtqo o cr0 O^at hgpp mveqtqi wpm c dtleumⁱp. o knqt hwxc
 l^{3/4}p c i²r²u| kpcu. j qi { c| v o qpf lc. pgo kpf wn c vcmqt.
 xcrc0 k ut>h gn^{3/4}^{3/4}v dgppg0 C u>i qt nⁱtqo nqf xc rgu^anv c
 dtleumⁱt>n²u nklgrgpvgw. j qi { pgnkqwj qp ngmo ctcf pk0

ô O^ktvA ô n^rtf g| vgo 0 ô J ku| vg \hat{A} {ug wf qf o gi /
 euk^apk0 C i²r²u| r g f ki tgu| gn dgrg o^aukm ut>hqv p^arf p²n
 m[~]Anku#

ô O²i ku. ô c| vo qpf lc ô c i c| f c u| go g#00.

ô Pcj^a# I c| f c u| go g tgu| grk c ut>hqv# ô Fg pgo
 xkcvnq| vo xrgg. j c qwj qp cn^{et} o ctcf pk o ctcf lqp0
 P kpeu wpcm cucdd c| qn{ cp xcf^au|eko dqt^ap^an cnk crki x^atlc.

j qi { qwj qp ngi {gp 2u cffki ku hqn{vqp c vcmqtqp l^at
c| gul g0

ô J^av cmmqt ul gtxwul . u>i qt# ô o qpfvco 2u t^aul »n/
vco c mjeuktc. j qi { jclwqp dg c hcnxc c l^at^aud¶»u^aitc0
I qpfqnc0 . gj ¶kqo Rkuc d^aeukv dkl qp{qucp xgrgo vctv.
j ceum v^ati {cñuc plpeu0 Ogtv pci { l^ai gt c| ¾gi . c|²tv
pgo ku cxcpl^an0 Pgo cnetvc qwj ci {pk c l> xcf^aul vt^argvgv
c xkl^ai²tvugo 0

Dcpfkd^aeukn¾ dgu »n<

ô U| cd» Rkuv^at>ndgul²n| AC vgtlgkl^at^aud¶»t>nA

ô Ctt>n ctt>n# ô d>tkpvqwdwtmw0 ô Kuo gtgfA
Dcpfkd^aeukhwtu^ap o quqn| i qw²u c| vhgng<

ô Gi { nleuk0 Fg eucmhqn| vuf #

Dwtmw qfcmjeekpvqwc r qj ct^avc Dcpfkd^aeuk²j q| <

ô Kvgp²nguugp#

ô U| gtxwul # ô hgrng t^a Dcpfk d^aeuk0 Dwtmw nkkvc
c dqt^av. fg n¾ dgp i {cpcnqf xc p²| vg c| ¾gi gv<

ô Cmmqt vcn^ap gn ugo o qpfqo gl v c v¾v²pgvgv ô
ul »nqwô j^ay c o^at wf l^aqn0

Dcpfkd^aeukc hgl²vt^a| v<

ô Pgo wfqm t>rc ugo o kl²ng v¾v²pgvgv0 Eucm c| v
wfqo . j qi { pci {qp i {gpi g d¶»0

Dwtmw h¾go gng c j cpi l^av<

ô Mk o qpf lc c| vAP kpeu lqdd d¶» p^arc c| gi²ul qtu^ai/
dcp# J cmi cuu eucm kfg . o kpl^atv o gi wf jcxqf# 0 0 0 J^av
o qpfqo . dgo gpygo Rkuc d^aeuk²tv c l^at^aud¶»u^aitc0 Qw ku
rnkn c| ¾gi . c| c| cppcm c hcnw n¾ gr²p^am» i {¾p{¾ .
ngtvgu m^ak^apem cj qn rnkn n^av ul qd^alc hgpp xcp vctvc
j kxcvpcn0

ô O^at o knqt dgfrvgo c nerwp. tqul cv ng| fvg0 ugl/
vypk ogtv c vqtp^ae o gi c| wf xct vng xqrv rgtgu hgrngmgn0
Xci { v^agp¾ cuul qp{²u wi {cpcpp{k l²tlk^aeuqti qw²u Æf¾
i²nv qw ul cpcul²lgr0 Gi {/ngw gi {gf Æn c v¾ddk nkugdd/
pci {qdd euqrqtvqndcp ¾ul gd^axc²u uvuqt²nqncm fwtw/
| uqncmgi {o^aucngt ugp0

ô Pc. ô i qpfqnc0 ô j^kdc l¾vgo # Gl gnmgn wi {cp
gn pgo n^aul Æn Rkuc d^aeuk f²rkⁱ ugo 0 Fg j c o^at kw xci {qm
o qpfqm pgnk gi { i cflqp Kvgp^a Dgp{ksqwco c j kxcvrcu
ul qd^adc. fg qweucmc lgi { | n¾o ¾vgi {gf Æn<

ô C d¶» vctv vgw| km ngtgupkA O²i pgo l¾v^av0 C| v
j kul go . tgi i grk kn0

J qi { c vqtp^aetc nk^arvgo . o^at gi { Æw^amcm c x^atcnq/
c

| »m o kpf c | wf xct n³4 gr² p² u Uko c Gu| vgt. c | ³4gi vq^l uqu/
n^hlc. wⁱ {cpeucmr ewqi qwD u| g I {wtkhgr<

ô C| vo qpf v. j qi { j c | wf qm A O gi j qi { eucm» xci { qm A
J^a v l># G^l2tv ku hgrgpk hqi # Hgrgpk hqi. kw c vgnkpv^gvu
d^q» Àt gn w# G^l2tv ku. o gi c v³4ddk²tv ku# O kpf gp²tv# | u
o²i j qi { c | cr^a o cv u| kf lc. o gi c | kf gucp^{{a} o cv# O kv x²vg/
vgmc| qmo ci^a pemAI {cñ | cvqu#

ô Hqi lc dg c ngr euguv. o gtv Ài { u^a lqp x^a i qo 0 0 0 ô
j cpi | qw c x^a rcul. ²p c | qpdc p grku| nqnc o. pgj qi { o²i gpi go
ku qw hqi lpc m vcp^Àpc m² u² p ug o gj guugm gn hqi n^{{a} u| pk0
Dgp{ kqwc o c | gd²fn dg<

ô U| gtxwul. Rkuc d^a euk# ô n³4u| ³p³4ngo 0 ô C^l2tv
l³4ngo. j qi { xcf^a u| pk j ^qklcr m fg Ài { n³4vo. pgo ²tu| t^a 0
Uclp^a mo #

ô O kv uclp^a n| A ô o qtf wv t^a o 0 ô Gm gi { gm² p xgrgf 0
T^a2tgn0 Kc|. j qi { c ngtvdgp ngw xqpc gi { nku fqi qo c
t>| u^a m²en fg c | o ctf j cvf² n^w ptc ku 000

ô J^a v plpeu v³ti {cñ uqf A ô n³4tf g| vgo 0 ô O gtv c |
wf xct vgrg xcp go dgtgmgn co kpv n³4vo 0 | u j c j co ctqup
pgo vgu| gnki c | u^a i qv n³4 v^Àm gi { o^a u| cl^a dc o gppgn#

Rkuc d^a euk c hgi { xgt^a m^x a p^{{a} j q| n³4rgw ²u c r extqp/
| u^a m^a dcp ng| f gwnqqt^a u| pk<

ô O gi^a ml eucm pgo wf qo. xcp/g grⁱ r extppqo A
Euk^a nco wⁱ {cp c | gung. fg c | qm plpeupgm o²i dgeucxtxc0
I {wtk# I {wtnc# ô nk^a nqw nk c | cnku| vgn0 ô Qw xcp
gi { euqo » r extqp c j^a n³4u| qd^a o dcp c | cdnrfn gu| n³4p0 O gplgp
j co ct ²u eucxtlc dg ngv0 Gi {/ngw # 0 0 0 J^a v gi { m^w lec
v³4n³4n³4 vku| qn/gAô hqtf wv j q| |^a o 0ô K³v³gp² nguugp#

C| cnku| v qw^a m^v c | cl^w dcp o²i o kpf ki 0 O quv o gi /
u| »rcn<

Pci {u^a i qu wco. nkrpe »tc gm Àn0 Cmqt^a tc vgu| gw
dgl² | pk c hgrngv c Uko c ô D u| g/Ài {dgp 0 0 0 Vgu| km wf pk
c | c dgeu^Àrgw² tv² ukr gt. co klgp j wul qpn³ vcp^Àv lgrgpvgwmdg0

Gij ngo 0 J wul qpn³ v vcp^À# J ku| gp f² n^w pki gntv.
co ^q nk ngj gv dgn n^Àm j^a o q| pk j qi { o kv wf pcn0 Rkuc d^a euk
c | qpdc p eucmcp{ k/hgrgn<

ô O²i ku kv^a mA O knqt r gf ki o^a t o qpf vco. j qi { euc/
xtlc dg c | qn³vc r extppqnc# O gplgp eucn#

M³4dgp gn u| gf v^g c r wun³ l^a v. dgrgp² | gw. ³4u| gtcmc.
c | v³ p c | vo qpf v<

ô J cpgo cmqt ²p^a v³4n³4 n³4f³0 # X^a tl gi { r kncpcki .
l³4³4m³4v³ p^w # 000

ô Fgi^avjc v̂ti {cñ uqf xcp 000 ô ul »nco 0 ô Cmq̂t
kpn̂dd gi {gf Ñ̂n o gi {gm 0 0 0 Pgn̂go xku|c ngm l̂pp̂go
gd²ftg00

Ugo ok c| c v̂ti {cñ u# O kpf l^atv o gi ñ vqf# Eucm x^atl
kwp{wi qf vcp0

Giv pv c o^aukm ul qd^adcp. 2p rgfki dqu| Æucp c| v i qp/
fqnĉo. jqi { c| 3/4gi. co kn̂gp kki { r wun̂u. o quv gn̂3/4ngk
kw xrggo c f²ngn ŵ3/4 jqi { 2p ug xcf^aul jcuucm jc pgo
2t t⁰Fg. i qpf qnĉo. tclvco pgo hqi nk co kpv gm̂g|f v̂t/
i {cpk o gi ul 3/4ñ̂go 2u kvj ci {qo 0

Fg o²i t^a ugo 2tvĝo. jqi { gl v x²i ki i qpf qnĉo. o^at qw
a mv gn vgo xcf^aul tvj^adcp0 C r wun̂l^av. c rctqpl^av c|
cnku| vj q| vc ŵ^apc 2u xkwg n̂hgr̂ c n̂eukt c0

ô O quv rgfki jco ct ul qn̂^ancuwpm gl gmpgm ki c| u^ai qw#
ô ul »nqw0ô I {gtg#

O gi kpf wv c vqt^aeqp c j kxcvnĉu j gn̂ k²i hgr̂0 C rctcu| /
vqm co kpv o gi ñ ŵ^am o kpf gr̂j cni cwĉm 2u ng| f vgm hgn̂»/
f wpkc vqt^aetc0 Rkuc d^aeukqf cul »nvpgn̂k

ô l̂3/4l̂gpgm eucm l̂3/4l̂gpgn# Dghgr̂ xcn̂o gpp{kgp#
Gpi go ñ̂3/4ngv̂w gi { ul²ntg c| cd̂cm o gn̂. o ci c ñ̂3/4v̂
c| cul v̂rj q| 2u o gi x^atv. co ñ̂ c| wqn̂» go dgt ku dgr̂ r
c ul qd^adc0 Gm̂qt hgr̂ n̂qw²u Æppgr²n̂ gu j cpi qp gm̂g| f v̂g<

ô M̂3/4gŵg| km Uko c Gul vgt 2u D ul g I {3/4i { dgeu Ængv/
u²t²uk 2u t^ai cm̂ c|^auk Æ̂i {g0 C v̂ti {cñ uv gl gppgn o gi p{k/
vqo 0 J qn̂ xcp̂cm c rcp̂cu| quqm kn̂v̂xg c x^af n̂qwĉm Æ²r l̂g/
pgm̂3/4 gr̂dd#

ô Uko c Gul vgt 2u D ul g I {3/4i { n̂leukv d̂k qp{v̂cp̂wn
n̂3/4 gr̂dd r̂r vgn̂0 O gi xqnĉm kn̂v f xg o kpf c ngv̂gp. o kpv̂ c
pgo ku wi {cp̂c| qm ngv̂gm xq̂pc. cn̂km gi { pgi {gf »t^axcn̂ gn̂ dd
o²i qn̂cp̂ j cpi qucp̂ r qf̂ | vcm gi {o^auuĉn c| wf xctq̂p0 Rkuc
d^aeukĥn̂ v̂w<

ô Oci ŵm c|²tv l̂3/4v̂gm kf g. jqi { c dgeu Ængv Ængv ngt gu²m
co kp. Æ̂i { 2t| km euqt̂dc gugw0 K̂c| /g xci { pgo = Uko c Gul vgt Æ
Hgr̂n̂gp#

Uko c Gul vgt gn̂ r̂r gw<

ô K̂c|. pci {u^ai qu d̂ñ̂» Æ̂# C| v o qpf v̂c pgn̂go 0 0 0
Fg Rkuc d^aeuko^at c o^auknj q| k̂v̂ | v̂g c ul »v<

ô D ul g I {3/4i {# ©i { xcp/g Æ Oci c ku c dgeu Ængv²v
ngt guk#

ô K̂gpku. c| #ô d»n̂kp̂vwt^a D ul g0

ô Pqu j^av 2p kw gl gppgn j kxcvnĉuq̂p. xcn̂o gpp{k
gi {dgi { n̂v v̂p̂ Æ gn̂ w. d̂ñ̂ »k n̂ | d n̂ xku| ccf qo c dgeu Ængv²v

o ci^a pcm Uko c Gu| vgt² u o ci^a pcm ku D u| g I {³4i {# K g
p² | | gp o kpf gpnk# Vguu² n#

C| | cn^a v{Àv c| cu| vcrp² u j cvcr cucp o gi t^a | v c
ngl² vgn dd Uko c Gu| vgtpgm o clf D u| g I {³4i {pgn0

ô N^a wc o kpf gpnkA ô n² tf g| vg. u| go² v u| ki qtÀcp
x² i ki j qtf q| xc c vcpwnqP0G| gmt^a hrgm² mm>twudcp<

ô K gplu#N^a wwn#

Uko c Gu| vgt f kcf cmcrp² | gw x² i ki D u| p<

ô P c n^a vl. j qi { ki c| co xqn0 Vwf lc c d² » Àt ku. j qi {
c|² p dgeuÀrgvgo pgo cn² trknrc^a lc0

Rkuc d^a eukj k vgrp n² 4 dgx^a i qw<

ô C d² » krci xku| ccf qw dgeuÀrgvgv² tlpvpgk vku#
C v² ti { cr² v dgl^a tqo 0Gm gj vpgn#

ô C| gi² u| pgo vctqv³ 4 r gteki # 0 0 0 ô hglg| vg dg c
v² 4 v² pggv Dwtmw0 ô J^a v pgo gl c ngi qnqucdd grkp² |² ug c|
k{gp f qri qnrcm A o kA 0 0 0 C hrgm ku o gi xqncm gr² i gf xg.
o k ku grn gj gwÀpm hqi n^a u| p k 0 0 N wÀpm ku c| pcr f² rgn w
u|^a | j cto kpen² vf ctcdqvnrgwgp 000

Dcpf kd^a eukc hgl² veu>x^a nc<

ô J^a v gl v c|² tv o² i ugo rjg v# O wu|^a l c| v c x² p uxkj^a /
nqv r gp| kdc | cxctpk j c k{gpngv euk^a r# Hgi {grn kv hqi qm
kpf² cpkngmpg#

Dwtmwu gn^a vqc c u|^a l^a v<

ô O kA O k² tvA 0 0 0 J^a vA J^a v. j c u| cdcf n² tf g| pgo .
nkuqf c. o kquqf c xci { vg wclf qpn² r r gp. Dcpf kd^a v^a o A

Dcpf kd^a euko quqn² i qw<

ô | p c u| 0 0 0 x^a tquk v² 4 x² p { u|² m grp³ 4 ng xci {qn0 U| cd>
Rku^a pcme h p³ 4 ng0

Dwtmwu c hqi^a v u| v c<

ô P c. hpgg gi {g o gi # G| v o gi euk^a nco # Rgf ki
o qpf v c|³ 4 gi o^a t cmqt. j qi { pg ki gp o gu² ni guugo gl v c
j ku>t² v. o gtv nrgo gv² pu² i g rjg v dgn rg 00 f g j ku| gp
nÀ² / pdgp ugo ki c| c| gi² u| 0 C| c|. j qi { ki c| rjg v. f g pgo
xgrg v² 4 v² p# G| gi { t² i k cpgnf qc. co kv eucm² p hqi vco t^a
c|³ 4 gi tg 000 J c| wf vco 0

ô DgeuÀrgv| cxcf tcA ô n² tf g| vg Dcpf k d^a euk u| ki q/
tÀcp0

Dwtmwupcm xgt² neu² 4 r gm i {³4pi {³4 vgm c j qo m² p. f g
nrc xc/nrc qwtclv. j qi { nklgrpug<

ô DgeuÀrgv| cxco tc#

Xcrgo gpp { kcp mcci wpm o ktg d^a o wxc p² | gwn² 4 Àx<

ô O k p p g x g w m A

Co kg Dcpfk d^aeuk qfcmqekp^oqwc c r qj ct^av c Dwtmw
u²j q| <

ô Pcj^av jc vg nllgppvgwf dgeu^ãrgw| cxcftc. j qi x c
v⁴v²pgv co kv²p o^at m^ãpdgp ku o k^oyc j cm^owco xqpc
xcnj qn pgo kic|. j^av²p ku nllgppvgo pgn^gf dgeu^ãrgw| c/
xco tc. j qi {²p pgo xci {qm v⁴x²p{u|²nk gp³4n0 P go ku
xqnc0 P go ku rgul gn0 P {wi cm c| qw h u| qri cd[¶]> xci {qn0
U gtxw| #

MQU VQNf P [KF G \ U

3: : 7/3; 58

Nf KMG

Nf kmg. rñ uf. gu| go dg lwqw^an O^at rgi cñ dd jcto kpe
2xg pgo i qpf qmco t^af. fg o quv. j qi { 2lv| cñ pñ pv h^{3/4}/
2dtgf gm²u pgo dktqm grñwf pk ô o²i c rgi gt ugdd cncw»mñen
ugo ô uqmo kpf gp gu| go dg lw0Vg ku gu| go dg lwqw^a rñ

Hngvg nku rñ p{ xqñ. qñlqudctpc d t²u ul gr n u0
U| gtgwo v0 Vcñ p c|²tv. o gtv qñ cp²tf gñgu ul gr n m xk^a /
i q| vcm qtte n^{3/4} Æ0 Gi { 8ô 9²xgu i { gto gm ul gtgm g nkuo gt/
j gvgvpp0 Cñ teum gi { 82ô 92²xgu ci i cuv^ap ul gtgm g.
xci { gi { 42ô 52²xgu hcvrgo dgt ul gtgm g0 J^av gi { 62ô 72²
xgu h²thku| gtgm g. c| ku²rr kñ nkuo gtj gvgvpp0

M^adc. dwe p^atk f²nw^apqñp. co knqt qwj qp o kpf gp
^ano qu. wpcu cu xqñ. nktqj cpco wf xctwpmic. c ngtvdg.
c v rxxgn hgp{ m cñ. c fwr rrgwpl^am n^{3/4}² u pgo v^{3/4} fxg
c| | cn j qi { t^ao o^aul vcm c m^{3/4}pd^{3/4} dqi ctm²u euwm»o cv
dk| ugti gw²m c j cpi {^am j cutchm^avgo c h^{3/4}f^{3/4}p. ul go go
ngj wp{ vco u^adt^apfq| vco t»r0 J cxcu v^alcñp dñq| qpi wpm
kñ gpnqt0 V²rknd^awpm | ugd²dgp ô gddgp c o grgi. u^{3/4}²v.
vskñ| cvqu | wi dcp ô ul qtqpi cwm gi { o^au ng|²v0 Qñ nqt
hgf lg j clqnco 0 D^ao wnco qñlqu. ul gr n u d t²v0 C| v^ap o gi /
ngtguvgo c ul^al^av ku. k i c» ul^alcun^al^av. o grñ c j kf gi v n
o gi eugtgr guff gw²u h^{3/4}gr gf g| gw u i { qtucp o gi tci cf vco
c ul^alco o cñ

V²ngp. j »j wñ uqu gu²ngp o^aun²r^a dt^apfq| vco 0 J co ct
o gi wpcwnco c rgen²o gv. j co ct o gi xeuqt^a| vco u h²tcf u^a /
i qv j c| wfxc. gn dd d^alveo^a i { dc. o kp v gi {²dnqt0 Qw hqñ /
vcwco gl v c| grxxgp. o kpf ki o gi Æw». uqj c ugo gñcr quqf »
tgi²p{ v0 Cñ nqt tgp f ul gtkpv hqt». l^arkuk xgt h²p{ dgp rñ v

vo v0 Mßpp{ twj^a eunⁱv xkug^v uko qi cwco rpi {qu
netl^av. o ci co go g^vgo t^a c j kp^vpm ul m fgul nⁱl^atc.
2p o gnⁱlg vgr^rgf vgo u c nⁱ4grng^v 2u gi {o^auv nⁱlgupp
3/4grng. j clvqwwpm h³4grⁱ. t³4 ã^vAp^m c| 2i 3/4x²p{n nⁱmⁱ
u²i²dg. nⁱdw^vnev o ci cutc vctxc. gi²ul gp c euk^mci qnki 0

O^at j quul Æ j quul Æ j »pcr qnki vctvq w g| c vk^mro cu
2uⁱd p³4ë xku qp{0

Gi { 8ô 9 2xgu h^keunⁱp^an pkpeu vr kpvcvquedd ul g/
tgr^o gu0 O kp^vqi { ul gtgr^o g dgn^ãn k| km hg^j2tgp 2u vkuⁱ v^p.
o kp^v c 4222 hqntc jgx[¶]gw rqtengⁱp²i gv ngo gpeg u cw»n
vctv. j qi { gl v o kpf gpnk 2ul tgxgul k^a mcpf »cp c| qp o guvt/
ngf km j qi { gl v ugnkug xgi {g 2ul tg0 fncⁱd dcp h²nu| gi 2u
d^avqtvc^vep o kpf gpnkxgr0 Fg m^ãv³p³4gp Æi {gn ctte. j qi {
ko^af qw^axcn o 2i h²nu| gi gdd 2u d^avqtvc^vepcdd nⁱgi {gp0
J c r²rf^awn c| we^ap rkn^vplc o gi. ght^f¶[¶]mc hgl²v 2u nⁱg/ g/
v nⁱgi pgo n³4ul 3/p pgn0 J c gi { ul qd^adcp vctⁱm^u| km xgrg.
xcro k^v tucⁱi dcp. p{qo dcp nko gi {/ qppcp. h²ng^ãn gi {
uctqntc 2u qⁱkcupk nⁱgf0ⁱ { c| v^p gn ku 2tk j qi { ul gtgr^o 2t n
eucmⁱ {cp ugnkug wf 0Ngi ngx²udd² c|. cnkⁱg xqpcv^u| kn0

! p ku j cuq^m»cp eugr^{ng}f vgo 0

Nkⁱknⁱxgn o 2i ku 3/4ul gj q| qw c ì uqtüë. kngv nⁱgi c v^ape/
kun^urc0 Gi { ul 3/p gpi go ku dg[¶]cwcm qf c0 C v^apeo guvt
ô vci dcu| cnf v i 3/pf 3/4j cl Æ ctu| nⁱp xq^v. cnk gi {ul gttg
j cuq^m¶[¶]qw gi { l»n h^kg^vw. o^at j ¶[¶]pk nⁱgf gw j uul gtgr^o gu/
j gl. o gi gi { o kpf gpdgp eucⁿf qw. nⁱq^rqw eki^a p{rt[¶]o^auj q|. ð.
o gi v^p¶[¶]qw dgpp^ãngv. o kxgn vctvq| wpm c| kn^ogo pgm 2u
wf xctkcu^ai pcm j qi { ngm o gi j clq^mpk uctn^uq^p hqt^fwpk
dqⁿ| pk j qi { ngm c ì j 3/4i {ë/gv v^apetcnⁱtpk gi { nku. crki
2ul tgxgj gv o quqmⁱcn 2u gi { nku. d^alqu h d»r^kp^vu^{en} j qi {
ngm hⁱpk c v^apeq^u nⁱg|²v. qnⁱcp n³4pp{gf²p. o kp^v gi {
gr³4r gp n^rn^v. j qi { ngm^a vnetq^mpk fgtgnⁱv gt ugp. dkⁱvq^up.
xkⁱi h^kcup. fg o 2i ku n^xci keu vkuⁱ vgrg^{en} xci {ku o kpf gptg
o gi v^p¶[¶]qw. co k lqdd v^atuc^ai qnⁱlcp xq^p| »x^a 2u n^{ng}go gu²
v^gj gv dgpp^ãngv0 Fg o gi v^p¶[¶]qw c n^{gt}kⁱpi tg. rqnⁱtc.
o c| vtnⁱtc ku. c| cm^utkf kxcv^uv^apeq^{nt}c0

Nkⁱknⁱxgn i {cntcp v^apeq^{nc}o. fg pgo v³4duj 3/4. o kp^v
c v³4dk nⁱp{qm^{en}0 C p x^an^u|qm cm^{er}o^axcn ku h³4nⁱtv
gpi go. fg pgo v³4duj 3/4. o kp^v c v³4dk nⁱp{qn0 X^an^ki euq^f^an/
n^u| vco ku c| qp. j qi { ì o gpp{kg gr^hngl^vw o kpf gp^vë0 J v
rpp^gm vctvq^{co}. n^æ2tpcm nⁱgi {gv^gpp^gm o kp^v L»n^{ck}
ì l²i ngdn fgp k^ë/0

Mct^a euqp{ v¹l^ap o^at c v^apex^k ui^atc n²ul ã^vã^pn0

Gi { gung c r̄p{qm m̄n̄p i {cniqtq̄m̄ m̄ c htcpekc p²i {guv0
 | p gi { ctcp{q|qw v̄n̄p̄ o gngw ãngo gi { f̄u| r̄a m̄ c ^atp{²/
 n̄idcp0 Hki {gngco c v̄pe c̄rcm̄c̄ck0 C v̄peo guvgt qn̄nqt
 j ctu^ap{cp tkm̄p< i| v̄0 Ej clp̄g cpi r̄kug0 J ³/₄ {gm̄ ngw xgn
 gn tgē0 U co ƒi c u| ƒp̄gu n̄ti c̄vi dqp{qn̄f̄q̄w. i qo qn̄{qf̄q̄w
 co ƒi c i j ³/₄ {gn̄ē ²u i w̄cn̄ē gi {o^au^wn̄ gn̄ c̄n̄f̄xc. kn̄gf̄gn̄/
 o gungp. fg o ci w̄nev̄ n̄gn̄v̄³/₄p̄ r̄pi gw̄gm̄ c o w̄ukn̄e h̄w̄cn̄/
 o^adcp. co ƒi c| cpi qn̄ v̄pe o gi n̄³/₄ f̄³/₄v̄ u c v̄peq̄m̄ c
 n̄ctq̄nd̄>n̄ng| gn̄d n²n̄ n̄cr̄w̄n̄p̄ ²u ²n̄ d̄qn̄³/₄x̄gn̄p̄ ^av̄ o quq/
 n̄{qi xc d̄À>eun̄| w̄cm̄ ²p o k̄pf̄ki eucm̄ Nk̄f̄kn̄v̄ r̄nḡvo. cn̄k̄gm̄
 g| gung gi { x̄kj̄qi »u| ³/₄u| nḡ r̄p{ x̄qn̄ c r̄^atlc. n̄³/₄ ³/₄p̄{v²u
 w̄pc̄m̄ cv̄ v̄gw̄x̄g. v̄³/₄d̄dp{kt̄g c euk̄n̄^attc o gt̄gf̄x̄g. o k̄pf̄ki/
 o k̄pf̄ki eucm̄ c| cte^av̄ n̄gt̄gungo c| cteqm̄ ugo o ko q̄pf̄>
 uq̄n̄f̄cm̄^adcp. c| n̄q̄o qn̄. lo^af̄q̄w cte^av̄. o gn̄{ o clf̄
 gn̄ pv²u v̄^ax̄qn̄f̄q̄w. o clf̄ h̄³/₄d̄w̄m̄pv̄ ãpp̄gr²n̄{gungp u r̄cūcp
 r̄ldgi x̄g n̄³/₄ gr̄f̄ gw̄h̄ḡr̄o c r̄^ao r̄cl²p{gu r̄x̄gi d̄gp0

Gi {u| gttg eucm̄ gi { ng| gv²tg| v̄go x^am̄co qp0 H̄³/₄wi tqv̄
 w̄co ²u o gi j̄clq̄nc̄o 0 Gi { h̄erp̄ w̄ x̄q̄m̄ gi { h̄²tk̄ Nk̄f̄kn̄g
²f̄guc̄rlc. cn̄k̄ v̄| d̄k̄ v̄q̄u³/₄uk̄ j̄k̄xcv̄p̄qm̄ x̄qn̄ u o k̄pf̄ki h̄ḡ²t
 o gn̄²p{v̄ x̄k̄gn̄. qn̄{cp̄ x̄cn̄³/₄cp̄ h̄ḡ²t. i {³/₄p̄{³/₄ c̄v̄cu|/
 o gn̄²p{v̄. o gn̄{gv̄ eucm̄ t²i gp̄. x̄c̄rc̄o kn̄qt̄ c d²n̄²d̄gp̄ x̄k̄gn̄gm̄
 x̄f̄²nk̄ ãt̄go d̄gt̄gm̄ cn̄km̄ v̄| d̄k̄ v̄q̄u³/₄ūcn̄ ku h̄q̄i r̄cm̄q̄| v̄cn̄0
 P go w̄f̄q̄o. o gū| gddt̄ n̄ l̄³/₄v̄/ḡ q̄fc̄ j̄q̄|^a. x̄ci { o^at
 t²i gdd̄gp̄ q̄w^a n̄f̄qi^a n̄v̄ o gngw̄go. c htcpekc p²i {guv̄| go r̄^akḡ.
 fg o quv̄ o gngw̄go ^an̄x̄ x^am̄co tc̄ v̄gw̄ nḡ|²v²u o gi u| »n̄³/₄q̄w0
 Euc̄n̄ f̄l̄c̄p̄m̄kuo gt̄v̄ m̄gi {o^au0² ku kuo gt̄v̄ gpi go 0 Gi {u| gt̄ gp̄.
 o k̄pf̄gp̄ v̄nḡw̄tk̄ p²m̄^an̄ o gi n̄²tv̄. j̄qi { c v̄pekn̄m̄r̄c̄ w̄³p̄
 o clf̄ n̄³/₄tl̄go j̄c|c Nk̄f̄kn̄v̄ p̄go x^at̄j̄c̄lc̄ o gi. gn̄ gm̄m̄
 o gp̄p̄k̄ x̄c̄m̄j̄ qx^a0

Nk̄f̄kn̄²tv̄ gu²p̄n̄k̄pv̄ x̄ci { l̄³/₄v̄ gn̄ x̄ci { c h̄nḡu²i g0
 | p²v̄go c̄m̄qt̄k̄dcp̄ o^at̄ p̄go l̄³/₄v̄ uḡp̄n̄k̄0 J cto cf̄km̄ gr̄go k̄dḡ
 l̄^atv̄co 0² p^am̄ h̄²tk̄x̄q̄nc̄o 0

G| c o gi d̄³/₄v̄ u qn̄{cp̄ d̄q̄f̄qi^a v̄gw̄. j̄qi { o clf̄p̄go
 gn̄ l̄w̄nc̄o 0 M̄ko gp̄v̄go c h̄q̄n̄>u>tc0 C l̄²i x̄k̄^ai qū c̄d̄r̄nt̄c̄
 v̄r̄cu| q̄w̄co cteq̄o 0 M̄^app̄ h̄ci {qu²l̄u| c̄n̄e x̄qn̄0 C w̄u| v̄.
 j̄kf̄gi ²i ãi { euk̄m̄qi q̄w̄ o k̄pv̄c| ãx̄gi 0

Gri q̄pf̄q̄nc̄o. j̄qi { gdd̄gp̄ c n̄tk̄v̄^an̄{qu. h̄tk̄u²l̄u| c̄n̄^adcp̄
 o clf̄ n̄gw̄gud̄gp̄ o gi { ãp̄m̄ Nk̄f̄kn̄^ax̄gn̄ ô ãi {. co k̄pv̄ gn̄^ar̄/
 | gnḡo ô eucm̄ o gi { ãp̄m̄ o gi { ãp̄m̄ c| q̄n̄p̄ c| ḡj̄ci {c̄v̄q̄w̄
 w̄e^an̄p̄. o gn̄{gn̄p̄ c̄pp̄{kv̄ v̄p̄h̄gt̄gi v̄go gi {gf̄ ãn̄ tg^a x^atc̄/
 n̄q̄| xc. uq̄n̄^aki eucm̄ o gi { ãp̄m̄ o gi { ãp̄m̄ v̄c̄n̄^ap̄ h̄^an̄^aki ku.
 o gt̄v̄ o gū| ḡ r̄cm̄cm̄ c j̄q̄px²f̄n̄cu^atp^ap̄ v̄^an̄ c| gf²p̄{r̄k̄ce

n̄4p{2n̄p0 C|v̄p uqm o kpf gptg i qpf qnco 0 Dqrf qi ū^a i qo
 c|qpdcp pgo xqrv |cxctvncp0 O^at o kpf l^atv c| gnu o^auqf/
 rgtedgp. co knqt c| crlc n̄4 3/4ng xrgo o gi v̄u|vgn²u f³d/
 dpgvgu n̄k^apu^ai^av. h̄4p{krcv dgpgo c i {cp^À jqi { o k^{tv}
 gpi go n̄t o gi gttg. c uqm h̄k^À n̄4 Ñn o k^{tv} 2^{rr}gp gpi go 0
 Vcñp uglv xcrc k^À G| wpf qt[¶]» xqrc0 Wpf qt[¶]» xqrc.
 2o gn[¶]v²u grklugj gvgvcp xqrc. jqi { c eucñf dgrgxcv/
 n̄u||²m gddg c| Ñi {dg. jqi { dgrg^atvc o ci^av c| 2^p u|g/
 o²n̄gu Ñi {go dg cñtnk gi { go dgt. c| crc. c| crlc. cnk
 o gngugi 2^{rr}gp qn{cp hngvg xqrv. o kpv c n̄p{c u gi { n̄eukv
 u|gr n u ku0 Xci { vcñp gi {gpgup i Ñp{qrpkcñctv g| gn rt>d^atc
 vppk r̄rtg eucpk o gi eu^Àqpk u x²i Ñn n̄kpgxgpk^ÀG| u| 3/4p{
 xqrc0 Pgo nku hglv^{3/4}2uv qn̄u|qw pgn̄go c| ku. jqi { o kⁿ
 dgu²i gvgm o clf Nk kn̄xgn glgp c v̄^Àqpv^Àn jqu^À Ñ Ñq^p0
 O^at uqm o kpf gpv wfvco gmn̄qtkdcp. xcf^ancvnt>n²u xcf
 p²r gnt nku. fg cw>n vctvqco. jqi { gl gm gvgugi pgo 2^{tf}gmkn
 v0U[¶]xgo j cpi qucp n̄rko r^am0

¶ { j^ap{>fvco dqrf qi ū^a i 2u |cxct n̄4 3/4v u n̄4 dgp
 dg/dgp²|vgo c v̄pevgtgo dg²u n̄k²|vgo c h̄qn{qu>tc0

Gi { ¶ dgp. co knqt o gi kpv c h̄qn{qu>tc u²f Ñngo. jqi {
 qw c jkf gi dgp j vgo n̄|co cv. v̄u|v̄||co gi {tg m̄u^Àdd
 i qpf qrcvco cv²u d^avqt^a i qv u|gtg|gm c pci { x^am̄m̄u^Àutc.
 jkvggp c twj cv̄ tdc ukvgo. n̄xvgo n̄c^dvqo /n̄r̄r qo
 2u ug u|>. ug dgu²f. gi {gf Ñn x^a i v̄vco j|c. o kpvj c xcrc k
 Ñf^{3/4}pg00 gi u 3/4ngo 0

Jqi { o k^{tv} v̄vgo glv^À O krc i {3/4{3/4. quvdc 2u
 d^{3/4}eu qm o k̄w. o gn{gv v̄^À gvgup uqj cug t²u|rvgl vgo 0 O quv
 ug wf^p o t²u|rvgl pl0 Gf̄i c| j q||^a. kngvcp^Àn̄ n̄xci k̄v̄cpwn
 dw³p xkugm̄f vgo 0 Nk kn̄g. u|gi²p{. c|qp c| 2^{lu} cñp o ci c
 dcpf w̄n̄v j|c u tgu|ngv̄w c jcter>u r̄tcu|v̄m̄x̄cu|qm>n
 o gn{gnv n²p gi {2dn̄pv o²i lqddcp tgu|ngvgo 0 f gucer
 o^aupcr u|go tgj^ap{^auv ku v̄gw o k̄wc c| 2^p 2^fgucr^a o pcm
 Qvj qp o gi u|k̄vcn̄00 clf h̄4v̄ ctvc u²i {gp0

W³pc v̄^Àu| u o cpf w̄rc̄dqv n̄r̄vco. pgo ku o gpvgo
 v̄/dd² v̄pekun̄ñ dc0 i { 2^{tv} x²i gv c| Ì Ñi {ë0 Nk kn̄xgn Ì u|c/
 n̄[¶]q̄vco ë0

Fg o²i 2^{xgm} o Ñkc ku grk̄wnc̄o. xcrcj^ap{u|qt t^ai qp/
 f qnco 0 M̄u dd o^at eucm j qo^an{qucp ucli qw c| gi²u|0
 O quv gn u| 3/4 2^{rvgo} dgp o gtgo dgxc̄mpk o ci co pcm o gp{/
 p{k̄g h̄l ð o gtv o²i o kpf k̄i h̄l ð jqi { c|qp c| 2^{lu} cñp
 pgo n̄[¶]t²vgo j|c c Nk kn̄v̄0

J clpcn h̄r̄f. co knqt cdrc̄n̄yo cv o^at c u|gr vgo dgtk

xktcf cv u| Ānñk ² u j cmqo c u| go gvgnqek | ¾i ² u² v c| qp
 v̄t tgi gm j qi { ngmgpg xcrc k j kxcrc. xcrc k kp² | o ² p { v
 r̄ v̄t tgi gm j qi { ngmgpg xcrc k j kxcrc. xcrc k kp² | o ² p { v
 r̄ v̄t tgi gm j qi { ngmgpg xcrc k j kxcrc. xcrc k kp² | o ² p { v
 c| kñ gp gñp² | gvvp Āi { gngv u p² o k gr̄ i v̄ v̄. n̄ tr » v̄ u
 u| qri ² ncvpgm Āpn0

O kvu » nu| gj j g| Nk kngAO qpf f. j qnxc i { A' nu| /g o ² i A

I ~ N| f M

Co knqt h̄mgt Āngo Rgvt.g. u dgktcvnq| vco c d³eu² u| gv
 u| cntc0 ô dgu ² ng Guk Mqt² n ô gi { h̄f ko o gn xgvgo nk
 j » pcr quu| qd² v gi { lqi ² u| cn cnkj g| ugo o k gi { ² d ncr qeu
 pgo h | ¾. o kp̄ v̄ qi { v̄t v̄ pgvgup cddcp c x² tqudcp u| Āng/
 v̄w. co gn knlgp ² p. o gi c|. j qi { u| kp̄² p gm ² xgu xq̄.
 ² r r qñ i { ² o qncrp. gugvvp i » n{ c. o kpvo ci co 0

O k xk² nkgm cmqt r̄j gv r̄i gi { x² tqupgi { gf dgp. gi {
 j ² | v̄o ddgp. gi { d² tnev̄ ² tp { ² dcp ncnwpm0 Kv j qm k u³ ² v.
 dcd² t u| ¾ xgu² i gv n̄ ¾ ¾ Āpm c i r̄ gvgnē gmgp. cnknt n
 o kpf gp i c| u² i qvgrxg h̄m² v̄r̄ | v̄ Āpn0

M̄n̄ ¾ ¾ up c j ² | o gvgtgntg jctci wf wpm cnkm gv
 v̄ » tc w̄ p ncr w² p | v u| gf v̄m u c ncn̄ ucf » p ntg. cnkm c j »
 gngl² p c tgp f gmg | ² u Āntg dqu² v̄w u| qd² m j cu| p² ncv
 gmgp² dgp ô p { k² p crlcu j cu| qpru² ud n ô r̄ qvqcp o gi /
 n̄ ¾ xgvn² m j qi { c | ² tv Ām ncnw̄ qv nqtq² ncv o gi h̄ guu Ān0
 f ncn̄ dcp o gi xq̄ wpm i { | f xg. j qi { c r̄ gvgnm cj qn eucm
 v̄j gv̄m dgeur pem i r̄ r̄ t̄g eucrcnē. nku| k r̄ qñ | q | pem dgpp Āp/
 ngv. U » xcn̄ ¾ u| gvctqwwpnē

M̄pp c| we² p. cj qn cpp { k h̄ r̄ gm gvugp x² i v̄ » gi { /
 h̄j cv̄ Xq̄. v̄ tu| gn̄ t. ngt² nr̄ ² t ² u kuo gtgvvp k² p { dc j crcf »
 xkrc qu. u| kp̄² p gi { Āw l² twpm / ngn Āpn0 C | gi { gvgo gp.
 gn cf² uqm w̄ p u| kp̄² p o gi x² twm gi { o ² u0 Gi { Āw o gpv Āpm
 gd² f gpk cddc c fl² nxgp² i n dg. j qn pgi { xgp h̄m̄ t² tv j² tqo
 h̄j ² uv ner wpm tqrrcpv ngxgugv. xku| qp v i u| cdcfē ngp { ² t
 xq̄ u| cm c | . ucxcp { Ā h̄j ² tngp { ² t. cdd » n r̄ x² i j cwpm
 j ² v̄ p { qre fctcdqv ku. j² tqo / p² i { r̄ qj ² t xk̄ gv kwpm t² u
 cw » n c | ² r̄ u | v u cp { ci Āi { o gi fci cf v i { qo twpm lcp. j qi {
 v̄ / d² ugo o k̄ r̄ g ² j u² i gv pgo ² t g | v̄ Āpm u o ² upcr f² r̄ ki p { w
 i qf v̄p vgn̄ v̄j gv Āpm | gugo ² p { gmg r̄ 0

Gddgp c| gnu k̄ dgp xci { c ncn̄ v̄ tuco x² tv o gi c |
 gi { gvgo gn w. xci { ² p v̄ Xgrg dcnci vco c hgtgpex² tquk

we^a nup cddc c xgpf² i n dg. o gn{pgm² vgrd | g o c ku xkuu| c/
n¹l²tv^a m cko dcp0

ô Eucm gi { r kncpcvc ô o qpf vc kn{gpnqt² u grv pv0
Eucnj co ct hgr³4r³4w pgn^o. j qi { c lqi^a u| c xgpf² i n dg
l³4gv o gi^a m c| wec n³4gr² p u dgwi tkm gi { nku f kxcv³ tw/
dqndc0

Fg pgo gi { r kncpcvi ngn^o gw t^a x^a tcn¹ p qo. j cpgo
i { cntcp³4v¹ r gteki ku0

O kpj qi { gi kuo² n f³4w u ô co kp v n² u dd o gi^a mcr¹
vqwo ô eko dqt^a o o kpf gp^a r f qw per o gi^a m v gl gp c|
we^a p² u dgqupvgddg c f kxcv³ twdqndc. xcnc^o tc hqi wo <

ô O qpf. o kc hgp² veuk^a n¹ v g kwA

ô Ugo o kvô xgvwg qf c0ô C|c| xgwgo xcnc^o k0

ô OkA

ô Gi { kpi i qo dq0

ô Gi { gvA

ô Gi { gv0

ô O kpf gpper gi { kpi i qo dqvxgul gnA

ô K gp0

ô Vg o ctj c ô u| » nco det^a v^o i 0 ô J^a v o k² tv pgo
x^a u^a tqn¹ o kpf l^a tv gi { wecvq. xci { c| v j ku| gf. j qi { c|
kpi i qo d qn{cp. o kp v c xcl u eucm Ai { l». j c hkuuA P go
tqo r kmc| o gi ORt» d^a r f o gi OG¹ n0

ô P² j c gi { gdgv ku xgul gm ô o qpf vc cnc^o wu| kcp0 ô
Gi { i cn² t0Gi { p{cmgpf euk² vgv vku00 kpf gpper xcnc^o k0

ô P² | f ô u| » n² tgl² n{gu o quqm{cn0 O gi o ci {ct^a | qo
pgngf 0I {gtg kf g0

Qfexqpv c nkcncv gr0 T^a o wcvqw gi { hgi² t nctvq/
nr tc0C| qp wuucng| xqn^o nktcl| qnxc<î kékqp r ctrg htcpeck0

ô G² tv l^a tqmk² g ô vgw j q| |^a 0

ô G² tv Aô f o wv q| wo 0

ô O² i o kpf ki pgo² tvgf. vgn^o A

ô P go² p0

ô Htcpek^a wndgu|² ni gvgn0

ô MxgnA

ô C ugi² ff gr0

ô C ugi² ff gnA

ô C|| cn j^a v0 Xcp kv gi { ugi² f0 C| wf htcpek^a w0 Xgrg
r ctn¹ | q| qn0

ô O k² tvA

ô J qi { i {cnqtqrnc^o o ci co 0

ô Co knqt hgr³4wgo. c|³4gi go u¹ kxgo tg n³4wgo. j qi {

pg jcp{ci qrlco gn c htcpek² v0 C tg^a ml>n o²i wf qm xcrc o k0
P go cnetqo . j qi { c| vc ngxgugvku ghrgrglvgo 0

ô | upgo t³uvgru| gl²tvkf gl^atpkA

ô M²trgm xgppk Ai {ku ngm gl v|c| v0 | p dgqu| vqo 0
Crt>f qpn²pv x^au^atqmqn0 i { ngi cr^add lpi {gp xcp c htcpek
ngeng0

ô P c jcmqf ô euqf^amq| vco u n²4 dgp ettc i qpf qmco .
j qi { kn|gp c| gi²u| rgtgr ww{c. c| crlc ku. c| cp{lc ku. cnk
n²v|gt h | knkc ngxgudg xcrc n²o²p{o ci qv0

Hqn{v wco <

ô C| v²p ngi cr^add l>ndgu|²nhtcpek^a wnc| c ugi²f A

ô L>n ô o qpf v0ô Mkv p gp0

ô | u o kt n²v²tucmji vqmA

ô O kt nA ô x^anev xqp v0 ô Co k gn hqtf w0 i L> per qv
wtco 0 i Oc pci {qp o grgi xcp. wtco 0 i Oc pci {qp j kf gi
xcp wtco 0 i Gi { lpi i qo dqv n²tgn0 i Gi { p{cmgpf /
euk v²4 n²tgn0 Xci {ku o kpf gpt n co k u | Am²i gu c v²tuc/
f cno k²tkpvng|²udgp0

ô | tfgrgu ô f App{³4 vgo 0 ô Eucm c| c dcl. j qi {
t³4kf kf gli vct0 O gff ki A Qv r gteki . v|| r gteki 0 P gngo wi {cp
gr²i j quu| À cnk kw m²App x^atrcm m²Ap³4gp. j qi {j c kn|gp
mw^awn h^al c u²n o kv o c. fg o »ful gtgu nkn²r|²upgm o²i ku
t³4kf 0 P go i qpf qmf A

ô Xgff c| qpdcp hki {grgo dg. j qi {²p o k>v h²pp xci {qm
j^atqo j gvg ô Appgr/ ²u xcu²tper qnev nk²xg ô gi {gvvgp
per qv ug o wrcu| vqwo gr0 O kpf gp per ³4 xci { v|| r gte0
Uqmneukuqntc o gi 0

ô G| ki c| 0

ô | u o^atku u|²r j crcf^auv vgwgo . r cl²v²u0 Mku^a o ||vqwo .
j qi { j c p²i {²xki . co || c| gi {gvg tg l^atqm n²4xvgo gl v c
o »ful gtv. gl h²4²t gi { r^atk uk vpw^ap{Àvcr0 V³n²ngvu
htcpek ngul gm r cl²v²u0 Gi { mcle^at m²Ap nkc^au p²m²An
r cl²v²u0

G Xcmqo^au crw ukngt²Anv o gi tk pgo nyo qn{u^ai qo i
cpp{kcnc ku kpn²dd. o gtv o quv o^at j Argf gl vgo . j qi { o leuqf c
euqf cdqi ctm²rpmg gl gp c h²4f³4 u o gpp{ktg pgo kuo gtgo
gl v c| crcnqv. cnkv gff ki . j c pgo ku r²pi gr²pgm fg gi²u|/
u²i gu v²4hkm>pcmwctvqwo 0

Dgxcmqo . gw n hji xc gpi go lu k i cvqw c f kxc²v²twu dqm0
Xcncj^ap{u|qt grj crcf vco o gngwg. dg/dgr kurpvqwo 0 H^avc
c| qrf crco . j qi { nk ngi gv c| c euqf^arcvqu ugi²f. cnk o guvgtg
c rcm>²tuco pcn0

Gi { pcr qp. o knqt p²m^ãng o gpvgo c f^knxgpf²i n dg.
dgp{kqwc0

“ tgi. hcp{ct ngtgungf^a mv c dqncu| vcp^a n hngvg j^a| k/
ucr n^ãdcp0

ô Ok vgu| kmAô o qtf wv t^ao tkf gi gp. o kpv ch²rg v^k gp/
nk^gpe²xgu n^mt^mc u| qn^ãu0

ô Gi { kpi i qo dqvô jgdgi vgo 0

Gf^o n^ã4^ã4w p²j^ap{ qreu» t²| i qo dqv0 Co ¶| wtn^ãnco
n^ã4^ã4w^ãAm o gi nqen^ã| v^cwco c n^ãtf²u0

ô Dgu|²nkwxrcn^khtcpek^ã wA

ô Htcpek^ã wA ô u| »nv c| ³/₄gi u u| go g h^ãreukmpv0 ô
J qi {pg. n^ãtgo. j qi {pg0 D²rc ô nk^ãnqw u c vgp{gt²dg
eucr qv0ô I {gtg eucmkf g0C| Àt Htcpek^ã wncnet dgu|²rp^k0

Uqx^ap{. u| ng h^cvrgo dgt uqo rqnⁱqw gn c o gm^ãn^ã
j gn^k²i d n0 Pgo kf ugdd. o kpv o k0 —i { v^k gpn^kgpe/j Àu|
²xgu0

ô “ p HtcpekAô n^ãtf gl v^g vgo o ci {ctw0

ô Pgo ô x^arcu| qnc0 u| kp^vp o ci {ctw0 ô | p pgo
Xci {qm n^ãtp²o. Htcpek0 Eucm²tf gm fpk d^avtmqf qo 0
³/_p dgu|²n^khtcpek^ã wA

ô Qvk ô o p^qf v^c jcmep. c hgl²v nk^u² gntqtf ¶|x^c0 ô
Lg rctr^g wp rgw ô fg qn^k dk qp{v^crpwn²u c^ã| v^cqucp. j qi {
gl n^ã4^ãAndgn^ãneucmgpp{kvlg^gpv^gw<1 Ki cmqo ë0

ô M^ãh^ã4f³p vgu| gw^cvpw^kA

ô Qj. fgi qi { ô tgdgi v^g ô eucm kw c tg^andcp0 V^cxcn^k
²tgw^ãi k^ã vgo 0 P²j^ap{ u| » t^ao tci cf v c| kun^ãn^ãdcp0 C rrc c
ô o p^qf v^c u c hngvgukⁿu^ã ³/₄gi Àtc r^kmpvqw ô l³/_k tg
nk cnet m^ãrf gp^k0 Cf fki ku c| v u| gtgv². j qi { kw c| ã^ãrgvdgp
i {cnqtqrlco 0 G|²tv cneul vqwwm nk c v^ãdn^ã0 J c gugv^gi
grxgv fkmk^ggi {/gi { Htcpek000

ô Rgtu| g gttgh^ã pgo ki gp l^atpcn0

ô C| v pgo o p^qf j v^ão 0C p^ãtq^p ku ô Ài {/g rrc cA ô
Dgl³4w n^ãv r^atk uk0 Mgu| v^k v xgwgⁿ0 Vgto²u| gv^ggp c| ki c| k
htcpek^ã nev pgo ki gp rgj gv o gi²tv^g0 C| qn^pcm qn^cp h^ãteuc.
j cp{ci nkgl^vu^ãAm xcp0 Pgo qn^cp. o kpv Dqntquu vcp^at
Àpcmc tg^andcp0 O kpf ki j cf ctpcn0 F g c|²tv o^a uqm ku dgl³ppgm
u Htcpek^ã wndgu|²rp^gn0R²rf^a wngi { h^cvrgo dgt0

ô M^ãeuqf cA

ô Gi { xgx pn0 C| pcr qpv dgl^at u eucm Htcpek^ã wⁿ
²tkpv^g| kn0J c l³/_p. c rrc c o kpf ki gpi go j ¶^k0

ô Vcn^ãp gl kur^atk ukA

ô Ngj gv0 P^kpeu nk^atxc0 Fg kpn^ãdd c| v i p^qf qm^o .

j qi { ux^alek0 Xci { dgni c0 O^aul²rg nkg²vug xcp0 Gngkpg v
 ku pgj g| gp ²tvwgo o gi 0 Co knqt kpi i qo dqv n²tv. ekr /
 j w| »v o wcvco pgn0 wf pknkn v²ddp{kg kpi i qo dqv
 xgu| 0 Fg o quv o^at hqn²npp{cp dgu²ni gv²pn0 V rg vcpwqn0
 —i {u| »n^ap o kpf gpv v rg vcpwco 0 Eucm i {cnqtqpk ngn0
 ì I {cnqtrevgu| kc o guv²vë0
 ô J^avô u| »nco v p f xg ô h²gvgn0
 ô Okv| cdcf u|^ao fcpqo A
 ô Gi {kpi i qo dqo xqn0
 ô Eucm gi { fctcdA ô n²tf g| vg u i {cpcnqfxc ucp/
 f²qwhg²o 0
 ô Eucmgi { fctcd0
 f vxgw c r²p| v0 Mkn²tv c| clwki 0
 Qwdk cm cucp c h²go dg u²vc<
 ô Cwtgxqt. O qpukwt0

J CTUf P [K UQNV

3: : 9/

HWTEUC GO DGT

Gppgm c $\frac{3}{4}v^2$ pgypgm c xk¹i qp ugo o k ²tvgrn g plpeu0
 V p f^{3/4}m ku o ci co dcp. j qi { grn qpf lco /g= xci { ugo 0
 P go d^apqo ²p. j c plpeu ku ²tvgrn g. grn qpf qo . o gtv o knqt
 pngno grn qpf v³m ki gp l>n o wrcwo tclvc. j cff o wrcuqp
 c| ku. cnk qkcuuc. j ceucm gi { j crx^ap { o quqn { gtgl²ki ku0
 C| ku xcrc o kc o ckxk¹i dcp0

J^av u| »xcn dg^an¹v c r²m¹rgvdg gi { Àtkgo dgt0 Mk/
 hqi^aucrcpwn xcp $\frac{3}{4}n^3$ xg. c twj^al^ap ugi qn gi { gvrp i { t /
 f²u. gi { gvrp rgj gn0 N^av| km j qi { ki gp r g f^apu go dgt0
 Qf cfr c r wnj q| ²u hgn| »n¹lc c r²ngv. j qi { o wrcuqp pngk
 u»ur gtgeg0 C r²m qf cvgu| gi { euqo » u»ur gtgeg0 C r g f^apu
 Àtkgo dgt r xgu| k c u| go Åxgi²v. | ugdngpf xgn vku| v³tc $\frac{3}{4}trk$
 xku| cvgu| k c u| go ²tg. c| v³p tgpfn¹k¹Ån mjo qn { cteecn u| go /
 Åi {tg xgu| k c u»ur gtgegng0 P²| gi gvk d¹a ni cvlc. d»mji cv0
 X²i tg o gi u| »rcn<

ô O qpf lc. n²tgo . wf p^apcm pngno u»ur gtged n gi {
 d^{3/4}dgv vuÅpkA

ô Ok n²tgo A

ô Gi { d^{3/4}dgv v0

C r²m euqf^amj| kn0 F gj^av pgo c| f qri c. j qi { ht/
 wcuuc c xgx m hwteuc¹i ck0 C tgpfn . c| tgpfn 0 J qi { pg
 ngj gypg d^{3/4}dgv v uÅpk j c o gi h¹gvkn0 O gi cmw| pcn0 C r g/
 f^apu À j quu| À cmw w^ap o gi^ancr qf km c| ^atdep. o clf
 r qpvcup o gi^ancr qf km cddep ku. j qi { j qprc f²ngn w dgl^{3/4}p
 c u»ur gtge/dgv ²t0 C| v³p i qpf qrcvqndc o gtÅxg grn gi { 0

O^aupcr h²n¹mt eucm¹ { cp dgfr c| Å¹rgvdg0 Rqpvcup.
 o kvpc| »tcÅ²u0

ô O gi xcp c dgv A
 ô K gpku. vgu² mr ctceuprpk0
 C nqo qt Àlgo dgt o gi p² | kc dgv v0Eu»x^a rlc c hgl² v0
 ô Pci { v² xgf² u xcp kw. nřtgo 0 | p pgo nku d^{3/4} dgv v
 i qpf qnco . j cpgo pci { D^{3/4} dgv v0G | vpgo xgi gvgo ^a v0
 ô Pgo decl. nřtgo . j qprtc o gi euk^a rwm c pci { D^{3/4}
 dgv v0Vgu² m² tvg dgl² tcf pk0
 ô L». j ^a vj qprc o gi kpvgr^{3/4} n0Cf² u | qn^a lc0
 ô Cf² | cvqu u | qn^a lc0
 ô Lc kic | . j qprc xcrto k f qri qo rgu | h² n² | nqt0 P go
 l^{3/4} g² mdg c dgv ² tvo ^a t nkrpenqtA
 ô Fgi qi { pgo . eucm vgu² m dgl² tcf pk nkrpenqt0
 Gm gi { . o ^a upcr nkrpenqt l^{3/4} p0C r² mgr² dg vric c
 dgv v0C r gf^a pu Àlgo dgt o gi eu»x^a rlc c hgl² v0
 ô G | pgo l>0 | p uqmn nkrddgv i qpf qnco 0 P go
 ngj gvnkrddgv euk^a rpkA
 ô Fgi qi { pgo 0 Euk^a n² pm nkrddgv0 M⁴ ãrdgnãn o gm
 nqt^a vo ² n» | cvkmi qpf qpkA
 C r gf^a pu À r crkquv nřt. gn xgu | k v^{3/4} v qm v. hgtcl/
 | rlc r qvquc p c dgv v0 C r² m grgu | k c o kv² v0 O gi ^a ncr qf/
 pcm c | À j cv³ tpcrdep J qprc pgo rj gv. o gtv c | kngv
 Àpcm xk² ntg nrm wcl plc Fg j qprc w³ p dgl^{3/4}. o ² i r gf ki
 j ^a tqo pgi { gf p² i { nqt0 O gi hrgng | c | kf AJ qi { pg. o gi hrgn0
 J qprc w³ p xcrdcp l^{3/4} p c tgp gn 0 Gr dg vgu | km c dgv v0
 J quu | cucp p² | k0Go gri gk o ² tgi gv0D» rkp0
 ô G | o ^a t l>0 Eucm o ² i gi { nku j klc xcp0 J qprtc
 vgi { gpgmt^a v^{3/4} d u» v0
 C r² m v² tgm gup ² i² tk j qi { j qprtc gl ku o gi rgu 0
 Vgu | pgmt^a gi { ngx² u» xcnv^{3/4} d dgv0
 X² i tg gr² tng | km c | wqn» r² vqi cv³ u0 C r gf^a pu Àlgo dgt
 o gi p² | k c D^{3/4} dgv v. co gn | u» ur gtged n nř u | ãn0 J gn | gun gp
 d» rkp0 Gn xgu | kcr t r² p | v³ te^a l^a v. nkrk gv0
 ô Dgeuqo ci qrlwmAô nř tf kc r² n0
 ô Pgo u | ãm² i gu ô hrgrk c | kf gi gp0
 C | | cnxgu | kc dgv v² u o gi gu | k0

C XGTUGP [

U | p^j ^a | w³ p xeuqt^a | » v³ tuc^a i i { cp^a pv xgt fv ãpm
^{3/4} u | g0 C fctcd ku. ² u gpp² rñqi xc c xeuqtc ku pci { qp nqt^a p
 x² i | f^{3/4} v0 C v³ tuc^a i pci { qddkm hgr² pgm o ² i pgo cm/

t>f|qw j c| co gppk0 Mx^anv c j^{3/4}i {gm ci k^ancm jgxgugp
 co gmgw. j qi { o gpl[~]pm xcrcj qx^a0 Cnk c| wcm n^{3/4}Ān j c/
 dq|pk o gtv²u i {^ax^ap wi {cp. fg o²i ku c j c| co gp²upgm
 ki {gn|gw j cpi qv cfpk c| v ngvtn³m c| |cn j qi { ul qo /
 dev guvg xcp. c| wcm o^aupcr crj cvpcem co gpp{kv cnetpcem
 ¶i { c| v³p o²i gm gpv[~]pmgi { v³pej gn{k²i dg0

Ok c xct^a|uc c| kn{gp nkt^apf w^aupcmA C n^{3/4}3/4pu²i.
 co gn{pgm o ci wpm ku vci lck xci {wpm0 C| go dgt c o q| i^auv
 p²|k c v^{3/4}gi gv. c v³peqn³nev²u Āf^{3/4}2ⁿngv0 Cnk kuo gt u.
 c| c|²tv²tfngv. o gtv kuo gt u0 Cnk kuo gtgv³. c| c|²tv.
 o gtv kuo gtgv³0 C n³qⁿqⁿnev nqt^apugo c| vctvc gn co kv
 c o ci wm l>xqn³d>n p{Āvcpcem j cpgo gi { co qn{cp Tqwu/
 ugcwlf³rg ìeqp³tev uqekcm c| c j emi cv³nci qu v³tucfcm k
 ul gt| f²u. co gn{gv c n^{3/4}3/4pu²i n^{3/4}3/4po ci^axcn< dgvg³ur ul km
 dk qp{qu j gn{gntg. j qi { p²|gi guug³po ci^av0 Ver cu| vcrj cv>. j
 qi { p²|j c gi {/gi { xgpf²i n. d^at. v³pej gn{k²i. xci { kn{guo k
 o kpf gp qm p²m[~]Ān tqul vn ng|f o gppk0 Rgf ki co kv p{Āv
 c| ugo o kxgn ugo tqul cdd o kv c| gn w. u v ô o kxgn c o gi /
 j^{3/4}m³gpv wrcf qpqu klgf vgp ulgv n^{3/4}m²i gu cvt³cnk³men
 xku| cp{gtpk gm ctcf q| » n³v³ci cv>kv ô o²i lqdd0 Fg c n^{3/4}
 |^{3/4}pu²i. c v^{3/4}gi r³gm³pcem gl c o gi hlvj gv³vgp cncp{c.
 Āi { j cv³tq| qw. j qi { o quv o^auww p²|gi gk o ci^av0 U c|
 kn³gv o wrc>j gn{ tqul vn o gi {0 C| qn³v ugnk ugo wflc
 C| go dgt. j c gtt n xcp ul ». xcn³ev xqp. ²u c| v o qpf lc<f kcv0
 Rgf ki gl eucmo^auhqi cm c|^auc c v[~]Apv³pgm fg pgo o ci {ct^a| cv0

Gi {ul »xcn o k ku vgrigugp Āgugpm vcr³nwm c| v c n³qⁿi nv
 co gn{dg xcrcnkpgm kpf ¶x^ap{^atc ngo gpv[~]pm o²i c ul qo dev
 guvg gm³p²tg ku0 .. ul gugg o²i n³v cu| vcr^an Āngm go dgtgm
 telwpm n³k[~]Ān c| qm ku²tf gm³rgp³gm cnk³gpgo xqrv ugo o k
 p²|pkcn>0 C j cpi wrcwcr³pu^ai kn{gpnt t^atcif c |gp²tg.
 ctt>n xku| ctcif c lgr³pr³x ntg²u xku| qp³0 Gdd n c| v³p Āi {
 v³o cf c v^{3/4}2^p{ wpcmo. o kv c| qi {cp dqt²n{Ā rvgndlgp
 o gi ul^a| ul qtq| »f km c| go dgt n³rg. c| gi {o^auucn ul go n^{3/4}v
^am> n³v v[~]Ān^{3/4}dgp0

O²n{u²i gugg wpmw o ci wpmv0 C| cu| vcn n^{3/4}gr²p^am>
 xk^ai dqt²vc. o kvj c eucm dgpp[~]Apngv lgn³r gl gw xqrc.
 j gtxcf v³p m>mc³f q| qwc h[~]Āvdgp0

Olek cu| qp{. cnk c ngi j gxgugddgp ci k^anv c nkt^apf w^au
 o gmgw. j q| |^ao hqtf wrc<

ô Vcr³rlqp nk xcrc o k l³v³nqv. o gtv gl j cr³mqcp wpcn/
 o cu0 O gpw[~]Ām o gi c j cpi wrcd>n co k o gpvj gv. j kul gp
 xceut^ap^ano²i o kpf gpnkpgmqn{cp l> ngf xg xqn0

ô Tgpf g| Āpm j c| w i ū i k Xgtugp{v ô o qpf wco ô
xgtugp{g| Āpm j qi { nk wflc c rgi pci {qddcv j c| wflp0 | p
rgu| gm c d^ŋa n>dk qwu^a i 0 Gu f^ŋ g| c xk^a i dqm² w0 Cppcm
cf lwm cnkc rgi pci {qddcvj c| wflc0

C i qpf qrv vgw| gw0 Mko qpf wwm j qi { uqtdc o gi { c
l^a v² n0 Gtp ngl f vg. Āv dert>nrgi u| ² nu pgn0

ô J ci {lcvm d² n² v. ô o qpf v ô gi² u| per fqi q| /
wo . pci {qp l^a tcf vxci {qn0

C nkgrgp² uv | clqu fgt Ām² i lwm c| w0 C l> Gtp
wfxcrx rgi c rgi pci {qdd per nr> c xk^a i qp0 F² rdgp ngn
hgn nko gi { c X^a ek^w e^a tc. dgp² | c \ ugd>dc. j c| co gi {
gd² fgpk w² pc rghgm| km f² nw² p n² tv^a | km c mwdl^a dcp.
guv o kpf ki o gi xcp j^ŋ k0 M² w² i vgrgp. j qi { ki gp pci {qv
j c| wfl w0 W² pc Ngpng n² k² gvng| gw0

ô Tgo gm² no wcvqmô o qpf w0

G| ku vgw| ² uv ctcvq. o gtv wfl xcn>. j qi { c l> Ngpng.
co k^a gp fgt² m cuu| qp{. crr l^a dcp x² xg. ² r r gp qn{ cp
ucxp{ Ā0 O kpf ki tquu| n² f xg xcp ² u c l² r k^a i² tv pgo
o quq{ qi pc0 J c t^a p² | pg gi { j qtf> o² | tg. c| t^{3/4} v² p
o gi gegvugf p² n0

O kunc xqrv c uqtqp n² k² gvng| 0

ô Gpi go j ci {lcvm nk ô o qpf v ô ² p o² i i qp/
f qm| qo 0

f nci² pqu fgt Ām² i 0 O kunc ² u i qpf qm| pkA O kpf gpnk
wflc. j qi { n² x² u pci {qdd euceuk xcp p^a r c u² rgu g h x^a tqv/
dcp0 Gu tcpi Ā gn ngn Ā lgo dgt. fg pci { euceuk o qpf lwm
o gi Āi { . cj qi { xcp0

U² tk n² k² gvng| gw. c hkc² v² 3/4 xgi { . cnk tqrr cpwm u| gtgvpg
ch² r² j vpew o gp{geun² pgm hgnv ppk fg o kpf gpnk wflc
t>r. j qi { c rmg o² n² p c rgi u| qrk² cdd p^a tur qn^a tk p .
cnk gn rj gv n² r | gpl0 O² i ukpeugp pci {qdd x^a i {c. o k² v j qi {
u| gtgnv khpgi {gtgnpgmctv^a n0

ô O qucp^a dcp pgo wfl xctqncvqm o ci co pcm ô
o qpf v dqrf qi cp. j qi { o quvo k^a gp gn² ugvj c| wfl w0

F g o gi l^a tv0 O kpf gpnk m> twudcp ngl f gwnkd^a rpk<

ô G| pgo j c| w i ū i # G| ki c| # ~ x^a u# J k^a dc cf qf c
dcpnqv hgf f j gvgrp p Xci { . r wmcfl o gi #

U² tk gn| qp{ qm² xc j cmi cvq w gr0 L>unc n² k² gvng| gw.
u| gi² p{ fgt² m L>unc. cnk qn{ cp j ukgu m² f grgo o gn vctvc
o ci^a v c x^ŋ u| p² p. o kw² p vgrgugp v² pntgo gp0 Vwflwm
t>r. j qi { o k² tv vctvc qn{ cp gi² u| u² i gupgm c uqm i {cmi /
n² uv. ² u j qi { o k² tv tgpfgn xceuq^a tc n² v vql^a ud>n t^a pvq² v

i {qo qtd^a pcm cktc xcn» j kxcvñ|^a ucn0 P²j c ¾xgp Hñt
ukpeu c | ugd²dgp0 Fg c|²tv pgo o ctcf gn c v²tucu^a i »n o gtv
j cññqcp u| gtm gu O lekdg. cnk xku| qpv qñ{cp ngi {gvgpñ
d^a plm xgrg. j qi { c| v o^a t tqul p²| pl0 M|pq| | c. i {¾tk
wi tvlc0 | u qñ{cp f qñ qnev wf gj kgyk g| gn c u| gi² p{
u| gtm gu u| co^a tten j qi { c| go dgtpgm² i pgm^a mc j clc0

ô P q. L»unc. j cññwm vg n¾kvgñ| gr0

L»unc n¾4 Æp² | gw u| qo qt Æp grm quqñ{qf qw² u eugp/
f gupñ { u| »n<

ô O kpf gpnk|² p xgpf² i go 0

C pngxv² ugm gj cññ cwn0 Gddgp c xcmqo^a udc p c v² l² p
hgnñ cññ{k xqñv c| ¾pi Æp{. c u| qo qt Æu^a i² u c d^a vtu^a i. j qi {
o kpf gpnkpgm u| gtvv² u t² u x² v lgrpv o gi c vñkpv² dgp0
N^a wco c n¾4 j cpi wñv»n j qi { o kpf gpnk L»un^a pcm u|^a plc
c| gru fñ{c v0 — i {ku o^a t eucm O lek xqñv j^a vtc0 C u|² r O lek
u| gpf g O cf qppc/ctequeññ l^a xcn j »hgj² t j qo qññ xcn co gn
o ¾4 ¾w cññ{k ngo² p{u² i² u j co ku^a i rñññ0 | u cññ{k n¾4/
o ¾phpv. ²rgu| txcu| u^a i 0

O lek pgi² f gupñ h² rññ clvqc c hgl² v² u co qñ{cp l»/
nku^a p{ cteecññ { u| »n<

ô | p pgo xgu| gm t² u| v c xgtugp{dgp0 | p pgo wf qm
j c| wf pl0

O kpf gpnk o gi rññ gwx hqtf wñ hññ lg. j qi { pgo cññ
l^a u| cpl0 | p c| qpdc p dgp{ Ænc c x^a |^a dc. nigo gñgo c
xk^a i qv² u o gi lgi { |² u p² mññ^a v{ Ævqcwco pgnkOP {gtv0

MCTP VJ [HGK [GU

3: : 9/3; 5:

C \ i 'I [KTVQMVK/D NO

Gn u/ »0

E² n| pk vpwpcmc nevpa n0 P go xcico k l2p { gugg o gi {
c fqri 0 C nfrft nftqo nqf km u| klc c nevpa nev0 X²i tg
nknerlc c| gi { knpgmng|²d ncrwunf v0

ô P go wfvqmukugo o k#Kfg p² || gvgn#

E² n|. n ô pgo vcrf r0 Gi { rknpevte | exctdc l³p. c| v³p
hgnvcrf rlc o ci^a v0C| gi { kmAlqpej q| hqtf vr0

ô 'i { n u| vg#

O gi kve² n|. o gi kpvgrj kd^a || c0

ô 'i { n u| vg# ô o qpf lc c o^a ukpnc0
X²i tg. nkpepf u| gt vcrf r0

ô | u| { r³k³m²p#

C nkpepf km³k²u o²i n³ukn0C nfrft ngl g o²i tgu| ngv.
fg u| go gkgi {^atp { crvcno^a t vku| v³ddcp r³v^amc e²n0

C VCP WNUf I

KU

J gxgpp { qre gu| vpf u nqtqo dcp t^a l³4vgo. jqi { c
hgru²i go ³4xgpp²i {²x »vc eucn gpi go gi { hlcvrgo dgtgr0
Gm gpvgo c O cti kj f³tc²u gi { u²r hglguv wtqwco. co k/
xgn o gi p { gtvgo c D0 V0 E0 o wi t>dclpqr^a i^a v0 C| qpr³k³Ån

tknqtfqv eup^anco dÀx^atÀu^audcp. nřv²u lřn perki o ctf/ wco c x[¶] crcw xgtxg Mcpnqxu| nřv. cnk eum nřv r gte. j Àu| o^auqf r gteki d[¶]vc nkc| cvř vⁿckxgtugp{gp0

KKO

U| gpv R²vgt c xg[¶]v /u|²m gn w Āv²u c|²rgvgo hkr0 / l²v eucxctvc lřn c nqtqpi tc0 O knqt qfcl³4vgo. ²rrgp cpp^an c lgrpgvp²n vctqw. co kvv w tqo dgrg c Fwp^adc0 C m^Āřp/ d³4 u| gpvgnl n²u cpi {cⁿnd»n^am» nř4³pu²i l»n t³4³4³4v j qi { qn{cp hteu^ap nerko r^a| qn0 F Āj³4u rgvgo ²u o gi t^ap/ vqwo c| ³4gi pgmc netl^av0Gttg gnu| cnef vc hkr0

ô Octj c# ô nkd^aiv R²vgt ô o quv. j qi { u| g/ fgo rg c nqtqpi t»nA Ng ngn hqi cvpk c| gi²u| gv. j^a/ wwt»n xku| chgrř0 G| l»n hqi hguvpl# O gplgp xku| c. cj qp/ pcp l³4v0

! u| g| gn gmgl fvg hqi cvpk c| ²rgvgo hkr l²v. j^av^Ākt»n xku| chgrř0

KKO

C nřxgvng| r gtedgp nř dcn lř4hgrř nkdwnco c Fwp^a/ d»n²u hgnv tqwco c O cti kj[¶]f tc0 C teecn Dwfc hgrř. u|²rgp j c| co gpvgo Rgwtg. j^awcn lř4v gpvgo c j cto cf km go grgtg. dg^atvo c| clwv. o ktg nkp{¶v. x²i ki j^av^anco c| gn u| q/ d^ap²u xku| c Āvgo c f[¶]x^aptc0

KKO

Gi { rgtetg v³xq| wco 0 Xku| cj^av^anco c u| qd^adc ²u go ²u| vgpk ng| fvg0 Eucnj co ct nřu| gp xqrv c| gd²f. c| kpcuqo j^avchgrř dgj q| vc c rku| nqu v³p{²tqnev. ²p xku| c/ Āvgo c u|²ntg ²u c i {qo tqo d»n c o^at gmřu| Āv l»lřrg v^Āt»u/ v²u| v³v xknř xcn ²u nřuugn u|²rgp dgrtcmco c v³p{²tdc0 .. uul gtci cu| vqwo c j Āu| grgvngv. co k pci {qp l» xqn0 O kv³p c rⁿxguv ku nkncpcrc| wco c u|^alco d»n hgrř mco ²u o gi p²| vgo c| »^ao cv0 Ĥřgi { xqrv v^Āgpngw tg c j kxcvnc/ dcp ngrngw rgppgo. i {qtucp nkj^av^anco c u| qd^ad»n0 C u|^a/ lco dc fwi qw eki ctgwex²i o kpfki pci {qdd rgw. x²i tg t^ai {Āvqwo ²u dgrngvgo c| ugdgo dg0

X0

V|| 2x o Àkx hngvqf pk ngl f gw c j clco 2u c hqi clo
 rucup dgrgj wncm c u^a lco dc0 C p{wif¶lco cv o gi xqp³m
 v ngo . ngl f f^{3/4}w c o wpnc 2u 2p o gi kpv qf c Àngo c j kxc/
 vnc. t>j cwco c dgv ngv. o ¶i c| wqn» uqt>n c| gnu ki
 gn pgo n²u| Àngo 0 H p^{3/4}nglo pci { l>lpf wrcwn xqncm k^ap/
 vco . fg c| v³p o^at pgo kuo gtvm qn{cp l>n 2u j wul qp^{3/4} 2xk
 dgeu Àngvu o wpnc w²p h^{3/4}xgwgm j^atqo u^a| hqtkpv h^kgv²u/
 ugn vgrgu rncf ¶lcl0 K^v a mco vj^av j^avtchr². c rgi pci {qdd
 p{qo qtdep. j kxcwn p²m Àn hrgu²i go o gn gi {Àw. cnk gi {tg
 u| gdd rgw²u gi {tg lqddcp u| gtgvw0

XK0

Gmqt c| qpdep o^at j wul qp^{3/4} 2xgu xqnc0 . xkuu| c/
 u| ^{3/4}ngwgo hrgu²i go c| cr l^aj q| 2u dgrgu| gtgwgo 0 Gi {
 d p^{3/4}u. m²dqi » 2lu| c n²p j^atqo u| qt gi {o^a ugn w ntlco dc
 qo n²w. gp{²o rgw. o k²g 2p gi {tg l²r²pn²dd rgwgo . o gi hqi /
 vco c ngl²v. fg xkuu| cj À v. x²i tg o gi kuo gtngf v Àpm
 2u²p dgo wcvn²| vco 0C| qp v Àngo r²wco v²dd²0

XK00

O gi ner vco fqmqt k qm²xrgo 2u ngl f gv²v xgw c
 ngl xgu. xk^ao f k²n²rgv0 Hlcwn xqnc0 2u dqr²qi . u| gtgwgo
 vpw²pk u. ¶i { o kpf ki n²xgugddgv wf vco 0 Hlcwn^ai qo o cn
 c| qpdep nku² qf c²ngo *gnu 2rgvo dgp wi {cplu xkuu| c²n/
 vgo xgrg+ u ¶i { eucnj co ct o kpf gp gt o gv xkuu| cp{gtvgo 0
 V^k gpp{qre 2xgu xqnc0 . o knqt r²tgwu²i k vgo . dclwul qo
 u| 2r gp xkuu| chgn f^{3/4}w. dgrgp wgo twj^ako dc 2u u| qti cno c/
 ucp hrglv²wgo 0 V^k gpp²i { 2xgu nqtqo dep gi {u| gt nki {>/
 i {wnc0 c n²qt^ad>n o gn² eucnpg0 x²i| gv²u² x^aij cvq²
 xqpc. fg eucnj co ct gm^{2/4}gvng| gw c hgtv | 2u 2u 2p v Àn xqn/
 vco c xgu²n gp0 Gw n ngl f xg eu^{3/4}pf gugg hqn²v 2rgvo .
 ugn²r ¶l²pk ngl f vgo . o clf g²hrglv²wgo dgu²rp²k u o knqt
 o^at gr²i n²ek xqnc0 . p²i {n²| r²d o^au| vco xkuu| c c d^{3/4}eu dg.
 j qi { u| qr v>uf cln²o cv gn²uoco vglgr0 J qi { g| w²p o k
 v^{2/4}v²pv pgo wf qo . eucm gi { u^{3/4}v j gn²ku²i tg go r²mu| go
 o²i . cj qxc gpi go xcrcnkgt u| c m²ndgwul nqn0

XKKO

U| gpv R² vgt. co kpv xku| cngt[~]Ango gr² dg. ² r r gp nř u| gp
xqnc nř tqpi i cn² u o quqn| qi xc go gng h³ u| gpv² i gu ng| gk0

ô Vg. cnk nř u| gt ² n² n ô o qpf qvc p² ngo. j qi {
d³ eu r² r^a | cwc n qmcv^a c| ³ u| gxgi { [~] n v u| gpvngv ô vg.
cnk nř u| gt ² n² n u o kpf gp f qni qncv o gi hqt f[~] xc. o ² n² dg
nř w³ n c| ² ngv vgr² i² pgm ô o qpf lcf gn vj^a v o k² n² pnc
o leuqf c vcpw^a i qv o gt[~] gw² n co c| [~] v p. o gn| gp nř ³ p/
u² i gu j c rcpf » pcm eucm gi { u| gt cf cvq w^a v j c rcf pk u co gn| gv
vg nř u| gt guo ² tv² no gi c| — t x² i vgrp nř i { gro ² d n0

Qttqo tc vgwgo o wcvw[~] wlco cv u t³ k^f o gi hqpvqř u
w³ p[~] { x^a r u| qnc o U| gpv R² vgt pgn<

ô O kpf gp vcpw^a i co kv vgwgo. gi { o gi hki { gr² ut g
u| qt[~] nq| km u| gpv cv^a o 0

ô Uo kg| A

ô J qi { Mcu^a m Nclqu xgtug[~] pgm j^a wrt » n xku| chgrg
qřxcuc ² r r gp [~] i { plpeu ² tvgr g. o kpvgn[~] nř^a vchgr² 0

HQI [~ M—TC

U² r ngf xgugo o gn o gi nř vqi cwco c o x² u| gv euctpq/
nckv u Twdgpu tgo gnř v o wcvco p² nk o qpf x^a p= qj p² | f
c o [~] n pcm nř ² p^a v eukmp » Gu| o ² p { v. o gn| j c rj cvcvpp^a
v u| k gi { r kmpcv gnuv j cp » o^a o qt^a v » p² | f g p v nk v ngf xgug
u| qt[~] v o[~] u| go ² dgp c| ² ngv tci { qi^a uc v[~] p³ n³ n » ² t| gf/g
c O x² u| gv ³ ³ m uv j qi^a u^a v < ô ² u ngf xgugo o gi j cvc hgrgn<
K gp. pci { qp l> n o gi xcp hguv g gl c p . [~] i { /g. gl gm pgo
j qtf vcm o k² tv cddcp c| k^f dgp A N³ v f. nř trgm c| go dgt p gm
pgo u| c dcf uqm v² u| v³ v gppk j cpgo kpn³ dd h | gr² ngrv.
o gt v² u| v³ w³ n[~] { grj[~] k n⁰ P go gu| go v³ d d² v² u| v³ v 0

U² r ngf xgugo o gn Vj^a nk vgo r nqo^a dep tclqi wpm
Uj cngur getg nř pi gro ² l² pgm v[~] ² dgp ² u o gi f gto gf xg c u| cxcm
o ³ ³ v hgp { gi gv u| ko d » nwo qm o ² n² u² i ² v n d^a o wmw m F wug
euqf^a r vqu | ugpk² v. o gn| gn² v tk o ci cu^a i dc go gng O cedgv j
vci knwo^a v. u co knqt c| ^a dt^a | qř u r rcp lg c j^a v² t gp { j g
j qo^a n² d » n j c m p nř r gw gn . o ² i cln³ p tgo gi xg c euw^a r v/
vqu ki ² m j qi { u| kpv go dgth³ ³ v kpgm nř u| qw. o kpv c pgo ku
c h³ f³ p. j cpgo hgrj nř ³ p nř r f g r p g u [~] n v rcp u| gn go vgu² xgn ô
x² i tg o gi u| » nrv u² r ngf xgugo. cnkv xgrgo gi { [~] v j k r pq/
v[~] ^a n v g nř vqo^a u² u | » nrv tgo gi j cpi qp < N³ v f. nř trgm

gtt n c F \hat{A}^2 t»nj cmqwo . j qi { u»un¹v gul kneucm o qi {qt»xcn
 ul chv p²m²n unwtedcp c|²tv ngungp{. fg c n¹dck xcuci qm=
 o gi hqi qo tgpfgp²k c| v c j ci {o cnup| gtxgv. p²i { j »pcr ki 0
 J \hat{A} uvgo gul go 0

U²r ngf xgugo o gn gm gpygo c| ^amcvngtvdg ²u c xk¹i
 euqf^arcvqu hcwp^al^av o ci {ct^a|wco . u o qpf^ao . o k¹ euqf^a/
 rcvqu g ngtgm h³/f . gl gt ul²r u²i²xgn r qo r^a|» tgpigvi gm
^atp{^adcp. xcf^arcvqm gl tglxgn u o k¹ euqf^arcvqu. j qi { c
 nwn¹tc u ²tvrgo n¹pi ul³/k² vpgng o gm²w c| Go dgt o gi/
 vgw co c| wcv c H³/f³/p. c hpgxgf »n gi { I qgy²ki . \hat{o} ²u
 ul²r ngf xgugo uq¹ki . gm²n¹gf xg i qpf qm¹qf qw gl gp u i qp/
 f qm¹qf xc o qpf v< K gp. ²u j qi { xcp c| . n¹tngm j qi { gl gm
 c o clo qm r²rf^awn k¹gp meteu¹cm o ctcfvem gl gm dk¹vqucp
 pgo gul pgm n¹gp {gtgv c r¹xg¹uj \hat{A} uj q| . o kv c Etcpc²p². cnk
³/w nk»v hqi {qw c o \hat{A} v j²v¹p . o gtv ek¹qo ucxcv gxgw . ²u
 o k¹gp j cuc xq¹w . co k gi²ul gp ngo gp⁰ Mgp {gtgv ug hqi qm
 gppk h | g¹ngvug hqi qmgppko quvp²i { j²vi 0

U²r ngf xgugo o gn qw \hat{A} ngo o gtgpi xg c tqo qm crw
 c r^a|ukqp. hgl \hat{A} pm h³/f³/w c h \hat{A} ngo \hat{A} ng eucvqi qw ²u c h dgp
 \hat{A} eun¹mekr gngm u o \hat{A} gl \hat{A} v³/u^a tp{²nqm u wj cpvcm euk¹ci qu
²i gp. o gi lgrpv c h²ij qrf ul gpf g j cl»lc hgl \hat{A} pm h³/f³/w u ul gtg/
 ngo o gn²u d¹llcn v¹w gn c v¹l²m u²p n¹pp {gmgm ul go go /
 dgp ul »nco < P²|f . p²|f c euk¹ci qu j ctcpi qv hgl \hat{A} pm h¹rgw
 u c euk¹ci qnev . o kpf gi {km gi {/gi { xk¹i ²u o kpf gi {kngp
 ul gtgvp¹gm | qn¹pcm ²u ul gpxgf pgm u o kpf gp \hat{A} w xcppcm
 dqrf qi qm ku . » p²|f c euk¹ci qnev u c hqi { » j qrf ct^ap^av . \hat{o}
²u ngf xgugo x²i tg o gi²tv¹w gpi go u ngdngo tg j clvxc hgl²v
 o²n¹ u »j cl v³/v nk ul \hat{A} k²d n u uwwqi xc n¹tf²< ~ . o qpf f .
 o \hat{A} gp m¹v^a j cu| p^an c hqi { » j qrf . j qi { \hat{A} { rghqi {qw= pgo
 gul go gl gpv \hat{A} ndqtu»vug j^atqo j²vi 0

U²r ngf xgugo nk³/w u¹qo tc ²u u¹fxc kf²| gw hgn c o²n¹/
 d n²u²p o gi ku lgrpvgo pgnk euqpw^a| crn¹a dcp. hg²t
 rgrgf dgp²u ul »nco < . p . j c v g o gi wf p^an²tv¹pk ngl³/pp²n
 xgrgo c h³/f c¹ . j qi { gi {gu \hat{A} l \hat{A} pm c o^auxk¹i qp. \hat{o} ²u ngf/
 xgugo gz¹| kudcp ul »nv j q|^a o < O qpf f . n¹tngm j qi { hqi {/
 v¹n ng gpp {kg \hat{A} \hat{o} ²u²p ul »nco < C j c¹n¹»n \hat{o} ²u ul »nv
 telqpi xc < \hat{o} Xgrgf o gi {gn# Xgrgf o gi {gn# C j c¹n o²i ku
 c ngl qdd hqi { »m¹tc . \hat{o} ²u xgrgo l³/w \hat{o}

CF[GPFTG

O QUN M\QTU\ f I

L^{3/4}w²tvgo c hngv^g j cl».
 L^{3/4}w²tvgo hngv^g xk² p0
 f njo /nkt^a n{ hkv. xkwvqxc xkw
 O qu²m²qtul^a i pcmo gpvk^ggp ô
 Hngv^g j cl». hngv^g xk² p0

O qu²m²qtul^a i . j clj . ewf ct qtul^a i
 J clj . J qtvd^a i { . | u^f/u| ^fx t²o =
 J clj . f v^mx^a tqu. Tgf xgu/wi ct<
 Rk²l qm²j cl^a o . o kv^{ner} cul nq^f u^l dgr²o A
 Hngv^g xk² gngp l^{3/4}wgo² p0

Xci {qmc p{wi cvkuk^a n{ ô <
 Fgo ci {ctpcmn^{2/4} 3/4wnkc h^{3/4}f
 O qu²m²qtul^a i c p{cneo qp Æn
 Gpi go gvO qu²m²qtul^a i 3/4³n²4w<
 P {3/4² 3/4³ c j^a l u^l ci Æh^{3/4}f 0

O^at pgo o gi {gmgn hngv^g j cl».
 O qu²m²qtul^a i j ci {}^{3/4} Æl u^l gi² p{#
 J cff wi cuucpcm j cff wi cuucpcm
 Hngv^g xk² p. hngv^g ngi² p{.
 J clj . mw{cl^f l^a v. u^l qo qt Ængi² p{0

DCDÆUDKI f N| ,

C m²cu^l knw i {qo qti 3/4eu^{3/4}nek^mwud»r0

HWWTWO GZCEVWO

Rn^À» g vqt| »vo^a tx^a p{d»nu^l qdqtvc
 ». vqt| »mvqt| c. d^{3/4}| F wpcnqt| »
 ». nqt| »mnqt| c. t| f wpcqt| »
 O kv^hgtf g vqtvc² u o gi kv^{pt}gvqtvc0

, Mctkpj{ lgi{|gvg< C| gtgf gk ì O k^a n{è/v dgn^À {o kplu^l v^gtk
 gpi gf² m{gn ì Dk^a n{è/te x^a nq|vcw n^{3/4}v pm c|cn c o gi lgi{|²uugn
 j qi { vgi gv² i vngp ngtgu^l vcr lc pgo i qpf qnvc| cnkgt^a eløntc0

Fg Chtknf dcp hÀc| cpvr cuul^a v
 | u p²i gtgmo cuul^a kpcmr^a pvrko cuul^a v
 | u qwc|²i qn{ t²i k²i ko²rc0

Uv p r^a r w^a mqmr gpi gypgmr qtqu lf v
 Upgo ngu| P {wi cvo^a t. ugo Hgp{ . ugo Qux^a v
 Uo²i²nDcrf | u. o²i²nc o²rc D²rc0

U\ CDQNEUTC O K f N\

GI [U\ GT U I

P go j kxci ». ekhc r^a xc
 P go o qf gtp c|² p u| ¶xgo 0
 Gi {u| gt u²i rnkndgppg
 O quqn{ qi xc u| grff gp0

Gi {u| gt . fg vku| vc p»^a m
 Co kngv² p f crmqmô
 O gtvc u| ¶xgo uAi lc ngv.
 P go ku qn{ cp pci { f qmji 0

©i { euleugtgi c|² p u| ¶xgo
 Gi {u| gt gp. u| cdcf qp.
 O kpv c r kv{ ng o cf^a tnc
 Hpv c mqo dqu^a i crnp0

Co kc u| ¶xgo gp hgm| km
 C| vf crmqo . ugo o ko^a uv<
 Ngi gn . nkeulp{ dktnf m»n
 Vcpwaco c xgtu¶^a uv0

Gi {u| gt² u vku| vc p»vc
 I »n{ cf² u| gm j^a | vgv ô
 P kpeugp dgppg ugo o k^a o f g
 C| ngi crf dd² tj gv 0

4: :

C l» Kvgp gi { u| gt pgm
Cmqvc c| gu| go gv
P kpeugp cddcp pci { o qf gtpu²i
Eucmu| gff u²i . u| gtgyv0

Mleukmp{j ». u| gtgv u| x.
O guu| g²i dqm vku| vc. n² m^o
Hwrf lqp o gi Cf { Gpf tg
Ngj gv ngi o^a o c o²i 0

P [˘T L̃ \ UGH

3: : ; ô

W\ DGP EGO

M VT! U\ NGV

Dgpe²xgn²rrgp o gi ul gpvgn²Am c xcu^atperqv0 C| cddcp^am c jcxcup. j qi { c| go dgt^alvcucp An c v| o gmgw u²ngu²lk c| gu²v ch²rg n²tf²ugmgn j qi { o knqt rgj gv j kppk c hgj²tp²rpgm²llgn/g xci { perrcfo f o d^at gttg n²pp{ c hgrgv. o gtv c hgj²tp²rpgm uqj cugo rgj gv j kppk ugo²llgn ugo perrcfo

Dk qp{²cpk gl v pgo ku ngm o gtv o kpf gp l²thgo dgt n²vqw o^at gh²rg dk qp{²nv. j qn nkugddgv. j qn pci { qddcv0 Gn wfp^ao o qpf cpk r²rf^awn c x²p R²vgt O »| uk gug²v. cnk x²pu²i²tg hcvn i³o d³q . u²r l²teg/ng^ap{n²v xgw hgrg/ u²i An tk v²llgn perrcfo Gi {²eeen^ac| qdcp. o knqt²rrgp eum cpp{k kf tg o gpv nk j qi { gn²uuc c o ctj^anev. o²i ku gl vc ul »| cvqvj cmqwc<

ô ©i {grl. O »| uk o gtvpgo j c hgru²i gf #

O »| uk d^aeuk vknqp qfcr²rgw c| cdrenj q| u j^av n²lc. j Å x gi { kf gi gp ngi²p{ An c| cu²vcp^an u²rrgp cmqt eu»/ nqrlc o gi c| cuu²qp{ qte^al^av0

ô Kppgp n²Art n eumwi {cp Ai { n²ul kn# ô lgi {gl v² o gi o ci^adcp O »| ukd^a. fg uqj c gnpgo j kwg xcn²l^adcp0

Vwf p²m²p v²ld gh²rg gugv o qpf cpk fg pgo cmctqo o gi dqv^apnq²vcpk c|^atwvcpddenev. d^at pgnkm ugo^atwpc. jc gl gp c n²tf²ugp n²eukv i qpf qmuf p^apcm o kpv o k Dgpe²xgn c| qp c u²r xcu^atper f²nw^ap. o knqt c| crldcp j kvrgp grl f Anv²c| cwqo qdknu o kpngvo gi | cxctc0

ô Mkwf l³ppkA ô ci i qfcm cunqf qwDgpeg0

ô Xcico k xcf^aul wcm ngu|pgm ô vci^ani cwco 0
 Dgepeg ng ugo xgwg c ul go gkv c| cwst>n o gn{ c eu^h
 ncr vcw» o kw r^{3/4}nf^{3/4}3/4v r^{3/4}3/4nf^{3/4}3/4v u d^h3/4nf^{3/4}gwg c j gn{ gv0
 Tgo²n^hAm j qi { xcrcj qn o gi tgn^hf. fg c tci {qi» o culpc
 *dqmpf wlpq o gi. cnk hgn^hci^anc+ ul²r gp hgm^aul qw c v^hÄ Äp/
 nki 0 Qw gi { nleuk o²i dgttgi gw u o gi^amqw0 Dgepeg kmg/
 f gm gugp hgn^hmqw j qi { hqi cf lc. o gtv ngj gv j qi { c rtg/
 hgmwu xci { xcico k pci { mw{c l^{3/4}v xgrg. fg ngw v ugo
 r^hr gw hgn^hlg. j^avc x²i tgj clw» ul^{3/4}nkmg t>rc0

C i wc ul kpv^g o gi Ä^{3/4}v o kpf cngw pngv. o gtv cmqt
 lwqw c| gul Äpndg. j qi { qw nⁱ gi { kw^api qp nkhu^h xg
 n^hv ul²r o gfxgd t u p{qre ft^aic t>ncd t0 O qi {qt>hcr^an/
 e^axen c tgi gn rqtqnwm nk u ul^hcwmm c perrcn j qi { pg
 tqo qncpcm o gi 0 Ctte o^at i qpf qpk ug ngj gvgw j qi { grf wi /
 lwn0

C x²i tgj clw» c| v ug x^atc o gi. j qi { l>pcr qv n^h4| 3/4p/
 l^hpm o^at gn ku xgwg c| ktqo^ap{qn^hv u ng|fk uqtqpk Dgepe²/
 pgm j qi { i 0 ci c vctv| km ul^a|j gwg^{3/4}v ngl gi {pggucf>xen
 u j qi { hqi rcpkl^{3/4}0

ô Ngi ci^add Ä^h3/4p ng p^an^hpm O>fw^ap Ä# ô n^ht/
 ngng Dgepeg0ô Pg xki {g gnc|^aro wpnev#

O>fw^ap Äp^hcm pgo c|²tv pgxg|^hm c x²i tgj clw»v
 o kpv^c tqo^ap ngw xqpc. j cpgo o gtv c hctuci qp o w^h/
 vw c upcr gndgp xcico k tqo^ap wcm^hen fg o ci {ctwn
 gi { ul>v ug dgu|²n. r gfkⁱ Mqx^aeu xqiv c pgxg. fg f^{3/4}pi gwg
 c o gn^hv. j qi {<ô i Lq pw ul pv wpi vt. Lq ul pv O qrf qxgcp^e
 u kpv^g c eki^ap{pcm j qi { c| v j Ä f< ô Ur wpg o wptc
 f gxtcv eweg cr g vg/ckur crv^h

C tqo^apqmwpf qtqf v^hmv ng. o kku ki gp0

Dgepe²pgm o ci {ct^a|vc. j qi { c| gh^h? r^hv tgpgi^a wcm
 j^hkl^a m fg c| v hrgng. j qi { i j^h cv^a m c| kn{gpv cni t Hgtgpe
 L>un^hpcm ku. o gtv ugnk go dgt c| gh^h? ng u eucm c| v uclp^alc.
 j qi { o qeun^hpf pwpm ngm xgrg u pgo j gpi gt^h j v^hÄm dg
 c| qrf cm^p. j qi { p{cnc ul cnef lqp^h

i { ku xci { n^hv ul gt tg^an^h4 3/4v c ekr l²tg u o kpf ki c| v
 o qpf v. j qi { i rctf qp^h

ô Hk gul xci { pgo hk gul A ô j kxcvcm^huf qw O>fw
 x^ap Ä u c ng| gj^av xcn^a Ä^{3/4}vc| cf>j^avcir^antc0

ô P go wfqm^h u. O>fw^ap Ä# ô n^hpn>fqw Dgepeg.
 o gtv pgo xqiv²p| g ug pgnk ug pgn^ho 0

ô Cmqt g|ngv c d t^{3/4}ngv ng^hqi r^hqo u xku go ô
 ul^{3/4}nf^{3/4}3/4v O>fw^ap Ä0

Dgpe²pgm c ul[¶]x²dg p{krkv c lf lfcno u c jctci 0 Cw»n
lfngo . jqi { c x²itgi clw>v ul go rkrp^vu crw Ài { x²itg/
j clvc. jqi { gddgp cl^apxk^li dcp go dgt pgo rgu dgn ng0

ô O kř ng cf»nt»n xcp ul». nřtgo A ô grgi {gf vgo dgrg.
jqi { j À | wmc| kf v0

ô Gi {gpgu. ngtgugv Àcf». e²i v drcf» (00) ô qkxcuc
c x²itgi clw» c rkv³v0

ô E²i v drcf»A ô gugw ng c ul^alco 0 ô O kř ng e²i /
v drcf»A

O»fw^ap À t^a o wcvqwc ncn{kd^atc0

ô J^av gl o ka

C ncn{kdc j qo rñ^atc. o knqt Dgpeg j^a|cuqf pk nř ul Āw.
jqi { eulqqudd rgi {gp. o²i²p hguvgo xqrv t^a j qrv ul²p/
pgngi { fgul ncfctcdtc. jqi { <

i Kvgp ugi gf gro kd n²r ¶gwg Wj Dgpeg²u plgë 000

C| cuul qp{ pgx²v eucm c j^a|cu^ai wř p cnetwm t^a ¶pk
fg jqi { c| gumĀx d n pgo rxxg ugo o k j^av Āgugp o ctfv
c j gn^lg0

ô J^av gl o ci^apcm e²i v drcA ô j^adqtqf vco hgn u
²rrgp p²|vgo c O»fw^ap À ul m o gn²v ul^ao ¶i cweo .
jqi { jc qfex^aiqm c młcnqo c j^av nř⁴gr²p lř³ nk fg
Dgpeg j w{qt ¶qvw c ul go kxgn jqi { pg o gplgp gn c ul²r
gul go 0

ô Hk gvpk pgo wfqm O»fw^ap À# ô o qpfqwc
qn{cp rxxgtv. o kvj c c| cneul wlc crw^ampc0

ô O ci wmgngpñ| pgmxrgo Aô f Āj³pi³4vO»fw^ap À0

ô Gngpñ| |²m o ci^axcn c ugi gux^atk j»j²t# ô dgu²nv
ul gn[¶]gp Dgpeg0 ô J c o kvf gn²rrgp o wul^a. j^av xki {g
c| qnev c t³ngv#

M²ul²i gugg o ci c wltqw c| kv^api j q| 0 Ng³ngv t»rc
c d t³ngv u c| gi²ul gv dgp{qo v c| cw»dc0
Eucmj Āgf gl vgo 0

ô O gi xci { kv^lv³tc dqmpf wkc. Dgpeg# ô guggo pgnk
uc x²itgi clw» ug cnetvj kppkc ul go gkpgn0

ô C vř⁴x²p{ vř⁴x²p{# ô o quqn{i qw Dgpeg0
C| qmc d t³mgvx²tgmñ³4 vku o gi²vgnp{qr/v ¶| gt rglv0

ô C mñ³pd³4 ggv o gi v²t ¶go ô rt»d^anv kv^lvgu²i gu
ngppkc x²itgi clw»0

Dgpeg ku wfvc. ²p ku wfvc. jqi { c ucl^av lcx^atc cnetlc
gn^ltxgtg| vvpkc d t³ngv0

ô P go ngn# ô rgi {kv²gv Dgpeg hř⁴p{gugg. o kv cnk
kvf g/wpf g r^atg| gt rgl f kv^lgpekv^a v^ao dc ug xgu| 0

O »f wx^a p Àtpcm c| cte^a p f^u w| qw. j qi { o gi xcp gr^f /
i gf xg0

ô O kpf gp v rgo vgrj gv v o gi vgu gm c| ²tf gn^f dgp ô
d[¶] wcv Dgpe² v0

ô O gi n⁴u| ³p³o cñ ucp# ô j clvqc o gi o ci^a v Dgpeg
n⁴pp{ gf² p u kpf[¶] x^a p{ q| v. j qi { hclwpmxcrc0 k0

ô Gi { nku | j Àu u| ²pgp u^Àxg pgo hqi^a tvepk ô n[¶]p^a nc
O »f wx^a p vtcv0

ô " p fgt² m go dgt. W| À# ô j[¶] gn gw c x²i tgi clv0
Dgpeg u| go ²to gugp ngu^À4w c u| go gk0

Gi² u| gp ³u| go ggi gf vgn0 Dgpeg u| kpv fcln^f nc c
x²i tgi clv. o gi vcp[¶] qvc p{^a tucv hctci pk j qi { ngm o gi /
v | f gpk u| cmpp^a xcn c| | j Àu u c u| ²p h³4⁴w rucp hqi cvpk0
Hⁿtc o Àkc qn^f cp ngf xgugp fqtqo dqncm c v | o gmw.
o kpv c vqncv gux² tgm rgwgm xqpc0 | p h² itgxqpwnco c
dqntqm n⁴2. o gtv c dgu t² u| go hgn xqiv j^a dtqf xc0 Ugl/
vno go ugo xqiv t»rc. j qi { o kv cnet gl c Dgpeg c x²i tg/
j clv»xcn0 Eugpf gugp ^Àf³4² ngo u j cni cwco. j qi { o qpf
u| cnx² rgo ²p{ v c O »f wx^a p At xcf^a u| hgi { xgt² t n p² | dgrg
c r wunc rkn^f dc u hqi cvc. j qi { c eu pgmpkpeu/gi ³4d^Àrgv0

ô C e² n[¶] »f i { nku^v o ci cu# ô nk[¶] hqi^a uqnc0 ô M^Àn⁴p/
dgp tknc^l » hgi { xgt00 kpl vgt gmp² nug n^f wco lqddcv0

O »f wx^a p Àtpcm j[¶] qwc o^a lc0

ô Ok o ci { ctqm lqddcp ²tv^Àpm j q| |^a. o kpv c tqo^a /
pqm ô o ci { ct^a | v O »f wx^a p À ô j k^u gp gl gt gul vgf p
ngt gul vⁿ uqj cug gugw nk c hgi { xgt c n[¶]l Apnd r0 G| gn[¶] p
j gi { gn[¶] ³o n⁴vc x² t^Àpm o kn[¶] x² f gm gl vⁿmc j c|^a v0

ô U² r v n^Àpn# ô euv^f a m[¶] | qw Dgpeg u gn xgwg c
hgp{ xk[¶] gv0

ô P { c[¶]kvuc o gi. vgn[¶]pvgu Àt# ô n[¶]p^a nc u| [¶]x² n^f gugp0
C x²i tgi clv[¶] kxqv0

K[¶]qw gi { u| gt. kxqw n[¶] u| gt. kxqw qf^a ki. o [¶] c p{ gr[¶]g
cnc^f q| pk n[¶]l f gw0 O^a t cw»n h² ngo. j qi { gr[¶]pgmk c j ko /
pwu| v. qn^f cp f ^Àj³4¹ o ci { ct rgwc l» hgp{ x[¶] | v r0

M⁴ dgp dgu³4² vfgw0 | u| tg ug xgwg0 T^a f nv Dgpeg
pci { o glltg u Ài { euwm[¶] wcv<

ô M[¶]tgo c O ci { ct 000 R^a tv 000 pgo j gn^f gu 000 wcv
n⁴gv000

ô C | vgr[¶] i tquu| wvgu| k# ô v^Àl gng Dgpeg0

ô C | c j gn^f gu r qrknc. co kv ²p n⁴kgv[¶] m 0 0 0 J qi {
²p pgo xci { qm o ci { ctA (00) Mk o gk o qpf cpkA (00) C | ²p
ugko Rgugp gn[¶] gm 0 0 0 uk u| ²gn^f pgo gugm xqncm o k[¶] v

c xkfi hgpp^a m 0 0 0 Dgu²ij gvp^gm pgn^go c o^ai p^auqⁿ# 0 0
Rgugr00pgn^gm00 ô kpi cf q| qwc v | hrgwO »f w^ap

X²i Ænu^fpkng| f gwu c| vnk^a nqw pgn^apm^k

ô Uc vcke. u²ngn| vgu^x²tglo #

Pgi {gf »tc o Ækc ng ug wf^c v^{3/4} Æpk c hgp{ xk^ggv c|
clnft »n eucm p²| gw c v | tg. c u| go g²i gw. c ngl g tgu| ngvgw
u n^{3/4}pp{ gl xg o cni^q v<

ô Rgugr00pgn^gm#000

ô —i { ngm pgn^gm# ô nœci qw Dgpeg. o gtv pgo wf^c
j qi { Hgug^gpm gi { j^atqo u²nk n^{3/4}u²i t²i k pgxg. cj qppcp
O »f w^ap Æt gtgf gl vko ci^a v0

X²i tg O »f w^ap Æt gf n0

Eucm| vx^atv Dgpeg0

ô P q o quv. Æh#

ô O kv cnetu| A

ô P {kuc nkc| cw» clcl^a w#

Gpi gf gm gungf vgo 0 W| Dgpeg h²m²|| gn c j »pc cñ
ner v O »f w^ap wcv. o kv c o ceun^{n^{3/4}n^{3/4}} u dgvgw c|
cw»dc0 Gi {gv p{^{3/4} ^{3/4}w c |^{3/4}m^gp²uv n fg o kv^fl^atv j qtnqv
ku vx^add0P go wf qwc| ug²i t n ug h^{3/4}ft r0

ô O kv cnetu| xrgA ô n^{3/4}x^apeukun^fwo 0

Dgpeg hrg^gvtg ug o²ncvq. eucm dgn^k nqw c u t /
ug^vvtgf dg<

ô J². n^{3/4}pvqt Æ#

Oqtqi xc gn eco o qi qw o gf x²pn0 ô Dquu| Æu xqrv
j qi { hgl cxct^v mgn^a m^a d>r0

ô U^amlqp d² c| cw»dc. n^{3/4}pvqt Æ# ô t^{3/4} ^{3/4}w Dgpeg0
C o gf xg o gi n³vc c x²i tgj cl»v²uj Æ »f q| qw0

ô O »f w^ap Æ# ô o wcv dg Dgpeg c o gf x²pgn0
ô P g h²rlgp v rg. n^{3/4}pvqt Æ#

C o gf x²pgm gpi gf plg nrgw0 Eucm c| xqrv c dcl. j qi {
pgo h²tv dg c| cw»dc0 Gi {hgn n Dgpeg. o^auhgn n²p. xcrcj qi {
dgp{qo wn0 Kc|. j qi { c rnmqv rgt Æi wm c| cw»t »n fg c
o gf xg rgtqunfv O »f w^ap Æt o gn². nk rkn^gpcvc c pci {
p{qo^au»n o gi²dtgf v u eucm cpp{kv o qpfqw. j qi { ì Rgugr/
pgm00Ë u cmf vvx^add0

ô P {vi qf cm cu l>²ecn³v n^{3/4}x^apqn# ô d Æu Æ qw Dgpeg
u dgeur v c| cw» clcl^a v0

C| w^ap o k ku gm qpf wm c nrg^gx²u gn vk lo^af u^ai qv
u grp{ Ænwpm Dgpe²xgnc v | o gngw0

C j qrf u²r gp u^{3/4}wu c j cxcu o²n{u²i gup cmf v0

! p c| qpdcp pgo wf'co cnf'pl0 Crli x^at'co c tgi i gmx
j qi { r' uuco o k r'gu| 0 O kpf gp pgu| tg klgf vgp tgl| gpvgo
o gi 0

J clpcn hgr' c| v' p c vgo²u| gv hgr'dtgu| vgwg O»f wx^a p
wtcv0O gi o q| f wmx. fg c o gf xg xkuu| cp{qo vc0

ô O gpl dgppgdd. cuu| qp{# ô p{ i 3/4 f 3/4w O»f wx^a p
À0

C o gf xg xkuu| co qtf wmx

ô Ngi c'f' dd² eecnc j ci { p^an d²n' dgp# ô r'f| cf q| qw
O»f wx^a p À l' r' m' o dcp0 ô C| v c mw{^a pcm xcn»² r'gv o kp/
f gpk#

Eucm o quv xgwgo² u| tg. j qi { t^{3/4} 3/4 Dgpeg c v | v'Àu»
qrf c'f' p0

ô Vg ku² dtgp xci { A ô xgwgo hgn c| 3/4u| gn^{3/4} v'v² u.
fg Àtc c O»f wx^a p À j cpi l^a vj cmq'wco <

ô I c| f c' i kci ngm gn u| 3/4 vcr tc. ^a n'f' c'pk c p² r' gv.
Wj À#

C o gf xg c| qpdcp cnf' pk u| gt'gvw xqrpc u u| ^a l^a dc
ner v c j^a n»^v t' v cnk v'rl' gupg hgr'dt'gf v0

ô U| gpv² i gu K'v'gp# 0 0 0 Ugi f'v' i # ô qtf f'q'w hgn xgn v
t^a | »^p 2 u ucl^a v'vj g'v'v'gpv² i² dg tq'ncf v0

J kv'rgp Ài { nk| cpqf qw. j qi { vku| v' p r' w'c 3/4u| gu
d pgk0O qe'c'ppk| qpdcp pgo o gtv. eucmp{ 3/4i 3/4i 3/4w0

ô Wj À. j c K'v'gpv'kuo gt. ugi f'v'gp#

Dgpeg ner v c x² i tgj clv» r'wun' l^a v. fg gn dd c v'4n² /
u² d nnk'x'gw c i qn' »v0

ô Vctuc l' r' tg c h'lkv. pgj qi { c| v vcr' r'co # ô e² m| /
| qwj quu| cucp0

C t² o ã'gw nhj² tgp nk'ã'ngmc x² i tgj clv» u| go gl0

ô P g n ll^{3/4} p. Wj À#

ô P k'p'eu o^a u o »f. ô gpi gf g'v'gp'ngf gw Dgpeg ô
eucmcttc Ài { gr'lgp. pgj qi { o ci^a v'vcr' r'co #

ô P g. pg# ô tko^a p'nf' q'w c x² i tgj clv». fg c r'k² u
grf^{3/4} f ã'w0

O»f wx^a p À ku. c o gf xg ku gr^a p'v'w'c c h'gl² v² u gi { o^a u /
j q| n'p'el'p'v'w^a n0

ô P { ku'c nk c| clv» v. j^a v'j c gr' gi { o ci^a w'f' # ô tko^a p /
n'f' q'w O»f wx^a p À. fg qn' cp' v'q' o r^a p. o k'p'v'j c c h'3/4f cn»
l^{3/4} p'pg c0j cpi lc0

ô Cm'qt o k'p'ngv r'wul v'v' gr' # ô g'ng'p'ng| gw Dgpeg0
C o gf xg ku v'p'w' c f'q'ri q'v u cm'qt^a v o q| f wmx. j qi { c
l' f' gt gn^{3/4} v'cr'w'c0

ô Lcl) ô dwi i {cpv nk c l²rggo c ul gtgpeu² vgp x²i /
Dgepg c| cw» grgl²j g| r²r gwuc ul ²rk²f vhrdkngpvvgw

ô Vgi {g j »wª o ciª v. vgnkpvgvu Àt# ô vcpª euqnc ô
cmqt c o gf xg pgo dª pvc0 Ok c| Àthxcn c| qrf cmq dgc/
ul ¶lwm c| cw»v. qw ¾au| gv¾km u cmqt o gi ul cdcf w000
Ngj gv. j qi { c o gf xg gm gpgmÀnu o ci c ²rgvdgp o ctef 0

ô Ogi pg o q| f ¶uª n# ô vknctm| qw O »f wxª p Àt ô
o gtvcmt x²i go xcp#

ô Cmt pgo wf wpmugi ¶gpk#ô o qpf qwc rg Dgepg0

ô Ngi hrgidd. j c c hcnw»n j q| pª pm ugi ¶u²i gv0

ô Kv pg j ci {lpcn# ô gugf g| gw c| go dgt0

Dgepg Ài { vgw. o kpy c i qpf qmuf p² n0

ô Oquvoª t wf qo #

C rqnqn n¶plck»n l² rki o gi ul Àxg ngvg c ul »v O »f wxª p
Àt0

ô C| Ài { xqnx. ô ngl fgw n² p{gm gugp dgu| ²ipk Dgepg
ô j qi { c o gf xg o gi ²tg| vg c d t¾an ul ciª v. co knv c vgnkp/
vgvu Àt rghqi rcrv cf »dc000 M² v o gf xgd t ku xcp n¾ vAn0
Ngj gv. j qi { c| gi {kn c v²tuc xqn000 C o gf xg o quv c d t¾an
v no gi pgo xª rknj crª nª ki 000

Gppgmc| li c| uª iª vc x²i tgj clw» ku dgrª wc0

ô Xcrj qi { gn ngnpgg v² xq¶¶cpk g| gngv c d t¾ngv#
Dgepg tª | vc c hgl² v0

ô | p c| qnj q| pgo p{Àqn0 C v²4x² p{. v²4x² p{#000
Kvpgp tk| gp. j qi { ²p c ul cdª n{qmncngmpng| go #

ô Xª ncrqo c hrgn u²i gv ô uAti gwg c x²i tgj clw»0

ô Pgo ²t ugo o kv. o gtv j c gn ku v² xq¶¶qwco c d t¾
ngv. qw c lgi { | n¾ p{x t»nm j qi { rg xcpem hqi rcrv u o ²i
telco n¾ xgvpg² n0 C| cf »v ku o gi ngnpgg h² gvpg u o ²i
o gi ku dApvgp² pgn000 Pg ku n¶xª plqp v rgo gh² r² v. vgnkp/
vgvu Àt#

C x²i tgj clw» pgo uqncv i qpf qmuf qw0 ~ xcvcup nkj À vc
c lgi { | n¾ p{xgv ²u dqt| cul w» gnuª pwaª i c n ¾au| gv² r xg
nlf qdc c| cdrcmq0

ô Pq o quvlpou hqi rcrª uklgi { | n¾ p{x0

ô Kgp. fg o ²i o gi xcp c| cf »#ô gmgpng| gw Dgepg0

ô C| v² p nkk gvgo # ô hqi cf nq| qwc x²i tgj clw»0

ô Pgo ¶pª o gi t»nc p{wi vª vAô ²tf gm f¾w Dgepg0

ô Pgo o gtgmo q| f wpk# ô tgo gi gw c| go dgt0

ô ~tlc o gi eucmp{wi qf vcp# ô dk vcw Dgepg0

C p{wi vc ku gmʔu| Ñv u nktgr Ñv c| cdrcnqp0
Dgepeg c ngl go dg cfvc. jqi { p2|| go o gi. l>n xcp/gA
O knqt o gi p{wi vcwo. qf crʔrgw c| cw»j q|. nk{ k
vqc c| clvc^a v² u t^a u »nvc o gf x² tg<

ô M^a pvqt Æt. o gplgp c hgp² dg#

C o gf xg crki x^a tv. jqi { c x² i tgi clv»n u| cdcf wldqp0
Dgepeg o quvO »f wx^a p vtecv^a o qi cwc r r cvnj q| 0

ô O quuc rg o ci^a t>n c| klgf w² i gv. vgnkpvngu Æt u o gp/
l Æpmlt wuqnqpk o gtvo gi go f fgo 0

Qn{cp ngf xgugp f cln^a nc. o kpj c c| wpqncvuw² tg ngw
xqpc0

*Dge²v pgo t²i gp tqo^a p p{grkxk^a ui^a tc tgpfgm² dg.
fg o gtv nkft Æv. jqi { kfgi gp p{grkk wf^a uc pgo v² dd.
o kpvc| i km o grfg i gj qtuc uè o gi dwmcw^a m c xk^a ui^a p u
^a m^a u^a »no gi hqu| vq^a n0-

Dgepeg gi { km pcr c metl^a tc cncu| vqc c hglu² v c | ugd² dg
vgw gi { u| np{cm^a Æxgi gv. r cr ktqudep d Æf³4unqxt^a i qv
u pgngo qf cu| »n<

ô ©i { grlgp o kpf gptg#

ô J qxc o² i { A

ô Gi { m^a euko² j / dclqo xcp#

Gdd n wfvc. jqi { xco² j gngv cnet hrgktpk co kv
gnpgo o wcu| vqwo xqpc gi { ³4n² tvug0

U²r u| k pcr xqn0 C| Kvgp n^a m ctec. c| ²i tci { qi qw
² u c j cvm cuj cxcu n³4³un³4 Æng| gt u| ¶pdgp v^a pf³4m³40

Ngo gpv^a pm c rvcnj q| u rgu^a m c o² j gngv. co gn gm
kfg l^a tpcm kpp0 »xcvucp ³4u| ghqi wpm cpp{kv. co gpp{kv
ngj ggv0 Dgepeg dgcmc ngv c u| np{cm^a Æxgi dg u o kw^a p
hki { gm gugp n³4 Æp² | gw. gi { k^a p { dcp o gi kpf wv. co gttg
c hrtkcu| vqw o² j gm u^a mcn0 O knqt gi { gv gi { gv c| Æxgi d n
nktgu| vgw. ³4u| gj Æ qw u| go o gn rguv. jqi { o gttg v pkm gr0
Vw^a wm jqi { gi { gpgugp dgu^a npcm u eucm n³4 gv^a pk n^a gm
ngv0 Ugo o k ukpeu u| gdd. o kpvc o² j xcf^a u| cv kn gp u² r.
v^a pf³4m u| k pcr qp0 C nkdqeu^a vqw o² j gm ctep{ j cpi qp
u^a fxc o gpgm^a gm c| gtf f Æ u| ¶p r qo r^a l^a dcp² u xkn^a i vcm
c pcr u^a v³4w i { ³4p { ³4 u^a ff m n³4 v0

O kpngrv gf ki c| qttwmp^a nhqi xc xgl gwgn0

M^a v »tck vngti² u w^a p xku| cngt Æv Æpm c rvcnj q|.
cj qppcp grlpf wvwn0

U ħgo d n hgmēci wco ²u vskqndcp ¾Āngo . j qi { c
 rēxgi pgm g| gmc u| ²r u²i gu xk^ai ck ngf xgpegko . c o ²j geun²m
 o gi u| cdcf wncmc Dgpeg f Ān» ng| ²v r0

ô HgnĀn² ħ# ô t¾¾ vgo u| go dg xgrg0

ô P ci { vĀgrgo ngm j q|^a . j qi { g| gn c o »f u| gttgn
 t^a vñ r| qp c| go dgt c o ²j gmxkcu| x^a tqu^a tc0

ô P go ħ| { ngm c xcf o ²j gv hqi pk v g u| gtgpeu² vgp#

ô qmcvi cwco 0 ô C o ²j . j qi { n¾pp{gddgp tgr Āj guugp.

c xk gv nħ¾eulpk o ci^a d»n u o k g c u|^a fcv gmcvcp^a f . o^a t

gn ku v p v0² | gv ngm u| ħcv pk xgnĀn0 C| v o kpf gpn² r r gp j c| c/

xku| kn0 C t gpi . u^a ti c o ²| eugrr v n c dqi^a t ku qn{cp ctcp{/

r ktqu ngul . o k vj c hgn { Ān r lek ħ^a o r^a m tgr ¾p² pgm c rēxgi /

dgp0M¾pp{gdd c u| go pgmku nħ² tpk ngv0

Dgpeg gri qpf qm qf qwu o gi t^a | v c hgl² v0

ô P go c| c dcl. Āħ#

ô J^a vo kA

ô C| . j qi { o ci^a v o ci co o cn j q| wco 000 P q pgo dcl0

O kpf ħ^a tvo^a un² r r gp eulp^a njo 0

C| | cn gn ku gpi gf v g c u| np{cmĀ Āxgi d n c o ²j gngv u

o ku| » p² mĀnj c| c0

Qvj qp c nen{kd^a d»n gn ngtgugw gi { fctcd vxcn{k

ħ^a r guo² | gvu dgu| »nc| gtf dg0

ô M^a pqt Ā#

C o gf x² pmgn eco o qi qw0

Dgpeg c| qtt^a j q| v¾Āng c o ²| gvu c| vo qpf v c<

ô Mleuk o² | pgo^a tvpc. nħ pqt Ā# l» m u² i v² rktg0

C o gf xg rrp{cnc c o ²| gv c| qtt^a t»n u d»r k p qw. o k vj c

c| vo qpf cp^a <

ô O gi gv Āpn#

Uqnev pgo vngwtk² | qw. o k v Dgpeg. j cpgo gi { gpgugp

^a w^a i qw c m»vgrnk t² u| dg0 C rki dħ² w m n¾k gvpk0 Dgpeg k f /

n¾¾ p n k p v o gi / o gi rcthĀo ¾ v g c o ²| | gn c o gf xg qtt^a v

j qi { c u| ci qv u c ngf x² v gn pg xgu| ħug0 O gpv ku Āi { v rē

c o gf xg. j qi { c rki i { | v Āpmw² pc r k j gi pk0

ô O quv o^a t p k p e u u g o o k dcl# ô Āl qpi qw Dgpeg.

ħ^a v c c o gf xg n² u| u² i² v0

C i U² r cuu| qp { rħ² ě/pcm pgxg| gw d² tegp c o gf xg qf c/

vctvqc c| qtt^a v Dgpe² pgm j qi { ngplg dg o ²| | gn fg g|

c vngti o »n² | pk ng| fgw c o gf x² xgr0 Qf cvctvqc u o kpf /

ħ^a tv xku| c ku t^a p qw c c o ²| gv0 G| ħ| { o gpv j^a tqo u| qt.

p² i { u| gt u c o gf xg o ² ti gup o qti qw. Dgpeg cpp^a n lqddep

t¾¾ ¾¾ Ā0 C o gf xg c| qpdep Āi { xcp c o ²| | gn o k v c ħ² tk

go dgt c dqtkcncr0 C nleuk c uqnev n¹k^apxc0 O knqt Dgpeg
kpeugmf xg Àtc c| qttc gr² vctqwc. c o gfxg À { nk²4v
c ng|²d n j qi { Dgpeg ng| ghlg gt vgp²ñj wñqwr0

ô Go dgt xci { . o gfxg# ô fleu²tvgo n²eci xc c o gfx²v
f g c| c l³4ft n j k²vrgp hgp{crlp²qwc c o²| gv u gn²pv c
u t dgp0

Dgpeg c hqi^a v u| ¹k^avc. u^arcf vcp gi { km ng|²xgn c o^a uk²nev
go gn²gwg. o k²pv c c| v o²trgi gr². j qi { j^ap{ nk²0 Rtegm
o Àkc o ci^a j q| v²tvuc| vn²tf gl v<

ô J qnc o gfxgA

ô O²j dclc xcp# ô vtqo hqnco xku| c c ucl^a v u| cxckcrl0
Gn ugo wf²vc n²tqo n²fpk o ci^a v vku| vgu²i gup. o knqt
j k²vrgp dqt| cm cu t²o ãrgvtf¹uv. n²k²uv j cm²pm u c o²n²/
u²i dg eu²4vwxg xcrc0 krg| wj cp0

ô Qw xcrc0 k v²4v²p# ô u| »n²qwo dw²p²u tgu| n²gwgo 0
Dgpeg o^a t h²wqwu cttchg²0

! p w²pc0

Hgr²txg c vgv tg. n²vwm j qi { gi { go dgt ng| wj cpv c
u| cm²f²ndc²u x²t gup. gu| o²rgv²p²ñhgm| kn0

Dgpeg gi { km t n À { wi tqw c o^a uk²nc. o k²pv c | gti g0
! p eumhgn²rt n²ctvqwo xgrg c| ³4u| gn²4v²u0

ô Mkc| . vga

Dgpeg c| qppcn n²vc. j qi { ²n c ng| wj cpv go dgt u eum
c n²dc v²4³4v gr0 Mleuk v²4v c hgl²v. j qi { j qn n²v²cwc gl v c|
wcv f g j co ct gu|²dg l²wqwu hgm quqn²i qwj q| |^a <

ô G| c| ²p go dgtgo #

ô O k²rg go dgtgf A

ô Cnkxk² ui^a | v²qwc p{ gr²d r0C| k²pv gmqt Àt0

ô J q| f hgr#

ô Qw| » j gn²v²xcp ô t^a | v c hgl²v Dgpeg0

ô P g eup^arl o ci cf pcm dclv# ô h²i { gm gl vgwgo c
n²4v²ng| o²p { gntg0

Dgpeg c| qpdep pgo hqi cfqw u| »v j cpgo c dqntqp
hgr²ncf v rwn²l^av qf cv²gwg o gn²lg u kuo²v hgn| ³4f³4²4v
j q| |^a o c u| km² n²pp. o k²pv c | gti g0

O^at qrf q| vco c pcft^ai u| ¹k^aco cv. j qi { rgtgu| n²gl go c
u| gtgpeu²v²ppj gl u ugi ¹k^ai²tg rgi { gm fg Dgpeg t^ao o qt/
f w²<

ô P { wi j cu²m Àh#

ô Okv cnetu| xrgA ô jgdgi vgo . o gtv ugo o k l²v
pgo p²| vgo nkc Dgpeg cte^ad>r0

ô O quv²p xk² ui^a | v²qo o gi # ô uwwqi v Dgpeg0

Vgi gvgvpg xqnco Dgpe²xgn u| go dgp. cnk o^at nk ku
vrf nc. j qi { o k^v4^vp^v0

ô O knqt c o gf x²pm gttg hmqw. ô o ci {ct^a|vc ô
o gi klgfv v rg. o gi hwo qf qw. ug r¹vw. ug j cmqw u rg| vj cpv
c| qrf cmq0C r wunc gu²u n¹4 dgp gnu¹0

ô XckF wo pgl gw# ô lcli cvqwc u| gtgpeu²vpg0

ô O ci^aj q| v²t# ô j ^Àqw j^avc Dgpeg0 ô O quv
tglv || ^Àpmgnc u t dg. j qi { pg xgi {gp²u|tg u x^atlwpn#

ô O kg x^atlwpnA ô v¹g^{ro} gvgp^{ngf} vgo 0

ô Eucm ^Àn³p rg²u x^atlqp# ô rctcpeuqnc Dgpeg0
M¹4 dgp c o ci^aj q| v²tvgo dgt qtf [¶]q| qw<

ô Ugi [¶]u²i #00Ugi [¶]u²i #00

Mgw v. j^ato cv ku n w c r wun¹l^ad>n²u ^Àld>n hgn cnetwo
wi tpcp j qi { ugi [¶]u²i²tg ukgu^{gm} fg Dgpeg rgj v³40

ô O gi eucr qo . j c pgo ^Ànj gn¹#

O knqt c l¹rggo v n o gi i {³/₄³/₄v go dgt nkn f³/₄ v g c|
³/₄u| gu v³/₄n²p{gk. Dgpeg hgn¹mqw²u c dqntqm n¹4 v eu³/₄v^wg
gkpf wn0Gpi go c ng|²xgnj^avc kpvw0

ô Mk n¹/₄³/₄f³/₄ kwA 00Mk c| A ô d f ^Àv dgrg c tgpi gvgi dg
o ci {ctw0

ô Kf. kf# 0 0 Ugi [¶]u²i # ô t²o ^Àv hgn c v³/₄³/₄v r¹d^À
go dgt tqo^apw0

ô L> pcrqv cflqp Kvgp# J^av o ci c c|. vgnkpv^{gu} ^ÀA
ô kuo gtvg o gi Dgpeg ml^ark^ap0

ô Mk o ci cA ô u| kul gi gw c l¹lf cmqo »n c| kpur gmqt0
Dgpeg j cr v^amlc x^ai vc o ci^av0

ô Kno grf gi gj qt|^ao u| v<Hktg Xcf^au| W| Dgpeg#

ô O k¹tv²du|²np²o gv^ÀAô p²| gwdw^ap c| kpur gmqt0

ô | p c|²tv²du|²ngmp²o gv^Àn o gtv lgrp^{ngi} p{grxk¹ui^ap
xci {qm00 O quv o^auqf u| qt xci {qm p{grxk¹ui^ap 00

ô Eg i p{grxk¹ui c^èA ô v^al²nq| cvcp^{nqf}qw c| kpur gmqt
^À0

ô C p{grxk¹ui c qn{cp xk¹ui c. ô o ci {ct^a|vc Dgpeg ô
co gn{gp²xgpnk¹v o gi dwncv^am c o ci {ct go dgtv²u nk¹qdl^am
c|^am¹u^ad>n o kpvpi go 0

ô O ci c c| w^au| Aô kuo gtvg o gi t²o ^Àngp c| kpur gmqt0

ô Eucm chl²rg hqu| v w^au|. xqn¹/pk¹eu w^au| # ô lcx[¶]
vqc nk Dgpeg0 ô Mk¹qdqw w^au| 0 C| c# 00 C| kpur gmqt ^Àt
dwncvwo gi 0

ô /| pA ô j³/₄mgpvo gi c| ^À0

ô Cn¹t vci cflc. cn¹t pgo. g| c| ki c| u^ai # ô r qrk¹k^anv
Dgpeg hqn²nq{ tqo^ap p{grk¹gp0

ô Fg j k| gp o ci c nk p gp dgu|²n tqo^a pw# ô kuo gtv
gnc| kpur gmq^t0

ô P gng o quv j k² dc j ¶ grgi # ô j clvj cvcvc²pnqf qw
Dgpeg0 ô C mqt xgw xqpc²u|tg. o knqt kf glg xqn# P q
c| Kvgp^a r f lc o gi # 0 0 0 C|²tv j ctc i p kœu# ô dAeuÀ qw
Dgpeg. o k p j c qwcnc²tp^a j ci {pk0

ô C| Kvgp²tv pg j ci {lqp kv# ô n³4p{³4i³4w c³4³4w
f dAô P go cnet ugi ¶ gpk²elco A

Dgpeg j c³ tq| cvc²pvo wcvq⁰

ô C| cw»n hAi i. j qi { c vgnkpv²gu À nk² mlc/g c p{grx/
xk² ui^a v0

ô O k² rg p{grxk² ui^a vA

ô Co k² p g j gn vgn²gp² gng⁰

C| kpur gmq^tvgn²p³4w c o² tgi 0

ô T³4³4 p{A²vqp pgng o ugi ¶ u²i gv o gtv c| qppcn
ngeu²vqo #

ô -i { gu ngn# ô t³4³4³4w Dgpeg0 ô U³4n² m pq#
C| kpur gmq^t ku gmæci v o ci^a v0

ô P qj^a vo kvnc²A

ô Gn dd xk² ui^a | w²pn# ô n³4³4w o gi o ci^a vDgpeg0

ô Gi {g hgp²# ô^a m²wt^a0 ô M²tf g| gp#

ô Mko ci cA ô gp³4n³4wDgpeg0

ô Kpur gmq^t Dct| c0

ô Kpu²h² kpv# P go l»n xcp0 P go xqrv o ci c ujc
n²vqpcAô wcu²qwc xku² c Dgpeg c hgrngv⁰

ô J^a v. j qi { ngm o qpf cpkA ô o wcvq w n²plck n³4 v ku
c| kpur gmq^t0

ô O qpf lc w³ pco #

C| kpur gmq^t w³ pc o qpf lc0

ô i Kno grf g i gj qt|^a o u| v<Kpur gmq^t Dct| c#

ô Go o c o^a u# ô d»r²kvq w Dgpeg0 ô O²tv dgu|²n
p² o gv²nAô vgw hnc| À n²tf²u⁰

ô | p c|²tv dgu|²ngm p² o gv²n o gtv lng²rgi p{grx/
xk² ui^a p xci {qn#

ô V¶ gu# Mw{c rgi {gm j c pgo v¶ gu c o² f²lc#

ô ³4xgp²gw Dgpeg c| gtgf o² p{pgm² u² r r gp cddc cnetv
j ci {pk c xk² ui^a v o knqt gu|²dg lwqw. j qi { c rgi hqv²qucddcv
ghnglv²gw0

ô Vwf/g tqo^a pwnAô tgeugpv²wt^a c xk² ui^a | »tc0

ô J k| gp tqo^a p xci {qn#ô hi {grvhnc| kpur gmq^t0

ô C| v cn²tnk o qpf j cvlc# ô wcu²qwc gn Dgpeg0 ô

Gn dd rg ngmvgp²lg c| ¶^a udgrk#0000

ô OkA
ô C| ¶^audgrk xk^aui^a# | p gu rvgwgo # ô o ci {ct^a|vc
Dgepg0 ô Xcp/g ¶^au|gtgA

C| kpur gmqtpcmxqiv^{3/4}v qmrc. r cr ktquc0
ô ~tlc#

C| kpur gmqt n¶^apeukcp x^atvc. j qi { o kv f km^an gl c
l²ncf gtf gkgo dgt. fg Dgepg nqo qn{cp xgwg c| Æi {gv0
ô ~tlc#

i Cn^a¶^aqw gl gppgn Xcf^au| | Dge²v xku|cj gn{^{3/4}^{3/4}
^an^au^adc. c 567/^{3/4}u w^au|j^a|dc ²u n^{3/4}gr| go o ci co cv. j qi {
u|cd^an|u|gt nkp^agxl²u²v. krgv rgi o kplu v²tkwo k qno^ap{^av
r quchqt^awn^axcngrlwwcvqo pgnk⁰

Dgepg j ki i cf vcp o gi p²|vg c| kcvq0

ô Gr²i l» ¶^auc xcp# ô mtkk^anc ²u |ugd²g vgw c|
qno^ap{0ô Pq o quv^auwm j qi { o kc dclc c r^ad^apcn0

C| v ku u|cnu|gt gp dgn^{3/4}^{3/4}vg. fg cncr qucp o gi lcli cwcvc
c| kpur gmqt0 O kg c n^{3/4}^{3/4}uugn n²u|gp xqm. krgf grn gup
o gi j ¶^avc o ci^aj q| <

ô Ngi {gp u|gtgpeu²o #

ô Fg pgo wfqm o gppk# ô u|cdcf nq|qw c n¶^apqm»n
xgtgl²ngu go dgt0

Dgepg o quqn{qi xc c| ^{3/4}dg xgwg. o kpv c eugeugo v
u nko^au|qwxgrg c u|cncf²nd»n0

M⁴dgp qfch^aw{gpvgw gpi go ku0 J^ato cp c| v^ap nqo »/
vqucp o gi kpf wnwpm j c| c hgr²0 C| kpur gmqt c Dgepg o gn²tg
j clqvc c hgl²v. o kpy c Dgepg c| ²f gup{lc xqpc0

ô Okv i qpfqn vgnk^avgvu Æt. ô v^atucni qw ô lcxw/g
xcrc o kv u|gi²p{ o ci {ctqmj gn|gvA

C| kpur gmqt ngf xgl hgr^avgv cfqw0 | p o²i j kvgo ku
pgnk fg Dgepg pgo ki gp0 O kpf co gngw n¶⁰²vgugp^ar qnwn
n²v per ki. o ¶^a c fci cpcv ngr^aj cfv. u c dgvgi Æpm Ald»n r^adtc
wfqw^ancpk0 C| cncw gi²u|gp ^{3/4}u| go grgi gf v^apn0 C| kpur gmqt
pgo u| ¶^agugp j ci {qw qw. fg j kxcv^aqu f qri ck xqncm kpf wplc
ngngw0 Dgepg gn ku n¶²tv. j qi { gn pg v²xglgp0 DÆu^a»wn
nkxgwg c n^{3/4}gr| x²p{vc |ugd²d n²u|qfcp{ Ævqc<

ô Vgu²m vgnk^avgvu Æ# Eucm v²hc xqiv 0 0 Eucm c
xk^aui^avenctvco xku|ccfpl0

Vku|vgu²i gu go dgt xqivc| kpur gmqt0U|cdcf nq|qw0

ô U » ukpeu t»rc# O ci^apcm xku|c ngm ner plc c| ^an^a/
u^a#00C v^{3/4}dkc| ²p f qri qo #

Dgepg gr^aqpf qm|qw ²u o²n| u|qo qt^ai i cn t^a|vc o gi
c hgl²v0

ô P g euk^anlqp dclv o ci^apcm o kwco #
C nî4grg|x²p{v³4u|gv²r vg0

ô O²i c|v j k jgp² c vgnkpvvgu À. j qi { g|²tv ugi ¶vgwo
o ci^ap 0 0 0 Rgf ki pgn²pm o ci {ctqnp²cm c l» u|» v³4dgv²t
o kpf gpp²n00 C l» u|». vgnkpvvgu À 0 0 0 P g ctte o gplgp.
j cpgo gl gp c|³4x²p{gp pg# Ugi qn nk pg v²tlgp. o gtv gl c|
kpi {gpgu A#P q c|²p Kvgpgo^a r f lc o gi #000

U » p²m²nnng|gvhqi vcn0

Ngi crî dd mngwgp o gi²tvw²mgi {o^au0

C| kpur gmqtqp c|qpdc p rî v|qw j qi { rgi clvqw h xgn
ki gp o²n gp i qpf qmuf km000

J WP [CF [Uf PF QT

3: ; 36

C PCFTf I | UC U\ GTGNGO

U³tqo dgtnk Dcrñ|u ulgt| fvgvgw gi { f^kmqv jqi { c p^atk kunqreul Æpk^f crcw rckp^{tc} ²u o cvgo c^knⁱtc qmcuuc c h^kv cnkj cu| qpvcxp n³4n²u tqul xcpw» xqn0

C u³tqo dgtnk n^{eu}2n^f ul²r. t²ik hcnwk j^a| xqn0 V^aicu. j x³4. pci { ul^qd^amen co gn^fgnpgm cdcrc^{nc}lp ³4³m^f rg xqrvgtgul vxg c rgi { gmo kwc | ucni^a vgt0

O²n^fu²i gu. p^atk wpcmqo vgr gul^{mf} gw gn c n^{eu}2n^fqp O²i c| xqrv c rgi kⁱcm cucdd kf v³4n²u. jqi { c euc^f ku. o gi c eug^ffu²i ku gi { hqto^a p vpcn^{mf}qw. vkr rgnⁱgvw< o kn^fgp rgu| c p^gxgn. cnkv c ìpci { u³i qu Àè Rgugp o gi / tgp^fgnA J ku| gp grⁱ hqpvqu. o h²rg ì Àè go dgttgn n^{gm} gi { Æw²pk gi { h²4²ncr^w. l^apkw»n^{gi} ²ul gp ul gr vgo dgtki 0

X²i tg o gi l³4v c f^kn0 C u³ti c j qo qn^w»v²tv m³f v²m c| ^am^o ^auj q| 0 Pci { qp h^{lc}vn go dgt xqrv. cnk o²i d³ul ng t^a. jqi { o^at dqtqx^amq| kn0 | u ku| qp { Æ ul gi ²p { rgi gvgw0 Co knqt c n^{je}uld»n nku^amv²u c| k^{pc}u c rqi i { ^aul^av n²tv. pgo wf^qw o^auv qf ccf pk o k^{pv} gi { ur^ati^a xcn^a v³4³4v rcr gp/ f gm^k un^{ew}wa⁰ Fcfqi qw ku c ul²i { gpng| ²uv n jqi { kn^fgp n^{mf}wu0 J qn^w gl pgo xqrv dcl0 C| h^lÀ^ri ul³4p { pci { fqri 0 K^{ik}m j q| |^a o k^{pf}gp²rg xkugv0 C f^kn^jq| ku k^{rg}w c n^{le}ulp { rcr gp^fgm^k un^{ew}wa^c0 C j^a| p²rg o k^{pf}l^atv o gi / ucl^anc xci { k^{pn}dd o gi ulgtgwg. jqi { kn^fgp m^gx²u j qm k^{lc} xcp0 O k^{pf}gp gvg o qu^{em} xcu^{nc}m t^a. jqi { o^aupcr vku| v k^{pi}gv j À j cuuqp0 C ul^qdcn^fp { pci { o / i qpf^{fen} ejqi { c o À gwo qnd^{cp} tgu^{ew}^apcm gi { t²ik n²rgv o gi lex^qqwc c j ctkup^a k0

C f^kl^amn^qtc tgi i gncf v c r^wkp r^{eng}»t^avpgxgm²pgn0

C ngeng c xcf u | n nwi cudcp | clmqw ng. co gn{ c ngtv rgi j / x³gd r qpvlc xqn0 | rrgp gl²tv. o clf pgo o kpf ki qw ãnv c nwi cudcp Dgtgpleg²u Mctqrc nkucuu qp{ ku0 C vcp[¶]x^ap{ nřv p²plg0 Dgtgpleg v{ gpj²v²xgu xqnv. Mctqrc v{ gpp{qrē0 U ki qtÀ hgi {grgo dgp pngxnv xkf²nk Àtknkucuu qp{ xqnv o kpf c ngw 0 C rgi pci {qdd o grgi dgp ku j quu| À j ctkup{^av²u wlcu dnÀ v xlugngn0 Tgpf gup gr ktwncm jc xcrcnk o gi u| »ñ// vqc ngv0 C pngxn gi {u| gt cttc hki {grō gl vgw Mctqř v j qi { xki {^a|| qp. gi { ncvkcdqi^at o^au| km c p{cni[¶]p0 G| qn{cp²t|²nk eugpi²u xqnv u|^ao wntc. j qi { pgo eucm Mctqrc. j cpgo Dgtgpleg ku dgrgr ktwnc o ktg c f k²m ku knp p gm²tg| vg. j qi { u| kp^vp gr ktwldqp0 \ cxctvcp p²| vgm gi {o^autc c| hli[¶]u^ai²f gu. r ktqu j wñ[¶]o^axcnc| ctewñp0

Crcp{qm pci {qp eu³pf gup xlugngf vgm c ngeng>tc crw0 O wpcnēnuctwm h³ř j clqrc. p²o^ap f qri q| vcn0 C| gi {km eukr ngvt[¶]v v j qti qnv c o^aukm cu| vñw>v j[¶]b gl gv0 | u nř⁴dgp c u|[¶]x[¶]Am o²n²p gi {tg u| gtgrō gugddgm ngwgm c f k²ncl0 O kv vgi gv nřv. mcutqo k u| ki qtdep pngxnv nřp{. jc c nř pi qn> p{^at xk^ai knv^vdcp gi { eukpqu. u| gi²p{ h k^a Xcp c nř⁴gn[¶]ndgp. cnk qn{cp qnqu. j qi { ncv[¶]tc vcp[¶]lc c nku/ ³eu[¶]ngv0

Eucm vto²u| gvgu. j qi { c f k²m ku u| gtgrō gu ngw gn³4 dgp0 F g pgo m[¶]ř[¶]p u| gtgvgw dgrg Dgtgple²dg. xci { Mctqř dc0 J cpgo gi {u| gttg gugw dgr[¶] o kpf c ngw dg0 P go wfv v ngv m[¶]ř[¶]px^arcu| vpl0 Dgtgple²pgm i {³p{³4 ctec xqnv nupf qtr knř lÀ u| go g. r ktqu u|^alc. o²i c| qttñ{wnc ku u|²r xqnv i {³pi²f t>| ucu|[¶]p. c| go dgt u| gtgvg xqnc qttq/ eu>nupl0 Mctqř pcm c vto gvg xqnv qn{cp tgo gm[¶]n nteu^a j qi { dqi tc rgi gvgw xqnc nř⁴pl0 C f k²m hcp^v| k²lc ³u| g/ ngxgtvg c nřv crcnqv. gi { u|²ru²i gv vgtgo vgw c ngw d n²u c| v c nyo dlp^anv kf g^anv h³ř nř[¶]qvc hli^a ngm[¶]pgm qn³t^atc0 M[¶]v j²v vgn gn gl gp c o >f qp. co knqt U^atqo dgtnk Dcř | u gi { gd²f w³p[¶] { u| >nvc f k²nj q| <

ô T²o[¶]v o grgi xcp# P go u[¶]n o gi gddgp c hngvg tvj^adcp. F qo dc{ À A L³4³p h³ř c u| qd^ao dc0 Cf qm o ci^a/ pcmgi { xk^ai qu pcf^ai q#

Cf qw ku c h[¶]pcm gi { ci {qpo quqw hgi²t hrcpgm pcf^a/ i qv. co gn{gvc pngxn j^ař u nř⁴u| ³pgwgnhqi cf qw0

Eucmj qi { c| ci^apf²npcm xqnv gi { nku j k^alc0 U^atqo / dgtnk À nř³o²vgt j quu| À h²ř tk xqnv. c pci { o ci cu^ai >n o kpf ki qř c nv dknppwg j qf lc c hgi²v0 Co knqt c ngul gi f k²m h³ř r t>d^anc c pcf^ai qv. j k^adc j À v h³ř c f gtgn^v gi²u| gp

j»pc cñ. c pcf^ta i cñ»n o²i o kpf ki vAj quu À xqñ. lñ/ñ
nngngwdgn ng j clcpcpxci { vñ gp^{3/4}egpko² vgt⁰

Kñ gp dqj »epcm xcn» ^{3/4}n^{3/4} gvdgp pgo ngj gv o gi lgrgppk
j^{3/4}i { gm gn v⁰ Rñ pg. j c xcrcnk ul gtgrn gu ku c j^{3/4}i { gndlg⁰
O kpgm nñ^{3/4}gmgñ v²dgp c ppxgn ngxkvg c pcf^ta i qv c nup{j^a dc.
qf c^a mvc ul cñ¹eup² gr²<

ô Mgf xgu. l» \ uw\ uc p²pk vgi { g o gi pgngo c| v c
dct^a wñ i qv. j qi { gppgm c pcf^ta i pcm c ul^a t^a d»n ngx^a i r^a t
egpko² vgt⁰ O quv ner vco c pci { u^a i qu À»ñ⁰ J quu À⁰ P go
wf qo ¶i { xkugpk⁰

C ul cñ¹eup². cnk qñ{cp xcuci xqñ. o kpv gi { rku vgu
| u^a m ul gtgvwgrigu vgnkpv² xgno gi uko qi cwc c f k² nqv<

ô Cf lc kf g À hkc| ve j qm k#

Qtt^a tc vgw c r^a rcu go gv⁰ E²tp^a v h | ^{3/4}v c v dg. o gi /
eucvqi vwc c| qm»⁰ U²rgp ngx^a i v c pcf^ta i ul^a t^a v.
dgu gi vg. nkxcucnc. c| v² p o kpf l^a tv nkncul vqwc ul gm | pk
c ngtvdg. gi { nñ^{3/4}vhc o gi gi { cñ c hc nñ^{3/4} hgu ¶¹gv twj c /
ul^a t^a ¶¹»m² r g⁰

Gñ^{3/4}v c| ²llgn i { ^{3/4}p { ^{3/4} eukñci lckxcr⁰ V Æu^{3/4}m ul »nv
c h dgp. d²nc mñwv{ qñv c| ^a tqñdcp⁰ O²n{gp cñf v c| gi² ul
j^a |. co knqt gi { ko dqñ i » nku lñ p{ lgrgpv o gi c ngtvdgp⁰
Dgtgpleg uwj cpv ngtgu vñ nñ^{3/4}p{ ñ r v kxgn c h Æ^{3/4}p⁰ I { gtv^a c
²u xctt»nqu^a t xqñ c ng² dgp⁰ U| gtgrn gu ul ¶¹ xgn nku^a o ¶¹
vqwc. j qi { c| crlc pcf^ta i lc j quu À ngu c h Æ²pcñ⁰ | u o kpv
l» vñ² t gn cñetv x² i g| pk v kñdcp c| v c ul qñ^a r vqv. co gn{gv
p{ ¶¹ncp t^{3/4}vgnv o gi vppkgi { kf gi gp hcvrgo dgtgpn⁰

Ngñeul vqwc c pcf^ta i qv⁰ Ngx^a i qv c ul^a t^a d»n gi {
fctcdñv. dgu gi vg. o gi eu»nqñc. o clf i { ^{3/4}pi² f gp xkuu c /
vgw c ul^a t^a ¶¹»nñ^{3/4} r g⁰ G| w^a p grñ^a v c i { gtv^a v² u o kpv gi {
cpi { cñ qtt^a dcp c nep»ed»n ul^a m» o gpp{gk xkuu kñv cñ
xkuu| cquqpv c p² o c j^a | dc⁰

Gñ Æv gi { »tc⁰ C u^{3/4} vdg o^a t dgrgu»j clvqv^a m c xk^a i qm
j clcprk ngj gmgvñgv. co knqt Æ lñ p{ nñ^{3/4} gñf gw c ul^a t^a ¶¹» /
nñ^{3/4} n hñ²⁰ G| Mctqr: xqñ vi { cpeucm i { gtv^a xcn² u o wñe /
nqu^a ttcñ⁰ Wñ { cpc| v² tgl vg ku. o kpv Dgtgpleg⁰ C ul ¶¹kg vñk
xqñv ul gtgrn gu ugi ¶¹gpkñet^a ucn⁰

ku ngx^a i qv c pcf^ta i ul^a t^a d»n gi { fctcdq⁰ | u o kpv
c p x² tg. o gi eu»nqñc. ^{3/4}ul gj clvqi cwc. xkuu cvvgw c j gn² tg
O^a t ul^a m v c j cto cv. c h j x^{3/4}u xqñ. lñ | qw c ñ p{ r r c wcuqu
ñ dc⁰ Fg Mctqr: g| gn pgo vñ^{3/4} f^{3/4} v⁰ Vcñ p nñ^{3/4} pvc ku< d^a t
ner pc vñ i { wñf^a uv c| ² f gu. vñqu o wññ dcp. co gn{gv
c h Æ² tv x² i g|. cnkv ul gtgv⁰

Tgi ign c hkuu m^hv x^h|| gn gi {^hAw. c hcp^hgm^hpcft^ai qv ku dgxkwg c| kpcu c p^hgxgn u| qd^a1^adc0

C f^hk^hm h^hgij A^hv c r^hcp^hcm^hv. 2^u o cl^hfpgo u^hxc h^hncf v O gi xq^hv 3/4^hkg c pcft^ai 0 C u^atc qn^h{cp t³/4^hkf rgw. j qi { c^hki 0 2^{tv} x^af^hkn^h4²rki 0 Pgo n^hg^hg^hw j^hq^hfc^hpk n^hg^hn^hg^hw x^hg^hpk v^hAv²p^h0

C tgi ign²n U^atqo dgtnk Dc^hn^h| u t^ap²| gw c p^hgxgn n^hd^atc0 Mku² u²tv f³/4^hg^hp n^htf^hg| v^ho gi <

ô Ok c|. Fqo dc{ A^hA Pgo l^h c pcft^ai. co kv n^h/ r^hq^hAO^hk^htv^hpgo x^hg^hw h^h4^hAV^hc^hn^hp pgo v^hg^hu| km^h#

ô J qi {pg v^hg^hu| g^hg^h. n^htfgo # ô h^hg^hn^hg^h g^hm^hg^hu^hg^htf^hxg c f^hk^hn^h0 ô K^hv^hg^hpk pcft^ai xq^hn^h0 Eucm gi { n^hku^hv i| vt^hlej v^hq^hpl^he n^hg^hn^hg^hw c j^hqu^h| A^hr^hi c o k^hw. o k^hgn c^hpp{ k^hcn o ci cu^hdd^hpc^hm o 2ⁿh^h| v^hkm r^hg^hppk p^anc^ho p^an^h0 O gi ku n^htfgo c u| c^hn^heup²v. j qi { xgi {gp n^hg c u^at^ad^hn v^h|| e^hg^hp^ho 2^hv^ht^h0 Tgo g^hm^hAv^h uk^hng^hAv^h n^htfgo c| q^hr^hg^ht^aek^h. o 2^{tv}m w^hp^h0 J c^hpgo n^hu dd. g^hu^hg/ xci { tgi ign pgo w^hf^hqo o k^hu^ht. x^hc^hnc^ho k^hj A^hn^hg c| v c i q^hp^hu| v²h^hv euk^anc x^hg^hgo. j qi { o 2ⁱ n^hg^ai q^hw d^hgn n^hg xci { gi { v^hg^h{²tp{ k^h X²i g c pcft^ai p^hcm n^htfgo #J w^hnc#J cu^hp^an^hj c^hv^hnc^hp#

C x^auq^hw v^hcp^h{x^ap{d^hn n^hku^hrt^hleeg^hv c t³/4^h 3/4^h2^u0 C| v^hp e^hu^h3^hpf n^hg^hw0 U^atqo dgtnk Dc^hn^h| u i q^hpf^hq^hnc^hv^hdc^hp c u| g^hm²p{²d^hg^h n^hu^hq^ht^au| q^hw. j qi { o k^h2^h n^hg j^hq^hm k^hcn n^hg^hj^hg^hpp n^htr^h>v^hq^hpk c p^hgxgn vA

Dgt^hg^hpl^heg 2^u M^hct^hq^hc j^hcm^hi c^hv^hq^hw0 Pgo xq^hv d^hg^hpp^hAm^h g^hr^hi d^av^hq^ht^ai. j qi { g^hr^ht^hw^hd^am c v^hkm^hw^hnc^h0 Ctew^hn^hq^hp. p{c^hm^hw^hq^hg^h gi {tg v^hg^hl^hg^hv c o g^hri. d^hgn r^hkt^hqu^ha^hi 0 T^hg^hu| n^hg^hv^hw n^hg| A^hn^hl^hg^hp c n^hep^an c j qi { c n^hx²l^hw^hnc^hv n^hcx^hct^hv^hn^h0 U²i {g^hp^hv 2^hg^h| v^hg^hm |c^hx^hct^h0 Pgo 2^htv^hw²m c| 2^hng^hv^h. o g^hn^h q^hn^h d^hq^h{q^hm^hw. j qi { g^hm^hq^htc d^hcl^hv^hw^h d^hg^hpp^heuk^apk^hc n^hg^hi v^hku^h v^hdd u| g^ht^hg^hgo ku0

CO KTG GI QP O GI VCP ~VQVV

Pci {qp t²i gp v^h4^hv^hp^h. c| v j^hku| go j²v^hx^hgu n^hg^hg^hwgo. co k^hu^ht gi { p{ct^hcv D^hc^hr^hv^hq^hph^hg^hgf^hgp v^h4^hn^h4^hwgo 0 P{^ar^hke. fg co d^hlek^h| wu n^hku^hk^hA xq^hnc^h. n^hg^hp²| vgo c ucl^av n^hq^ht^hqu^h v^hn^h{qo cv 2^u d^hg^hmt^hcn^hq^hf^hco c| k^h ug^hdd^hgm n^h4²0 G^h| g^hm c| k^h ug^hdd. v^h|| v^hg^hp^hn^hv 2^hx^hgu i {gt^hg^hm^h l^hh^hq^hto^ap 2^ul^htg ugo x^hg^hw^hm 2^hr^hg^hg^h eucm v^ht^hv^hm c l^hg^hr^hg^hp^hvgo g^h0 V^hcp{^apm c w^hr^hct^hq^hp j A^h>f> r^hnc^hv^hph^hcu^ht n^hg^hw0 Q^hw n^hcd^a| w^hpm 2^u h^hq^hi »eun^h| w^hpm tgi ign n g^huk^h0 C n^hqo r^apk x^hg^h| 2^htg gi { Gi qp p^hgx h^hk^hA xq^hn^h0 Gi qp n^hg^hg^hwo^at v^hg^hp^hj^a t^hqo 2^hx^hgu ku. x^hcn^hu^hi qu »t^hk^hu c u| go go d^hg^hp0

Ko qu n³4i 3/4mxqrv gt ul cnqu. rctcpeuqn vgo ²ul gv . xcn>/
u³i i cn | uctpqmquufqw h³4i v³pm fg ²p pgo d^apxco 0 —i {
p²| vgo t^a. o kv gi { j utg0 D^ao wxco c| gtgl²v. c| Ai {gu/
u²i ²v. ul gtgwgo xqpc ekr ngppkc n³d^ap0

Grgkpv eucm h³Am xqncm c v³tucu³i dcp. fg n³u dd. c
o co^am ²u rcr^am kuo gtnf²ug t²x²p. n³a p{qm ul t fvgm
n³4²pn0 V||. v³gpn³v²xgu nku³p{qm hgi²t rkn³ ul qnp{^a/
dcp. hu³gmkdgp0 Detpwncm ul grn u³4vgm c p{^at dcp. o gl v³
vrgp n³du^atwm co gn{ qn{cp ul v³p xqrv. o kv c dctcentci {/
rnv. vrgk ul Ap{qi eu³2ugm hqmckxcr0 Pnggo gl gm c n³p{qm
eu³4rgv ugo vgw| gwgn0 Kgi gu² vgw c p{chnu³i wm c i {3p/
i gu²i An0 Okv ²t gi { kn{gp n³p{A Ugo ok# Mku^ao v³qvc0.
j qi { d^at o²i ir>n^au³ xci {qm cn³to gn{knv xgu²n³ p²mAn
h³4r qh| j cv^ao 0 Pgo ku ²tvwgo c dct^avco cv. j qi { o k²tv
v tkm gn c vqrcnuf^auwncv. co knqt ugo o k²rg l^av²nj q| pgo
ngj vgtgpf gup c j cu| pwncv xgppk0

Rgfki gnv t²m ngv0 O²i Gi qp ku ngtgul nfg gw j q| |^a/
lwm gtgl²pgm²u ²tgwu²i²pgm o²n>u³i qu o ci cu³i^ad>r0

Xqrv c n³p{qm n³4v gi { Gt|ukng pgx nku j³4i { . gl xqrv
c n³i ul go vrgpgdd0 Grgwg c rcd^akpnev p{^axqi qw. rctcp/
euqnev qu| qi cvqw. j qi { o kv l^avu| wpn0 VAtgm vrgpAn x^at/
vo . j qi { c j cvco cu Gi qp. cnk xgn³pm qn{cp ul ki qtAc^ap^av.
o knqt hqi lc o^at gl v c rko cu| nku v³eu³4w o gi tgp^aul cd^a/
n{q| pl0

X²i tg gi { f²rgn w h³4j^adqt v³ fqm³ v³4v²p0 Gt|ukng
j q| |^ax^ai v c rcd^av Gi qpj q| 0 UAx³4xg tgr Anv ngtgul vAn c
rcdf c rnxgi p. gi { gpgup dgr² c| ²p gt u²u ul ki qtAxg|²tgo
cte^adc. j qi { eucm Ai { eucwep0 | u o²i u³tqu ku xqrv c rcd^ac.
o gtv c| ²lv| cnek gu v n w³eu³m xqncm c rtqo gp^af qp0 C| An²u
p{qo^ap nku r ku| qnhqrv nrgvng| gwGi qp cte^ap0

i Pc o quw³e ô i qpf qnco n³ngm gwku| chqlwco | u k³i c/
vqwp rguvo. j qi { o k²rg d³pv²uv hqi ncrpk c tqpi {
nku r t³eu³4m n³p{ c o gi d^apxw h³thk^a>r0 Ogi ku kfg vgo gi {
nku³0 Xcrco k dqt| cu| v³ fqm³qv x^atco 0 C nmggo dgp qf c/
uAi vco c n³p{pcm³ U c r f l q p gn o ci c tAn³e

Fg Gt|ukng pgo ul c r f v gn0 Xlj qi xc. lpi gtnf xg nk^an
vqc qf c Gi qppcn<

ô Tgo ²ngo . j qi { l³l#

Gi qp xki { qti qw<

ô DgeuAn³gw| cxco tc. pgo l³l# Eucm r ku| nqu r wgo #

ô ²u c mg| ghg²xgnv³4Ani gpkrt>d^anc n³r²t nc uctw0

Gt|ukng xgu| gmfg gw<

ô P g o ^a | qrlc u l ² # I { 3/4 l 3/4 p k f g 0 N g v 3/4 ã r 3/4 o #

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

ì J ^a v g l o k ã ê ô i q p f q n c o o g i j 3/4 m g p x g 0 ô G | x c n c o k
 Ì f q r i . c o k v p g o ² t v g n # H k i { g r o g u g d d g p u l g o ã i { t g x g v
 v g o G t | u k n 3/4 v 0 V 3/4 v g o c h g l g o . o c l f j q o ^a n { q u ² t | ² u n g l f g w
² d t g f g l p k d g p p g o G i q p x k u g m g f ² u ² p g m q n c k » r 0 P g o x q n c o
 v j g w ² i v g r p l 3/4 t h f g l . 3/4 r g t e o ã r c o ^a t h ã r k i d g r 3/4 u l g t g v
 v g o G t | u k n 3/4 d g ² u q f c c f c o x q p c ² t v g o k p f g p g o g v j q i {
 c | ² p c t e q o c v k u o g i 3/4 ã r i g c | u g d n g p f l ² x g n j q r w g i {
 p g i { g f » t ^a x c n g n d d o ² i ² u l t g u g o x g w g o . j q i { G t | u k n g
 j c l c u l n g ² u c u l g o g | 3/4 f 0

\ KNCJ [NCLQU

3: ; 36

f NNCO KQTXJ CNf U

Tgi i gn nřv »tcnqt ul »rciv o gi c| 2 dtgu| v »tc0 Qf cnkpv
 o²i u^{3/4}v xqm0 Ogi i {Alvqwo c i {gtv^av²u^{3/4}n^{3/4}pk
 ng| f vgo 0 C| v³p nkřr vgo c hcnwuk j^a| vtp^ae^atc. c hkuu ng/
 j gngv p{^atk²lwl cni dc0 Hgncvqnc0 c j^avk^au^anqo cv²u
 ng| go dg xgwgo c j quul Ā j qti^aul dqvnev. co kmgn »xcv/
 ucp ngngw j crcf pgo c ngvdgp. j qi { dgrg pg cnef lcpem c
 i cm{cndc0 Eucm gi { pci {qp v³xqrk nenau} » cfvc wf vgo tc.
 j qi { c pci {. grxgp xkři qp l^atqm c u^{3/4}vdgp²u c j cto cv
 krcvĀeugpf dgp0

C hcnw vĀn hĀ gu nřkgnv| gw. c hĀ gup vĀn^{3/4}gi hcj ¶
 xgl gvgw^av c hqn» j qn^ai^ap0 Kw cf vco vni mql »v c nřl²/
 t o pgm dk qp {qu Xgtgu L»une pgx go dgtpgm cni n c hcnw/
 dcp c| v o qpf v³m j qi { c rgi lqddcp kuo gtk c j ccm l^at^au^av
 gl gp c xkř²ngp0 Gi {gdgv pgo wf vco t»rc0 C twj^al^at»n
 ¶²ixg pci {qp ul gi²p{ go dgt rj gvgw qn{cp pgi {xgp²x
 nř⁴Āk0 Mcvpcdcncpeu. d^atuqp{pcf^ai. pci {qp tqpi {qu
 nrd^av. o kpgm o kpf c nřv | ugdg ngpv nři qw. o kpvj c j qo qnqv
 j qtfqw xqpc dgppg0 —i {^ancr qf wpm o gi. j qi { gttg c|
 gi { j²vtg. co ¶ kw xci {qm qvj ci {lc c eu²rn i²rgv²p
 r gfi f wrc per ul^a o qv hĀ gvgm pgnk o gtv c| v gn ngm kuo gtpk
 j qi { cnk c| kwgpk j ccm ul qnř^au^av kuo gtk c| pgo o kpf gppcr k
 wf qo^ap{0 Vgi per o^at vtgr ul go rřv ku vctvwwpm c xkř gngp0
 Gttghř pci {qp gt u c Fwpc0 Rt»d^anco gxgl pk fg c x¶
 nkř qdc o ci^ad»n c nri^avq0 L»une pgxgvgw< vgu²m eucm
 kf gcf pk ki c| i cv» Ā0 Pgo wf vgo. o k qnd»n vku vgn gxxgn
 c o gi ul »nř³uenc c rgi | Āi »dd hqi »nev ku Āi { nexcvc.
 o kpv c rixguc nř^anci Rgf ki pgo nř ul qwgt u go dgtpgn0

C ng| g ku nleukxqrx pgo c| c pci { fctcd r ctcu| wñ| 0Cpi qn/ dclwu| v xlugrx co k c| v o wcv. j qi { xcrc knqt. xcrcj qn o^at nkz^rrgw c o²n(rctcu| k²rgvd r0 Fg c| v^p xkuu| c| vj cpv pcr u^ao qupcn0

O gi^a mpm c u^{3/4}v j^f qp. x^atcnq| xc0 Eukmji gi { nleukv rpp c j qm^ai. o gtv c u t d²nengpeug p²j qn nkcnctvc c o gl vgrp xk gv0 Qn(cp c x^f. o kv c| crx» cuu| qp{. cnk n^am^adcp rgeuAu| qw c vncet»0 C| Alj qrf l²p{g eukmji gl gngp c o gl vgrp j gn gngp0

Gi { u| gteum o gi lgnepkm o gmgwgo L»unc c fgtgpi u^{3/4}vdgp. qn(cp pgu| vgrpAn o kv c xct^a| un»0 Hgn xcp rcm nqkx c o kv gpl²rg j^an»twf cmcn gxgl rcr^avqncr0

ô O gj gv^{Am} ki c| i cv» A^t0

Mgtgu| v^{Am}^ai wpm c pci { h j gtegi k gtf p c Fwpc hgr⁰ O kg c rctvj q| ²t^{Am} ^avngpdgp c h | l²m o^at xkrcu| p n^{3/4}xqpcrv o wvpcn0 C pci { eugpf dgp eum c x^f uwj qi^auc j cmv u| kn0 Kv. c pci { gtf m n^{3/4}² |^atv o gn²nⁱ dcp Aⁱ { ukv c x^f. qn(cp t²o ^{Am} kco nⁱu^{en} o kvj c xcrcj qn pci { qp o gi / ngti gw²m xqpc0 U²r xcf v¹ gl. ug go dgt. ug^anev ugj qn0 O²i o cf^atj cpi ug0 C l²i o cf^at ku p²o^ap xkmji gn c h | l²m gn v0 Eum c j crm pgo vku| vgrk c eugpf gv. l²mku»u r qpv{qm f qd^an^am hgn o ci wnev c tqj cp» x^fd n h²tg. ctep{dctp^ap²u j wrcm xkuu| c gt u euqddcp^aucr0 G| gm c pci { j cteu^am gn n wi^arcn0 J cpi p²m^{Am} fg k i cvqwp n²u^fAm gn c u| gtu^ao qncv0

ô Kvc j qti^a u| lgi { . L»uncA

C nerr l^aj q| ner. o kvj c hldgx^a i v³mxqpc0

ô J^fpp{g. grhrglvgwo #

ô Pcj^av cmqt u| gflg c j qm kv²p pgo j cr^au| qm lgi { p²m^{Am}# G| v o^at vgi per o gi o qpf vco # Qf ccf vco c j cv r gpi v. j qi { o gplgp c n^{3/4}u²i j^a|^atc c lgi {²t v# C u^a/ l^adc t^ai vco 0J qi { rgi gvgl vgrhrglvpkA

ô Kc| i cv» A^t n²tgo 0 0 0 pgo n²m c| c j qti^a u| lgi { # Vgu^fmgj kppk j qi { 000

ô Pg dgu²rlgp kv o ci c pgng0 # Okv euk^arv c j cv r gpi xgnAGkvcA

ô Fgj qi { kvc. pgo ku| qm²p ucj c0 Kv c j cv r gpi . vgu^fm xkuu| c ku cf qo 0

O^at vgi per ku e²m| i cvqw. j qi { o kvgm c j qti^a u| lgi { 0 C u| »v n ku k v» kn0 O quv ku qn(cp ctenk²gl²u²gn²u n²| o q| / f wrcv o qpf l. o kvj c xcrc k pci { u| gtp²vgp² i t n cnetpc dgu²rp0

ô P go ngmc| c j qti^a u| lgi { . ki c| i c» Àt#

ô P g l^atlqp c u|^alc# P g o ci {ct^a|| c pgngo # | p pgo
vū| go nk o ci co j cv r gpi² tv c p p c m j qi { grk ki { g p g m c
eugpf t^{3/4}n#

O gn²tg vū| k c ngl²v. o gn²o r²r² u l²rtgvctvq w hllgn
o qpf lc. c u| go g ku n^{3/4}p {^{3/4}^{3/4} <

ô K c| i c» Àt n²tgo 000 pg vū²m l²rp k 0 0²pxgrgo
vgeeknrppk 0

Cj qi { x²i ki p²| gm gl gp c vqr tqpi { qu crnūp. gl c| i²p/
xgrgo vgeeknrppk² pgo pci { o gi p { w i x^a utc u| qri^a r⁰

ô J^av »tcnqt dgo gi { c n^{3/4}u²i j^a|^atc. nkx^a nlc c lgi { gw#
O gi²tvwgA

P go x^arcu| qn⁰ P gu| vgnp²Ān o gt²rk ng c nkugddkm j^an»v
c n^{3/4}xgur ctvkx² dgo

O quv o²i eucmp²i { »tc0 Cffki vrf p pgo l^at gttg eugp/
f t0X²vgnxqipc gl gn²vc l» tgi i grk»t^anevnikpgo j cu| p^arp k 0

Dg i {^{3/4}p {^{3/4} gl c xktcf c x 0 C| Ālj qif o^at pci { qp
j crk^ap { c xk^ai quqf »²i gp 0 C v²Ān» rctvq c l²m u|²r tcl^ap
^awk^ai v²rcu²cp c rktqu^ai. o gtv qppcp hgn n l^{3/4}p c pcr 0
Gdd n c rktqu^ai d»n c j qti^a u| dqv plmgn j gi {²tg ku lww gi {
ngx²ung 0 | u c x² ku rktquqf km o k²vj c dgn²Āt n l²p { rpgg.
o k²vj c pci { v | l^{3/4}vtqj c p p c gnc dctpc x² 0

Dcrqf crv l» o guu| ktg o gi euqddcp c hqn{». n²vū| gt
gi { o^auw²p 0 U| c txcuvgi²p Āu| km^av c j qtp {^axcn c o^aukm
rctvc. c u| ki gtg 0 Qn{cp gt u c x² uqf tc. o ktg c hqn{co
n^{3/4}gr²tg²tpgm o^at kw xc p p c m gn w²Āpn 0 Hgl hgl o gngw 0
Lqddn²| hgn n²tpgm rctvq 0 Ng^a||^am o ci vnt»n c xk²gv²u
gnv ppgmc hngvg l²mn^{3/4}^{3/4}vc rktqu r²xgi dgp 0

L»unc o^at hqi qw n²v rcf veqv 0 M²pp { pgnk j^an»xcn
f qri q| kn 0 P gngo o²i eucm ner^auqo ug xqn 0 F g pgo c
u| »tcnū|^autc o gi { . j cpgo c| gpplxcn»tc 0 O gtv c| c pci {
vtx. j qi { p {^atuqpu²Āvr c f veqv l²Āv²n^{3/4}Āpn 0

Gi { u| gttg eucm j ktvgrp. o k²vj c c r²xgi d n r c w c p c m
xqipc gn. n²v eugpf t l^{3/4}p dcrqf crv c rctk^{3/4}ux²p { gp 0 k²vgm
L»un²pcm n²u²i dggugwgp o wqi cvqm ettc c hglgo o gr 0
L»unc qf cp²| . fg o gi ug o q| f w 0 P { w i qf vep hqi lc vx^add
c j^an»p { grv 0

L^{3/4}ppgm c eugpf t^{3/4}n l^{3/4}ppgm j cto kpe r²r²up { ktg ulp/
eugpgm o^at 0 Qn{cp u| k²fdqi^auv ner qm j qi { c euwm»o d»n
ku nko gi { c| gt . cj qi { c dqv v vctvq 0 J . fg ngn²go gv²p
Āi { gl 0 P k²eu p^aro ugo o k ki c| qix^ap { . gddgp c j c²u| /
tvj^a o dcp gpi go ku gi²u| d^avcp eucxcti »pcmp²| j gvpgn 0

Gxku|pgm x²i ki nfi²tpgmc hncp0O quvo^at grhwpk grdÀpk ug ngj gv0 C hpgg gi {g o gi g|v c fku|p» L>un¹v. pgo o gt c i c| go dgt t^ao p²|pk ncr wn o kpv c p{An v³p cddcp tgo²p{/ ngf km j qi { i³/4³pi {pgm p²|km c eugpf t³/4²u gro gppgm o gmgw0

Ngi lqdd c uqtu u|go²dg p²|pk0 Mk^am>m c| Àv o gn². n³/4p{gf²p eufr tg vgu|go c ng|go 0 C| go dgt c|v jku|k j qi { pgj²| rkrpcvqndcp c| kn{gp o q|fwcv v³p ugi ¶0 L³/4p c n²v eugpf t. l³/4p. l³/4p. gi {hcto c r²r vgmgn nencu/vqmcup. u|¶c|qw^ancr0 C| gi {km nkugdd. u|ng. c o^aukm o ci cu hmgv0

Ok g|A Gro gppgm o gmgwgo. o kpv c ngxgi xqp²n0 Rgf ki c| gi {km L>un¹tc ku xgvw gi { rkrpv³u0 P²|gm w³/pwneuf^amq|xc0

L>unc hgp²| t^ao c rctv>n pci { o qucvcp hqi uq^av o wqi cvc xki {qtqi 0Mkxgu|kc j^an>v hgn³/4p j q| |^ao 0

ô ©i {ko qpf vco. ki c|i cv» Àt0

ô Kuo gtko ci c gi gmgvc eugpf t³/4ngvA

Ngi wi i qn c v| o gn². ng|²xgn tcnqui cvc c pci { rctc/|ucn²0

ô Vgeekm wf pk²p eugpf t x>vco 0 Cnmqtkd c luo gtvg o gi c hgru²i go gv0 U gi ¶p{ l^ap{ x>v pci {qp u|gi ¶p{ l^ap{ 0 0 0 gi {²dn²pv ku. c p u²ñ²uk u|cd^an|cv gkd²pm^anm0 Fg pci {qp u|gtgw^am gi {o^auv. pgo x>v o^au Àv. qw ngngw j ci {pgo c|^amco qv0 V¶²xg gppgm c|»vc pgn²o p{»e i {gtgng²o xcp0 Gi { o gi j>w. gi { nkukÀ cxxcn nkrgpe rppg0 Pci { p{qo qt^ai u|cncfv t^apm o gt g|gp c xlf²ngp tqrrcpv ngx²u c o wpc0 O qpf j cvqo. tqrrcpv ngx²u0 P go ¶i { n²r/|gng²o 0 O leup^allcmA J c plpeu o wpc²o. o gi {gm c x¶ tg j cñ u|pk0 P go nku f qm| c|. n²tgo. p{»e u^alpcm gppk cf pk0 O^ap o quv c| c j gn| gv. j qi { g|v c|²p pci {qp pgi ¶ ¶gvg²o gv o kpf wi i {^am c eugpf t³/4n0 C| qn²c ku xcp g nku nqngi c/²t|gv. n²tgo 0

Ngi clqn c v²gv hÀllc. ctec c h²/4gv u²qric0 Rgtp{g o gpv c u|go²dg. c|qp Ài { ugi ¶v. j qi { c|³/4n²xgn k>n dg/p{qo nqf lc c u|go kdgo

ô Ok vgeekm n²r|grkA | p^ancpf»^amco k hgn²Ài {grgv o gmgw j cñ u|qn0 C|²p ng|go dg lqdd j gn|gp xcp c| ki c|/i cv» Àt. o kpv c o ci c c dgn²Ài {o kplu|vt Æpg kx0

L³/4ppgm xku|c c eugpf t³/4n0 Xcmo k²tv xku|cncp{c/ tqf vcn0 Gij À pcm o gmgw^apm c nkugddkm c u|ng. qf cu|»n L>un¹pcm fg cp²m²n j qi { t^ap²|pg<

ô Xli {^a||. L>unc. l³p c h gtf²u| Àt0
 | u o gppgm^vqx^a dd o q| f w^vwp vctm>xcr0
 L>unc. o kpv c xln^o. o clqo o q| f w^vqmⁿ n^r nqflc
³4u| g c j qm kv. j^a v^k u^a nqv. u| gtul^a o qn^v0 O lgn w dgwi tkm
 c dqm^tdc t^a o nk^a n<
 ô Kc| i cv> À. r weqrlv^pn#
 ô O gi^a mlqp#J qx^a o gi {A
 Eucm c dqm^t |³4tgp w^apc gi {tg o gu| gdd c pci {
 hw^a udcp0
 Dqm^pf go dgt. pgo wflc. j qi { c h gtf²u| l> dct^a vqo 0
 O ci^a pgi gf²n^v cfqw pgn^o c j qti^a u| ctc0 l³p ku o^at.
 n^rer l^a p o cf^a tqm r wun^llc mgtgu| vdg Xgwg c j^a v^a p0
 ô U| gtxw|. hqi v^a no^at xcr^o kvA
 ô O²i pgo ki gp0
 Pgxgv rgi {kpv. vx^a ddo gi {0 Eucm gi { dgri cr wun^lu
 xcf^a u| wflc gpp{kg o gi xgvk c j qti^a u| v. cnk i kku| v^a xcn
 f qri q| kn0O²i o guu| k nku pggwg t^a o rgi {kpv0
 O gi x^a tqo. o [¶] gm gi {. c| v^a p L>unc w^a p nkcd^a nqn0
 Fg L>un^lv gpp{gn^g c| gtf 0 Grkkg c j^a v^k u^a nqv. c u| gtul^a /
 o qn^v. c eli ctg^w o ku c j^a v^k u^a mlcp xqn. o quv o kv eul^a n'
 lcnA^kgf vldgp v^a p o²i o quvku u| crcf xcrj qr0
 Qfc c o w^vu^a i 0 P cr guki j qti^a u| j cw^vpm xqpc kv
 L>un^lxcn j c ³4u| gvuu| Ñng| vc n^l v^l r r tqvne^lv0
 Cddep xku qp^v pgnk xcp ki c| c. j qi { o²i ku eucm o^a u
 c|. lgi { p²m^Ñj qti^a u| pl0

D̄ MC[Lf P QU

3: ; 4/

C U\ GTGPEU UM \ KTCV

ô Grkuo gtgo . j qi { nk v p c | ¶ r̄ ug. tgo gm c u | go g 2 u
 dk̄ vqu c | ¶ 2 r̄ vg. ô o qpf v c gi { km cuu | qp { dct^a v o . cnkv
 ¶ gugg h̄ p̄ qo k̄ »pk^{1a2} tv u | gtgv̄ m̄ c ô fg o qpf lc. dct^a v o .
 j qi { cp cf j cwc nk J cm ck D² r̄ pem c | v c dqt | cm cu tgi² /
 p { 2 v c i H̄ r̄ gl̄ v̄ gp gn ngf xguë / vA O k 2 tf gngugv v̄ n̄ iv g | gp c
 tgwpgvgu d^a ti { A^a i qpA

Mku² u | 2 i { gp̄ n̄ | xg xgtvgo ng eki ctgw^a o t » n c j co ww
 c | v̄ p. kuo gtxg gmgph̄ r̄ go gv. u | ki qt Ā cp o qpf v c o <

ô J c o gi ¶ 2 tk j qi { x² i ki j cmi cv 2 u pgo | cxct o gi
 n̄ 4 dgp. h̄ r̄ r̄ gmc n̄ 2 tf 2 u 2 tg0

O gi ¶ 2 tv̄ 0

,

ô | r̄ vgo ngi u | 3/4 p { dd go r̄ ng h | f km gj j g | c tgi 2 p { /
 j g | 0 M̄ p̄ q̄ n̄ d̄ cp. r̄ gm̄ kkuo gtgv̄ h̄ t̄ f̄ c̄ r̄ ī uq̄ m̄ n̄ 4 v. ^a m̄ cv̄ r̄ p̄ w̄ n̄ gn̄ 4 /
 v̄ 4 v ¶ i { 3/4 t̄ gm̄ gu p̄ cr̄ go r̄ ng0 C̄ m̄ q̄ t. co k̄ v̄ w̄ f̄ lc. o 2 i
 r̄ gm̄ q̄ t̄ c x̄ q̄ n̄ c o gi { km̄ p̄ ci { nk̄ cf » x^a n̄ r̄ c̄ w̄ p̄ n̄ p̄ c̄ n̄ 0 Gi { g | gt
 dg^a n̄ v̄ j q | | ^a o c tgi 2 p { u | gt | lg. n̄ | k̄ c̄ w̄ c̄ c j » p̄ c̄ c̄ r̄ w̄ 0
 C | c̄ t̄ ē c̄ Ā p̄ p̄ gr 2 n̄ gu. ^a u | gm̄ go Ā v̄ . c j c̄ pi lc r̄ cv̄ ḡ km̄ w̄ 0

ô Dct^a v̄ o . ô o qpf lc 2 u t^a o h̄ ã i gu | v̄ gw u | go g u | k̄ v̄ g
 n̄ 4 p̄ p { dḡ r̄ d̄ c̄ c o gi k̄ p̄ w̄ m̄ ^a i » n̄ c̄ ô dct^a v̄ o # | r̄ v̄ go p̄ ci {
 o x² v. 2 r̄ vgo tgo gn̄ o x² v j q | v̄ co gn̄ p̄ gm̄ f̄ # G | m̄ Ā v̄ p̄ d
 o k̄ p̄ c̄ p̄ p { k̄ p̄ ^a n̄ co kv̄ ḡ f̄ f̄ ki ¶ v̄ co # G | gi 2 u | gp o ^a u 0 0 0 G | c | .
 co k̄ t̄ n̄ o k̄ p̄ gp ¶ i » ^a m̄ q̄ f̄ km̄ j qi { gi { u | gt v̄ r̄ p̄ o gi ¶ lc0
 P̄ gn̄ go uk̄ n̄ t̄ Ā n̄ # J k̄ f̄ ḡ # O k̄ n̄ gp̄ d̄ q̄ r̄ q̄ i ū i . 2 t̄ gl̄ pk̄ j qi {
 ki c | ^a p̄ p̄ ci { q̄ v̄ c̄ m̄ q̄ v̄ w̄ c̄ | go dgt #

I { c̄ p̄ ē n̄ q̄ f̄ x̄ c̄ ū c̄ p̄ f̄ ¶ q̄ v̄ c̄ o t^a 0 Uq̄ n̄ x̄ gu v̄ r̄ c̄ u | v̄ c̄ r̄ v̄ d̄ » n̄

wf'co . j qi { c nř | ktcvqm l»u'ic hqtff'qw ct^ap { dep ^am
 ¶»lwm ngmgugf²u²xgrŃ C xkř i nř i { cv^add nř | ktcvckv tgo gm'
 o xgmřpv o wcv^am dg c ulgt| nŃ C| vř p o gi hxcvn nřtqo
 gmgp²tg ku wf'co o^at. j qi { c| v c dk qp { qu pci { tgo gm'
 o xgv. c| v. co gr| km vřlguggp nřgrř i ¶k c ulgt| dgeux^ai {^av
 uqj cugo ¶lc o gi c x²tdgrk¶»0

Hcp { ct nřj gvgw c| cteqo . vřř p c h'řgo gv ku o gi /
 xcnetwco 0| ul tğxgwg0

ô G| gm xci { vqm vk nřmqtqn# ô nk' nqwc f'Ā 3/4ugp0 ô
 G| c u' ti c kki { u²i . co kpv gi { km nřmř i^a vqm xcrc o k pci { qv
 cmq'qv0 Rgf ki . j c wf'p^af 000

ô Cff kf g ô o qpf'co pgnkeugpf guggp0

ô Eucm gi { hgn²vgn crw ô hrgng d'Ā ul ng 3/4²t| gwgn0

ô J c o gi ¶²tgf . j qi { o²i o c gnřxcuqf 0

Tghzgo ql f'wrcwn o gi p²| vgo c| wqn» qrf'cn ul^ao^av<
 p²i { u^a| jcxcpp { qre u t p vřgi²r grv qrf'cxc xqiv c tgo gm'
 o pgnŃ U 3/4p { d^ai { cf v^ai qv²tg| vgo c| qppcn pci { qv^au¶
 vqwo²u ng| go nřpncf vcp nřj wñwŃ

ô P²| f. hco . ô o qpf'co nřp { 3/4i p²u c vgnkpvgo
 ku guf'gm nřj gvgw ô tğpi vgi c f'qni qo . nři crř dd j'Ā ul
 tgi²p { nř | ktcvqvnřmgnřxcupqo c j²vgp0

ô Fg c| qm pgo tgo gno xgn# ô o qpf'c tğpftg/
 wcu¶»p0

ô Pgo tgo gno xgm rgtul g. fg c| qm ulgt| k ku c| v
 j ku km 000 C| vř p o gi²p o ci co ku ¶qm gi { tgi²p { v. lřgp/
 vřmgřp. ukř p { nku vř nřm^ap { . fg c nřcf » o^at u'Ā i gv.
 o gtv gn tg nřk gwŃ Cpp { kv o gi ¶²tgm j qi { i { qtucp grqñ/
 xcuqo c tgi²p { gf'gŃ O qpf'lwngi { j²vcrwŃ

ô J c nř vřp# ô d³o d³ng0 ô Gi { j²vki cnetul r ku /
 o qi pk c tgi²p { go gpA Go dgt. pgo wf'qf . o kv dgul²n| A
 J ku gp. j c o^at dgrngř f'v²n pgo wf'qf nřvppk c| wqn»
 uqt^aki 0

Cff ki gt ul cmq'unqf'qw. nřp { 3/4i 3/4v. i qtqo d^aunqf'qw.
 i { cp'Ā ul'qw. co ¶i o gi ¶²tygo pgnk j qi { j^atqo per crw
 hřhcnqo c nř | ktcvqŃ | u o gtv d^ati { Āp ul cxcvctv» go dgt
 xci { qm hři vco c 68: qrf'cnv²u dgi { 3/4 3/4i 3/4ng0 nku kcv/
 vř unř o dc. j qi { j c| cxku| go c nřnř uqo te. ²lvul cnek ul » tcnq/
 |^aupcnŃ C| 3/4f 3/4 xki { gp gno křp gp o gi nř v'ci quqf'qw¶»v#

O gi nřj gv ugp nř dwnv xqnc o c o gff ul » euc^v » n c
 xkrc o quqp gm gtğpi vgo nku². o clf pgo vx^addwc| vco gi {
^amgo^auucŃ Gd²f nř 4 dgp ku ul » vřp²u nřxgtv xqnc 0 C
 o co o wñř | ktcvgrxgwg c| ²w^ai { co cvŃ

ô O kxcp xgrgf Aô nřtf gl vgi i > fxc c hrgu²i go 0

ô Ugo o kŮ Mřr| grf eucm000

! u ²rrgp gn cnetvco o qpf cpk pgnk ul qo qtÀ j kũ»tk^a o cv
c| ³/pk^af» ¶!»xcn co knqt ^axknrcpv c| ci {co qp< j qn c
v³unc ²uc nř| ktcvA

C xknc o gi^anv c nř| go dgp0 VÃuv²pv hgnv tqvco .
ngeucr xc c| cu| vcmgpf vŮ

ô C| Krvp²tv. o k rgnA ô t²o Ãř³/₄³/₄v c| cu| qp{0
J cmw^ar cf vcp. xgtglv²ngu j qo rmmen dgxcnqvco .j qi {
xcrcj qn dk qp{^atc c xknc o quqp. grkgul vgwgo c xkř i ktf c nqo
gi {km j cvm cu tgo gno x²pgm nř| ktcv^avŮ J c c ul gt| o gi /
wřlc c xcn^ař i qv ²p ul qo qtÀ o quqm{cn dgeuwj cvqo ²ř/
vgo nku dqm^avŮ

ô Wi {cp. nřtrgm ô xki cu| vcn ³/₄³/₄m qr vko k| o w^axcn
l>| cp hrgu²i go 0 ô P kpeu ugo o k dcl# J c c xknc o quqp
j ci {cf. o gi vřřnc c nrcw| ²u rcfv c x²i^amno^auqp0
MÃř²pdgp ku dgřvco c v³unřdc c pğxgf gv²u eřo gf gv. c o gi /
vřřn» nř vpk hřilc. nk xgu vgw gn ²u c| qppen xku| cmÃř kŮ
Młpgmngmc| křgp nř| ktcvŮP go gugp{ . j qi { gmr l^anŮ

G| c ři kmu ²txgr²u vi {cp pgo p{vi vqw o gi gi²/
ul gp. o²i ku nku tgo ²p{v nřngw dgppgo . j qi { c v³unřp
telc xcp c pğxgo 0

ô C| v³p o gi c nř| ktcv ku dk qp{^atc ul ki p^anc xcp0
MkřtÃn j qi { nkřvco

ô P kpeu ul ki p^anc0 Gttg mÃř²p hři {gn gl vgw0 Vkmřpk
cnetlc c nkř» gn w. j qi { ¶v c tgi²p{vŮ

Mekv p{vi qf vddcp. u v gi {tg p³/₄gnx dk cmqo o cn
o gpvgo gn c Dgu nřtv křf^al^adc. c vřřnv v³ti {cm nř³/₄³/₄v
nrcvplŮ O křf gp xqrv qw c xkř i qp. nř veu . gugp{ . r^ar cu| go .
u vekr ku. eucm²rrgp v³unc ²u tgo gno pgo 0 Ugo gnu pcr.
ugo o^auqf km pcr. ugo ugo o knqt0 ! u nř⁴ dgp hřnř vqř vřř/
hřp^anv c| c| tÃn. j qi { j qn vctqm c tgi²p{dgp. Åi {/g gn
xci {qm tci cf vvc0 C|| cn j kgi gwgo . j qi { c|²tv qřcuqo
qn cp rucp. o gtv c o x²ul k²m²p{ o gi tgpř ¶v u o křf gp
ul >>v mÃř²p cnetqm²řgl plŮ P go r qp{xctgi²p{ gl . j qi { eucm
Åi { gi { nrc^autc hřřřclco 0 G| o gi p{vi vvc nku². j kv
pgngo c ul gtgpeu²vřp0 Mř⁴dgp >>xcuqo o gi nřtf gl vgo . pgo
xqřp/g gi { o^auqf km r²ř^ap{c. o gtv c xg|²tli c| icwo ku
ul gtgp² gřřkcupk cpp{k l>v j cmqv o^at t>rc. j qi { pgo dřlc
dgx^atpk co ři o gi nrc lc0 P go . uclpqu. pgo xqrv pgnk< c|
grkgul gwr²ř^ap{ xqřvtgo gno x²pgmgi {vřřp r²ř^ap{c0

Nkř²tep{qo^auqu^am qo dcp o křf ki eucm c ul gt| v nř v

vo . cj qi { qw^a m c |^a i { co gn w. v^hp^adc o^atvqw j gi { gu
v^hmcn j qi { v^hkⁱ dgrgo^atvuc ul^hko dgo

Fg o²i o kpf ki tgo²p { ngf vgo 0 J cvm cu 3/4 ul gi gv. j Æ ul /
r gpi v v | vgo nk c dgeu^hgvgo o gi vñ n^hpcm j c xku ul cj q | | c
c | grkgul gw n^h | kcvq v ô c | kcv^aun^av. c tga^aru²tv²ngv o gi /
vctvj cdc o ci^apcn0 Ugo o k gtgf o²p { 0 | u c ul gt | o quv o^at
»t^apn^hpv hgn^h kq w. gi { tg lqddcp i qtqo d^aunqf qw²u »eu^atqrv
u co k c n^hi ul 3/4 p { dd. xcn^hu^ai i cn o gi xk^hu^a | vcvw. j qi {
o kv ul »nqm gj j gl. xci { co c j j q | c lgrgpjy gl. o kv ul »nqm
r²rf^avn c j j q |. co knqt Erctkug gnu^hexcrlc c ul Æ gm ul ko /
dqkmw j ko p w^av u^h { vx^add0 | p o kpf gj j gl pgo ul »nco
ugo o kv. i 3/4 eu^h4gp tci cul nqf vco c j j q | c | grk^an^hur qp v qo /
j q |. j qi { c tgi²p { vgn^hgu gn^hrcu^auc gn w. co^h gi { u²i gu
dgp { qo^auv pgo nerqm c itc p f k^h | w^ap hgr^hr^hgw tgo gnu^h
o t n gi { gv^hgp ul »xcnugo p { kcv^hul qo 0

X²i Æ ku greu^h i gf vgo 0 | rr gp c | qp i qpf qm^h | vco . j qi {
o gn^hkn 3/4 pi { kn^hu^ai k o »f c n^hi ngn^hgo gugdd. 2u eucm c |²tv
²ngo o²i. o gtv pgo w^hvco x^aru^hvcpk c uqm eu^ad^h» n^hi gv /
u²i n^h3/4 v. co knqt eugpi gv^hw c rqu^hv²u xcn^hu^h cl^apn^hw
euo ci qvcf qw^avpng^ho 0

Tgu^hngv n^h | | gn dqp vco hgn0 C dqrf qi u^ai »n xcn^h /
u^ai i cn gn^hlvco. co knqt nkd^hlv c dqt^hnd^h»n c | grkgul gw
n^h | kcv0

ô C i c | go dgt. o gi vctvwc c v^hun^h # ô lgi { gl v^h
o gi v^hu^hpv c hgn^hu²i go. cnk p n^hv²tg o kpf ki rctmknw
qf cñ t »nh^hi v hgn^h |²ngv0

F Æ 3/4 gp nkp v wgo 0 Ki cvqw. tgu^hngv n^h | | gn x²i ki /
ner q | vco c 68: n^h | kcv^hrf cnw. j qi { eucm^h { cp o gi xcp / g
xcn^ho gpp { k0 O gi xqn0 C dgeu^hgvgo o gi vñ n^h gi { gv^hgp i hgn^h
ngv^h ugo vgw^hno ci^apcmgo n^h m^h0

Eucm o quv xgwgo² ul tg. j qi { c dqt^hndcp gi { ngx²n ku
xcp c n^h | kcv o gn^hw0 Qrkcupk n^h | f vgo <
i Vku^h vgn^h Wtco #

W^hrcv^hcn m^hrf 3/4 xku^h c " ppgm gl v c xcec^hqv. co gn^hgv
" p j k^a 2u v^hi gw^h i vgn^h p^h » n^hv²tg dk^hqp {^atc tgo gno pgm
vctv0 | u o gtv c | go dgtk quvdcu^a i x²i vgn^h. c | v ugo vctvqo
²rr gp n^hi gv^hgp ppgm j qi { " p go kw c j kx^a p { rqt²nc
o kw n^hu² i dgguk^h 2u cnw^hpk ug w^h ngugt^hx²dgp0 Xku^hcn^h /
f 3/4. c |²tv. ki gp. h n^hi c |²tv. j qi { o gi d^hgv^hugo o ci^av
cnk gl | gn c tgw^hgp v^h nqm^a pp { cn uqtte h^hlc j^a | crpk c
nkc f »ncv. n^hu² i 2u tgo²p { n^h3/4 v0 - i { ngn^h o ci^apcn0
| p. K^hgp o gi dgeu^auqp. j ulgu gnu^apv^a i i cn x²i ki t^ai vco

o ci co cv gl gp c xki cu| vcrp 68: qrf cmrp. ul 3/4p{ a vno o cn
 n{p²txg c| 3/p i {cñ| cvqu vññ v0 Gi {gv c| qpdcp o gi hqi cf/
 vco < uqj c c| 2rgvdgp. 2tvug o gi. uqj c v³/d². v³/4v²p²m
 d^ato k 2p pgo qrxcuqm gn .. pv n gi {gvpp uqtv ugo 0 Gw n
 pgo v³i {qñ0 | u uqm ul gtgpeu²v c tgi 2p{j gl #ë
 C| cñ^a {t^a urgtu| gj k^ap{| kn0

T^a p²| vgo c dca vp o tg. cnkpgxgvgw0

ô —i {/g o quv o^at 2tvk o k²tv cf vco nk gl v c i {cñ| cvqu
 tgi 2p{vA Ogtv jc pgo cfqo nk c o gi vññ n». gl c tgo gm
 ¶ rfu . tqnqpu| gpxgu go dgt. 2rgvg x²i²ki c| v j k| k j qi { 2p
 ¶ tco c| vc dqt| cm cv0

o gpv xgrgA C| gi {km²t²u gt ugdd xqrv o kpv . fg c o^aukn
 2t²u i {gpi²ddA Xci { j qi { xcp gl A| u o k gl A| u gi {^ancrf/
 dcp ô o kv o ci {ct^a||co A ô pgo²tvwgo²p gl v c| gi²/
 ul gv0 Ugi qi {ug0 Vgi per gn w gwki 0 O kpf c f ki . co ¶ gi { cmmqt
 2ul tgx²wgp. fg o c o^at ul kpv f³/pv lgrpv u²i pgm n²wl »
 r kncpcv dcp dg pgo j q| v²mc| cul vrt c c i {Ao³eu³u²rv0

| u gl gp c v^amp cm c xqrv o c p f c t k p . h²g. o gi co gtnck
 o qi {qt>0 | u²p o gi gwgo gi { o c p f c t k p . gi { h²v c | v²p
 nkxgwgo j^atqo co gtnck o qi {qt>v0 | u o gi gwgo 0 C| v²p
 nkxgwgo Åcdd j^atqo co gtnck o qi {qt>v²u c | v ku o gi/
 gwgo 0 Fg n²4 dgp²tgl vgo . gi²ul xk²i qucp²tgl vgo . j qi {
 cppcm co kv o quv euk^anm gl gp c |²i xk²i qp ugo o k²tvgo g
 ulpeu0 C| cm c ku lqdd. o kpv c| co gtnck o qi {qt>. c h²g ku.
 c o c p f c t k p ku0 Fg²p o²i ku co gtnck o qi {qt>v gul go 0 | u
 o^at gwgo j cvqv o quv xgul go nk c o^auqf km j cvqv²u ô nk
 wflc ô v²rp nk hqi qm xgppk o²i Åcdd v²gpj cvqv0 | u
 o gi gul go 0 J qrvw c | v ku²t| go . gi²ul xk²i qucp²t| go . j qi {
 c| co gtnck o qi {qt>xcn pgo rgul gm qn{cp dqr qi . o kpv c|
 cm^axcn xci { c o c p f c t k p p c n rgwo xqpc0 O gtv gl gm v n
 pgo rgppg i {qo qt²i²ugo . fg c| co gtnck o qi {qt>»n rgul 0
 J^av cmmqt o k gl A| u cmmqt j qi { Xcp gl AO k g p p p g m c |²tvgo g.
 lqi quw^ai c. qn²u n²rgmcpko ci {ct^a| cvcA

Ngj gw²i gu xqpc gl c| t^argv. j qi { pgnco co gtnck
 o qi {qt>v ngm gppgo . j qi { gl c e²ncrp. qmncrp²u ul kpv
 v²dqn{qf qw²t²u ô gl gt ugdd rgppg. o kpv²p^a

ô I qpf qm| | wpm eucm xk²{^a| cv. i qpf qm| | wpm# ô
 v²4³ngo x²i ki gddgp c o clf pgo o gi tgp f²v r kncpcv dcp
 n²| cucp xgt gl²ng| j qo nqno cv0

| u i qpf qm| vco 0

Uelpqu. c ngi ul qo qt^add. ngi nk²dt^apf ¶ »dd. u v o qpf/
 j cvp^a < vci knw gtgf o²pp{gr0 O gtv t^al³ngo . j qi { ki gpku
 xcppcm f qri qm gddgp c ul²i {gpkxcn>cp²vj gwvgo²u go dgk
 i {³pi gu²i gm v n ul kpv j go | ugi²rgv dgp. co km o kpf. gi {v n
 gi {ki. Åxq²u Åv²ngp. c per j wul qpp²i { »t^al^apcm Åi {/
 ul »nk^ap o kpf gp r kncpcv dcp gt ugddngpm dk qp{wpcm
 o kpv²p0

O gtv pgo eucm| co gtncko qi {qt>t>nxcp kvul »0

J cpgo qwxcp r²if^avnc h²f n²f ku0

Co gn{dgp Åv²m²u Åv²m²u Åv²n0

| u²t| go . j qi { gn hqi qm n²upk0 | t| go . j qi { o^at t²i
 nk ngngw xqpc vi tcpqo c x²d n o^at qw ngngp ngppgo c
 xkmo quo gi^am^ap^an j ku j^atqo pgi {gf nkrgpenqt xcp v²n²

nq| »o Krgv —ttcn c| Cpf t^au{/Àv rgi x²i²p² u²p kw Ær³m
Dwf c rgi grgl²p. pgi {gf nkrpenqt. c nřf dcp0

! u eucm Ær³m²u Ær³m o gtv j k^adc ô c nřf gt ugdd.
o kp^{v2}p0

Xci { c fgvgn[†]xtgi²p{. o gn{gv qnkcun0 Vwf qo . j qi {
eucm nřv guj gv u²i xcp0 Xci { Rkpngtvqp Vj gqf qt c i {kmqu.
xci { Oqtcp Ugdgu²p0! u c| v ku wwf qo . j qi { pgo nřpg o gi/
p²|pk c tgi²p{ x²i²v. o gtv j ku²rr c²tv qnkcun0 . j qi { c|
wqun» rknrcvki pg wwf lco . j qi { nk c i {kmqu< Rkpngtvqp.
xci x OqtcpA Fg ô o kv eulpa ncm ô o²i ku o gi p²|go 0! u
o k²tvAO gtv c tgi²px x²i g gt ugdd. o kp^{v2}p0

Xci { o qpf lwm j qi { h[†]l c hqi co 0 O kmqt h[†]lAJ c t^aj ctc/
rqn0! u o kv eulpa ncmA O²i ku t^aj cter qn0 Fg xcp/g x^allqp
j cter pkxc» o A Pkpau0 Eucm c hqi co cv j cter qo 0! u o k²tv
j cter qo AJ qi { h[†]l/g o²i AJ qnqw gn tg wwf qo . j qi { h[†]lpk
hqi 0 J^av cmqt o k g|A Ok gppgm c o ci {ct^a|cvcA Ugo o k0
Eucmc| . j qi { c hqi co gt ugdd. o kp^{v2}p0

U Ærg^{v2}upcr k o gi nrg gv²u0 C hrgu²i go xgu| k pgn0 0 O²tv
o gi nrg gv²uA J qi { pg wwf lco < o kv ner qn0! u o kv eulpa ncmA
Pgo p{wi u|qo . co ħ c hrgu²i go o gi pgo o qpf lc. j qi {
o kv ner qn0 J c xku| qv²p xgu| gm pgnk o gi nrg gv²uv. wi {cpeucm
pgo p{wi u|qo cffki . co ħ gn pgo o qpf qo pgnk j qi {
o kv ner 0

O gi lgi {| go < v ku o gi hki {gn0 0 C hrgu²i go gv0 Cnk
r²rf^a wn pci {qp l»n wwf lc. j qi { c rqtqpi {qv c| we^atc nk^a|pk
gi²u| u²i Æi {k u| cd^a n{tgpf/gmgpgu²u tgpf tkrgi vku0! u c hrg/
u²i go ko^aflc c| ¾u| gu gm²r| grj gv gi²u| u²i Æi {k u| cd^a n{q/
nev²u vku| vrk c tgpf tv0 Fg c rqtqpi {qv o²i ku nk^a|| c0
O k²tvAO gtv c rqtqpi { gt ugdd. o kp^{v3}0

! u c nkugddkm hco 0 L³p j c| c c| kunq[†]d»f0 Dcnrf cnv qw
c l^affc. lqddqrf cnv qw c rquqn{c0! u c hco wwf lc. j qi { c
vku| xc ekr²tv fleu²tgvgv ner. c o qeunqu²tv nřj qtf l^amc u[†]ti c
h³f ki 0! u nkrgt Æj gvp² c rquqn^av0 Fg pgo # Dgrg[†]r0 O k²tvA
O gtv c rquqn{c gt ugdd. o kp^v 0

! u c| v j ku| go < kv c f qn[†] o ci {ct^a|cvc0 J qi { c| c|
Àv. co kp j crcf pwpm nmgpgg. gi {u| gt . l^atj cv». ²u| u| gt ²u
gi {gpgu0 Fg qw xcp o gmgwg c rquqn{c0! u c rquqn{c
gt ugdd0

C I [GTGMJ CUQPN'V

J cv³ tq| qwcp j cuqprf|v. cn¹ tnkn¹ to kvdgu|² r0

Qw hgm| km c dqr qi . lf tcf vcp o quqn|i » cp{wnc o gmwv
c ul epcwtkwo k nku xcu¹ i {dcp. xkf^a o cp twi fcn>f| km c r »n^a /
dcp. pci {qp gr¹ i gf gw. o gtv² rrgp o quv ncr qw vglgeun¹ v
² u lwdk¹ r0 O quv v¹ r n¹ m| qw² rgv² dgp j w| qp^{3/4} u^{1/4} u^{3/4}. co kd n
n^{1/4} pp{gp nku^a o «lj cv». j qi { j cvqf kmper qu0

Fg c| vo gi ngmj ci {pk pgnk j qi { pci {qp j cuqprf|0

Cp{ck pci {o co c c| v o qpf lc. j qi { vgrdgup c| cp{1^a tc
j cuqprf|v c o quqn|i » ul ng o co^a tc. jcd^a t cki gi {r^a t
r kj g o wcvn| km eucm c hlg dAdl^a p² u c| ku nqtqo hngvg.
fg j ku| gp pci {qp l »n wflwm j qi { c| kn¹ guo k c i {gtgnp² n
j qi { x^a nq| kn0 Xcp. cnk ul ng j clcn ul Ågv¹ m² u c| v¹ p gi² u| gp
hngvg rgu|² u xcp. cnk o gi hqtf «xc0 O clf o gi n¹ ul^a m j qi {
g| ku gi² u| gp ul ng rgu| . j ku| gp Åi { j cuqprf|v c| cp{1^a tc0

Crck pci {o co c ku o gi^a mer «lc. j qi { tgpfn¹ Ån j cuqprf|0
Fg ul gtlpv¹ c| cr1^a tc0 O kvj c eucm c| crlc n^{1/4} vg xqpc nk
O gi lgi || go . pgo wfqo . o k xcp c| qp j pgegi pk xc». j c
gi { i {gtgm qn{cp. o kvj c n^{1/4} v¹ m xqpc. fg o quv pgo gtt n
xcp ul » . j cpgo ctt »n j qi { o kn{gp euqf^a r vqucp j cuqprf|v
c| cr1^a tc0

Cp{ck pci {rcrc pgo ul »n ugo o kv. eucm vkqndcp o quq/
n{qi . o gtv pci {qp l »n go r¹ mu| km cttc. j qi { v^{1/4} r^{1/4} rvgugp
c| qpo »f ul qt «qwc^{3/4} n^{1/4} dg c ngl² v o kvv gl c i {gtgm² rrgp
Åi {^a nqw qn{cpnqt c j Ågn{mvllc. o c ku xcrc kgn j quul cdd
c tgpfgup² n² u p² || Ån o gi gl v c i {gtgnv. qn{cp gppgm c
j Ågn{mvllc ku. fg ul cncul vqwqn{cp0

Crck pci {rcrc c pci { . gt u delwu^a v eucxcti cvlc² u
^{3/4} o gn^a mer «lc o gi . j qi { c i {gtgm² rqn{ j clrc o qu c|
gt u ctej c| ctc. o kv 0 G| gm c| cuu qp{qm kv xcrc gpp{kv
c| v^a n^{1/4} m j qi { c| rg hqi nqr pk fg o gudgu|² f. pgnk dgu|² n
j gv cnk co kv cnet. pci {qp l »n wflc. j qi { gl c| gi² u|
kkl i u² i . o gtv c i {gtgm¹ k^a t »nci t^a j cuqprf|0

O kunc d^a euk c|^a n¹ v vcn¹ rlc euqf^a r vqucp j cuqprvqupcn0
C|^a nc. c| vgrdgup² p xci {qm ô o qpf lc0 | u vnkpvwgn
cttc. j qi { gl c o qpf^a u o^a t o gi rgj gv ugp t² i k nrgv . j ku| gp
ZK0 Nelqu ku o kvf ki vi {cpg| v^a n^{1/4} qwc. j qi { cu| qpi {c<
c|^a mco² p xci {qmô j^a vgdg j cv³ tq| qwcp rgj gvxcrc k0

Ucpek p² pk Åi { vcn¹ rlc. j qi { c ul^a l^a v c i {gtgm v rg
^{3/4} n^{1/4} ng0 O kw³ p r gfk c eucrf Åi { tgo² rk j qi { o² i gl gp/
n^{1/4} Ån gi {gdgv ku hqi^{3/4} n^{1/4} pk c Ucpek p² plv n j^a v pgo ul »n

ugpnk gi { ul »v ug. eucm O crk p²pk o quqn{qi i Ap{qucp. o gtv jcd^at ul gi²p{ tqmup. fg c|v c xcm ku rñ vj cvc. j qi { c| c i 3/4t³eung qw c dcn r qhkn^la p²rrgp qn{cp. o kpv c| 3/4² xqrv hlcwcnmqt^a dcp. o lgn wo²i t^apee^a crcmwvxqpc^a v0

C »i qt fci cf» 3/p²t| gwgn p²|k co knqt c i {gtgngv nk/ dqp^la m²u grxqpl^a m v rg c vcrxlk gv0 O gtv p²|| gpgm x²i ki c| gi²ul eucn^f fqp. nk^a t»nci pgnk xcp qn{cp pci { ngl g/n dc. o kpv gppgmc i {gtgnpgn0 Ct^a p{nci 0

V»pk d^a euk m^l p³ ugp c i {gtgm xcuci p{cn^ftc²u r qecn^l l^atc dAu ng. c| 3/4² 2rrgp kn{gp xqrv i {gto gmqt^a dcp. u v cn^ftnko gi p²|j gk o²i o c ku0

Qni c p²pk V»pk d^a euk hrgu² i g. pgo x²ttqnap wi {cp. fg p²||² m o gi c ppcmc i {gtgnpgm c ul go g x^ai^a u^a v. j^a v pgo euqf^a r vquA Cn^fteucm c| 3/4². ²u j cmqvc. j qi { xcp c| Ai { . j qi { c| cuu qp{nc xcrnk^g t^aeuw^a mql kn eucm c| v³ p qn{cp ku o ctcflqp. rgmgo . pci {qp ul²r ul go go xqrv² ppgngo r^ga p{mqtqo dcp. gl c| ²p rgmgo wco ku cddc dqo mqw dgrg. Ai {/g. V»pkn^f o A

V»pkn^f o Qni c p²pk vgnkpv² n^f gu h³/f dktvqn^ftc i qpfqn²u j cmi cv0

C| v³ p l³ppgm c r^atwvcp kf gi gpgn0 Hrg cp{ck^a i qp xcn» j cuqpn^u i^a tc ul exc|. hrg crcktc0 Fg xcp qn{cp ku. cnk vrdgugp Ai o gui {²ntg vgtgrkc f qni qv. o gtv ul gtlpv gl c i {gtgm gi²ul gp qn{cp. o kpv c| c| qrcu nk^a n^f r^ga p{. cnk o quv o gpv h²tlj gl 0 C| v³ p o gi wflc. j qi { c i {gtgm pgo r^ga p{. j cpgo h^kA² u nkrgp^k j qi { rctfqp. pgo c| qrcu nk^a n^f r^ga p{v cnetvc o qpfcpk j cpgo c O wuqrkpk. ²r qn{cp nqr cu| 0

C i {gtgmr gf ki eucmj cmi cvc. j cmi cvc² u j cuqpn^f0

J cuqpn^f v gi { nku n³/4²t. rktqu ul cw^a pd td n n²ul v^gw 3/4gi o clqo j ql 0

V· T· MUf P F QT

3; 26/

H P [M RG\ PGM

O kpf g| vgt²u| gvugp uqmmen ngxgugdd kf crcw v³/
v²pv. o kv co gpp{k kf crcw o quv grn qpf qo 0 C| gi²u| pgo
ngj gv²w v³/d gi { qn{cp 0 0 0 o qpf lwm j cto kpe o^auqf r gte0
C| »t^ao cv rgtu| g pgo p²|j gvgo o gi. gpp²n uqmmen lqddcp
gnxqnc^o hqi nrc. o gi c| v³p gu| go dg ugo lwqw.

C r guk F wpcr ctvq u|^amco rg c xkrco qut»n c N^apej ff
2u Gt|u²dgvj ff n³4³/w c pci { n³x²j^a|cm gn w nqtc f²n/
w³p. tci {qi » pcr u²udgp= c xkrco qu qf²dd |³4³/o d³/w u
ngj clqnc^o o gi ki c| ffcpk c ekr h | o g⁰ Hgr krcp²qm²u u| go /
dgp²|gmg| { h²p{n³r g| i²rr gn

C i²r ngtgu l²dg gi { kf gi gp Àt j wp{qtqi 0 M²v r²r²uugn
qf²dd c j q| |^avetq| » p hqi lc c nrcr l^av²u gugtp{ l²v⁰ Tgp/
f gu kf gi gpgm xcr²fk nzwu|^am²dgrk kf gi gpgm cpi qwn dgu²n
pgm i qpf qno. co gtnckcn⁰ G| gm o quv gpi go kw ngt²p{n³/
r g| pgn# C p c| gtp{ xgn t^ao o wcv²u o qpf xcrco kv. c
h²tk ngi {kv²u u| kv²p o qpf xcrco k⁰ P go wfqm cpi qwn
2t|²ugo u| gtlpvgl vdgul²n²mo gi <

ô Xki {^a||. g| c| crmdgppg xcp c n³r dgp#

ô P go dcl. j cff ngi {gp#

Gpp{kc| gi²u| 0

Cj qi { m ngwgp qw^amqwcm cdd»n i³vj cwco < nkg/
tgu²m c v³lev o ci wpcn²c F wpc 0 0 0 gi {²rr gp kpf w» j cl»
ô xk^ao v³/o gi. h³u³/i n³o²p{ ô o guu| gdd c X^atj gi { 0 0 0
wn³p dgrgukm c N^apej ff gi { fctc²lc 0 0 0 u o quv dg²r vgo c
v³ldc⁰ C hpgg gi {g o gi. k³gp 0 0 0 k³gp gn n³u| Argv²p²Ar⁰
| rr gp o quv ngn²w g| gn c ekr h | xgn ku dcl²f pgo 0 0 0
J clco gi²u| gp dk²qucp hndqt| qn²f qw xq^aucko u²v

hwqwc m nk^{3/4}u^{3/4}f vgo (00) C | gnu o q | f w r w e n c j c l c o c v
 u l o ¶ q o 0 C | v p o g i k i c | ¶ q o c u l g o Ñ x g i g o g v 0 P g o . u l g o /
 Ñ x g i i g n p g o r g u l 1 » 0 0 0 t q u u l w n k u ^a m p g n g o c u l g o Ñ x g i .
 o g i c | v p e u k m j c p e r d e p 0 0 0 N g m e r q o c | Ñ x g i g v 0 C h g n u
 | u g d g o d g v g u l g o . c | u g d n g p f o ^{3/4} 2 . n k h q i n e p f k n i p k 0 0 0
 P c o ^a t o k p f g i { . g j j g l o ^a t p k p e u k f . k p n i d d h g n g u l g o c
 n e r e r q v 0 0 0 i { 0 G n n ² u j ^a w n r g i { t ^{3/4} c n e t k o ^a l ^a v n i v
 q f c m v h g r 0 R g t u l g . o k p f g l l q d d e p o g p p g . j c x q p c r g i c n i d d
 g i { r g t e g o 0 K u v p g o . e u c m g i { r g t e (00) ² u j c g i { v Ñ i n ^{3/4}
 n e r j c v p ² m 0 0 0 v Ñ i n ^{3/4} p g o k u n g m f g j c g i { n k u k f v c f p c g l
 c | g o d g t (00) f g p g o . o ^a t p g o r g j g v 0 G i { o q | f w r v c p { c m
 n g p f j ^{3/4} u c n e d ^a v q o c n » i q o d l ^a v k u d g i q o d q n q o . n i v
 u q t q u n e d ^a v d g n Ñ n k u x e p g i { i q o d . c | v u q u g i q o d q n q o d g .
 e u Ñ p { c j c p { c i u ^a i u ² r r g p o c d g c n e t w e o 0 0 0 u c x ² i ² p
 p g o . o ² i u g o 0 F g g l v o ^a t p g o r g j g v 0 | r r g p i q o d q m u l ^a u
 n i ^{3/4} d g p n e r p c r g 0 0 0 i { x k u l q p v n e d ^a v q o g i { k m u l ^a t p { c d k /
 v q u c p r g l l g d d n i . o k p v c o ^a u k n 0 P c o k p f g i { o ^a t . j k u l g p
 o k p f g i { (00) ² u f Ñ j v j q i { p g o h g j ² t k p i g v x g w g o h g r 0 | r r g p
 o c # H g j ² t i c n i t h g r g w o ² i k u o ^a u n i p v o w e v c h g l (00) u j c
 o ² i g i { n k e u k r g k u x q p ² m u Ñ x g . c | g t u f k c | c t e q v 0 G i . u g h g j ² t
 k p i . u g n u Ñ x g p g o x c i { q m 0 0 0 ² u j k t v g r g p g o r i n g l p k n g l f g m
 c | c t e q o t e 0 G o r i n m u l g o t ^a . n i w e o o c t g i i g n d a t q w ^a m u l /
 | ^a u p ^a n o q u v j k t v g r g p g i ² u l g p v k u l v p r i v q o 0 0 0 p g o c n i f w e o
 n k o c i c o ² u c m u t c u l g o g o c r l c q n { c p ^{3/4} g i g u g p | c e u n » u 0 0 0
 k i g p . g i { k l g p u r c f v n i c r k e v e p c t e p ² | g w t ^a o c h Ñ t f /
 u l q d ^a d e p c v Ñ i n ^{3/4} d r 0 U l g o d g p ² | g w x g r g o p c i { . d w c q t q o (00)
 c j q o m n q o g r i o c i c u o ^a t . c h Ñ g o o g n u k p e u d e l . f g c u l ^a 1 .
 c u l ^a l # P g o u l g t g v g o c | k l g p u l ^a l e n e v 0 C | c n » c l e m u q m e n
 x e u c i e d d . o k p v c h g n u ² u v Ñ i n ^{3/4} i q u e p g n g t r g u l n g f k m c j g i { g u
 d q u l q t n i p { ^a p h g r g w 0 l q d d c t e q o q p g i { p c i { d e t p c u l g o ^{3/4} e u .
 o ^a t c p p { k o k p f g p v r t » d ^a n e o x g r g . f g p g o c n e t r g l ^{3/4} p p k
 q w Ñ n c p { q o q t w v ² u t q p l c c | ^{3/4} u l j c v ^a u 0 K g p . g o r i n m u l g o
 g t t g c h g l t g 0 0 0 p g o v g u l k m p g n g o 0 X q n c m o ^a t l q d d p e r l c k o
 k u 0 U j ^a t q o x c i { p ² i { j g v g p g o p { k t e v n u l w e o . p e v i { / g #
 W i { g / . j q i { v g i p e r n g n g w x q p c k f v u l c n i p e p q o t ^a . o k c |
 c l i n t e # U o q u v o g p p { k x g n p { v i q f v e d d x q p ² n # F g p g o .
 o ^a u t c j e u l p ^a n q o g l v c l i n t ^a v o ^a t v ^{3/4} d d o k p v j ^a t q o j g v g 0 O q u v
 c | v p v g u ² n # P { c m n g p f v n i ^{3/4} p k o ^a t n w u c x q n c o k u o ² v
 x k u u l c o g p p k c h Ñ t f u l q d ^a d c . Ñ i { n i ^{3/4} v g o o g i m w { c h w /
 v d e p c n i p { x u l g m t ² p { Ñ x g i ² d g d ^a o w k c . k v r i w e o o c
 o ^a u q f u l q t g l v c | c t e q v ô o g n { g v o q u v n k k u l p g m C o g t k /
 n i d c # ô g r o q u » f q w x q n v g l c | c t e ² u o ^{3/4} ^{3/4} v g c n i p { x g m

dqtf^al^av rⁱwco . O wuuqrkpk²ngvtcl|c. C| go dgt vci²f^klc.
 Rgv hk^{3/4}u| gu xgtugk Ñngm c| cteqo o^{3/4} ^{3/4}wgo o gn| ul² vhn| v c|
 cdrcm^Ñxi gi gp. o ¶i pci {l^ad»n o gi n^{3/4} ^{3/4}wgo c p{cmngpf o gv0
 N^awco c| v^ap jcto cf ul qt ku o c g| v c| cteqv. co kp v l^{3/4}wgo
 c| we^ap 000j qn ku rⁱwco g| v c| cteqvA 000ki gp. rⁱwco gi {
 xk^ai ngtgungf²u nktcnev^adcp0 Pci { v^Ñ ^Ñ a m c nktcnev dcp.
 dgp²| vgo² u rⁱwco l²rr tqhkd»n u rⁱwco c| gi² ul gv. co k o²i
 j q| l^a vctv| km c jcp{ci p{cmngpf v c n»i» ned^avq0 0 0
 u c pcf t^ai gi {knul^atc ngllgdd xcp gi { nleukxgn o kpvc o^a ukm
 ngj gvgvpgm g| gm c| ^{3/4}gn# | u x²i Ñ rⁱwco g| v c| cteqv c
 xkrc o quqp c| cdrcm^Ñxi dgp. gi² ul gp j crk^ap{cp o^{3/4} ^{3/4}wg
 ghw» j^a| cmner0 O quv ki {gm| go tgpfdgi q| pk gppgm c| cte/
 pcm c xqp^auckv. gi { eu^{3/4}r o quqn| v t^a. ¶i { 00 fg c|²tv nq/
 o qn|cp. l²thkucp. ô² u ul gt²p{ngf xg i qpf qnqo . j c o^at gi {
 dgppul Ñ^{3/4}w t^angt^Ñ c n²rtg. o k²tv²rr gp g| c i {^{3/4}pi²dd r²n²
 f^ap{ xgv f^{3/4}w gttg² u^a vhw p²j^ap{ cte go rⁱng| vgo dgp<
 g| ku l» xqpc. co c| ku l» xqpc 00 pc o kpf gi {. ²p xci {qm
 kv. j^a vki {gnq| pgo ngn0

K gp. ki {gnq| pgo ngm u dg^a n²qo o ci co 0 C dcr tq/
 hqo cv o wcvqo . ²xgmgn g| gn w c Nki gvdgp c ul knwvx^ai »
 o qpf v< Wcu^ai qf pcm c dcr tqhkc ucmmen lqdd0 Gn j^av
 c| | cn c ucmmen lqdd rtqhkr# ô U go rⁱmul go . gddgp c u^Ñ qu
 r krcpvdcp c ul knwvx^ai » j cpi l^atc. twj^a l^atc. o q| f wvckc.
 co kp v h^Ñi g wllcmmen o cvcvq w c| qm>kxcr0 0 0 go rⁱmul go c|
 gi² ul cmqtkj cpi wvctc u j qi { n²u dd tqul vnrgwo c rrcul /
 vknppdcp² u c| v o qpf vco . kf g ug l^{3/4} ^{3/4}m v^{3/4}ddgv0 Lwl. c rrcul /
 vknpp. tgwvpgv# 00 | u ki {gnq| pgo ngm ngmgo gugdd fqn/
 i qntc i qpf qpk i {qtucp. i {qtucp. o^at ncvcp c i²r² u ugo o k
 ngmgo gu pgo l w c| gul go dg 0 0 0 vxcn| gn w Crki^ap. j fg
 l» xqn# ô o qpf qo o ci co dcp0 ô Pc# Pc# Dcrvqqp0 0 0
 ô o qpf qo o ci co pcm ô p^atk ul cdcf u^aa i 0 0 0 eu>>> /
 pcm 0 0 0 ô u o wqi cvqo pgnk c dcr tqhkuo cv. gppgm c|
 co gtnckpcmu pgo l w gul go dg c ngf xgpe² vrgo . eucm hqn| /
 vqp c rrcul vknpp0

O^at n²ul ku0 C| gi² ul cpp{k kf gki vctvq w o ¶i hrgo gn/
 ngf xg c ekr | uk>tki c| ¶^aud»n ngw vj^ato cv r²rj wgo 0^at
 n²ul 0 0 0 C| gn v²tdgp^a mqm²p. o^{3/4} ^{3/4}wgo c Fwpc 00 c|
 kpf w» j c|» 00 c X^atj gi { 00 c N^apej ¶i v^Ñu» hrg 00 G| c|
 go dgt o quv grkku| gpi go c| gi² ul hkn vngteeugn gi { Ñw0
 Co gtn^Ñdc xku| gpi go 0 Cndwo l^adc tci cul v gpi go² u c|
 cndwo tc t^a ¶lc. j qi {< Gwt>r c0 | u gttg c p²j^ap{ n²rtc t^a ¶lc.
 j qi {< J qpi tlg0 Qw Ñ^{3/4}m o clf c| cndwo dcp c Fwpa xcn c

\ u>hc u²vjcl>xen c J cñu| d^auv^axen²u c rctrcogpwn
gi { ãw0 Qw ãñm o clf u j e t^ao p² | . rcrtkñu²vrgm lwpcm
gu²dg0 | u hqti cvlc c| cñdwo qv²u o ci { ct^a | | c gi { u| gt< gl
kw c F wpc0 Gddgp c u^am>dcv ñmwpm c j cto cf km go grgvgr.
j cto cf km go grgv 34 0 0 0 K gp. kw ñmwpm Dgvu{. xci { Oct/
lqkg. ô o qpf lc c p pgm cnk o quv xku| ccf lc pgnk c ñmrcqv
²u c| gugtp{ w ô Cmmqt f²nw³p. go rñm| gn o knqt²rrgp
gro gpvc xkrc o qu²u gl c| cñm l³w u| go dg 000 P² | f 000 ô
²u t^ao vgu| k c o wcvwll^a w ô u²r kf xqm0 Dk qp{0 O knqt
ku xqnv gl A ô | u o gi p² | k c| cñdwo qp c|²xu^ao qv. 3; 5: /dcp
xqnv gl. ngf xgugo 0 Fctrkpi 000 ô o qpf lc ô go rñm| gn gi {
ekl ctgvc ku xqnv qw. Ai { j²xv³m c| v ku. j qi { Fctrkpi (00 | u
gl c| go dgt l³w u| go dg xgn³pn0 G| c xkñ i j^adqt²u c xkñ i /
t²u| gm n³4³wk j^adqt² n³4³w xqm0 K gp. o^at go rñm| go
rqpvcup 000 Mkrj gvg| c| go dgt. o kAJ qnrj gvg| c| go dgtA
ô | u qf²dd ñr q| i cvc| cñdwo dcp0

U eucmwi { cp< nk xci { qmA | u j qn ngu| gnA Lcl. pgo
wf qo (00) Fg qw xci { qm c| cñdwo dcp0 | rr gp dgr²r go c
v²ldc²u t^angt²ngo c n²r rtg0 Grkkgm gpi go Co gtkñ dc0
Go rñdgl0 Gi { r kncpcvxqnv c| gi²u| 000

VCO f UKf TQP

3: ; 9/

U Xf MKVf TUCULf V: MO

C f²rk tci {qi » perqp jcmepk rgj gvgw c hqtt^auqm c ul^am» dqi ctem c lf^k 2u h³/4f k xk^a i qm²pgn²v0 Xcwo k euqf^a / r^vqu. tko wudep r^gpi gf gl ul gm h²p{j w¹o qnev t^kpi cvqw c| qtu^a i Àv hrgw. co gn¹ gl Àvdgp eukmⁱ qw gl k¹rvqu xkⁱ / dcp²u³/po ci^a xcn mep{ctqf »nev l^aul qw0 Ocfctem tgr Àv vgm p²jc ngtgul v²n telc. m²À³/pdgp c eugpf j À qw hgf gvgw h³/4f lg. o kpvgi { x²i vrgp j f¹tc0

Uqm¹ki pgo l³/4vugpn0

X²i tg c ul glngk t²ul gp gn dwmepv o²i ku gi { ul gn²t0 Tgpf gu h¹rwuk ul gn²t xq¹m f³/e³/4 vto²ul gv²u rclvqt l^au0 M²v rgtgul r^gp rgl m¹xceunc j À v0 Hgpv gi { ngtgul v²À¹xgvgw f gul m¹p v³/o³/4v u²ngn¹ À¹m fgt ugp. o »n¹tc ul À¹vgvw cte/ eci0 k¹pi g o guul kg h²j²trgw0 J ctkup{^a l^ap |³/4f gun²m ul f¹pdgp l^aul qwc uqnev vngti | ulp »t²u d²À¹ n²p j k¹fgwg. j qi { <

ô | p »h¹rnkxci {qn#

M²4³/pu²i gugp O »n¹nk^an¹pcm j f¹k^vn0 L²n dgppg²nv ko o^at c| kf dgp. fg c ul go g j wpew^ai m²lc xq¹v o²i ku²u c| cte^alc x¹co km²À³/p³/4u i {gto gnkr clm¹u^ai fgtgpi o gl glg0

©f²p²u ul crqtc o gp²udgp j clvqc crt » m¹xck0 Co kp^v nk²tv xq¹pc c ul gpwco^a uk ngtgul v¹j q| c vgv tg. n¹wc. j qi { gi { À¹h²rg o gpf gi²n gn wg c| À¹qp. o clf o gi hqft vn p²| xkuul ch¹g² u j gn¹d no gi^am0

ô Gdd n À¹o gtgu²i ngu¹ ô o qpf^v c ul²ngn¹. fg À¹ { vgw. o kp^v c o gi ugo n¹ v^a c| w¹vc0 C| qpdep c pcf^ai qu dgx^a tv c gi {^a m^a dcp c ul gn²gvu fgt² n¹ki go g¹vg n¹cr l^av0

ô L »perqv n¹k^apqm d^aeuk# ô n³/4u³/pv²u pgnk¹lmgpv c hglg ku0

ô O^atc o gi xqivô o qpfvc u|²ngn{0
 ô ©nguugp hgn d^aeuk# Ogi ngu| hkgwg ô u|»qw c|
 Àt nku² vgi gv ugp0

C u»hcrk c| qpdcp pgo ^anff³ o gi c u| ngtg. jcpgo
 gp²| gw c nqxc m hrgw. o clf o gi uwj kvqwc quqt^av ucmmqt
 ¶ { hrgn<

ô J^av³ñ³p h³nc| Àt#

C pcf^ai qu gn tghwq⁰

ô J^av^anlqp o gi cmmqt# ô o qpfvc0

ô | p o gi. j c o qpf l^am ô vgo r»| qw c| ³/₄gi u r^anff/
 vqc c nqck0

J kvrgp o gi p²| vg h²n| go o gn c| wtcv u o ci c o gmw c
 fgu n¹v u o »n¹tc i { An» u| go gmg n hgn²utg d¹¶ v³0 C pcf/
 t^ai qu xcncj qi { hrg^ai qw u pgnkj gn| gl ngf gw c| Æn fgu n¹p0
 U c o^aukm rkrp³udcp c p{grxg o^at^amqw j qi { o qpf lc<
 | p Nwn¹eu O kj^an¹ xci {qm j kxcvnd²rk go dgt Mqm| ux^atpp u
 o quv l³/₄m o gi r¹vqi cypk ³/₄gi cr^ao qv Mqtqpf qp. c| qpdcp
 rpp{gng wqn» rkrpvc dcp c u| »v. o gtv²u| txxgw. j qi { c
 u|²ngn{ ugo o kdgxgu| k0

O gpvgm o^at xcrcv k h²mkrq²vgtv u o²i gi {km ugo xcm/
 ncpqv d^at gi { u| »0 C nqxc m u| crqt^ap crt¹¶vcm c rqtqu
 Àqp. o ci c c u|²ngn{ nccivc dgn n j qi { nff¹¶fkm c| À0
 Rlnqucp p²| vg c| Ào gmw k h³/₄f gngv u c j gi {gm hrg¹ ku
 gj w{qti cqw p²j c. o kvj c c| ³/₄² xqpc gl c| gi²u| qtu^ai 0
 Fg c dgu²ffgn gi²u| gp x^atv. o gtv Ai { vcvqc. j qi { c|
 Àpcmngm| »nckgn dd0

U x²i tg eucm¹{cp h²u| ngn fpk ng| fgw c j kxcvnd²rk
 gn tgj À¹vc o ci^avgi { n¹ekvc fgu n¹p u ¶ { u| »n<

ô O ci c j qx^axcn. d^aeukA

ô | p c h³/₄f dg0J^avo ci cA

C| Àt j kvrgp ncrvc c hrgngv. fg i qpf qnc o ci^adcp.
 j qi { ku o qpf gi { pci {qv u ¶ { u| »n<

ô | p ux^alek w¹lc/g j qnxcpA

C u»hcrk pgo l³/₄v| cxctdc. jcpgo n³/₄pp{gf²p^a hrgng<

ô J qi {pg w¹p^ao. j ku| gp pnggo ku xcp gi { vgi gp{go
 qfxcn0

Nwn¹eu Àt xku| c³ñv gn ddk j gn| gv²dg t³/₄ v³/₄0 C| qp
 l^atvvc j kvrgp c| gu²v. j qi { o kv eugrngf l²n< xku| c/
 o qpf lqp xcrcv k fctcdqu u| »v. xci { o gi xguug c| go dgtv u
 ngu^anlqp c u| gn¹tt n xci { ng| flg gt u o ci qu^ap c dgu²fgv

ku—i { f³/₄v³/₄v. j qi { o ci qu^ap ng| fku ¶ { u| »n<

ô Vw¹lc d^aeuk²p Co gtn¹d»n l³/₄³/₄0 H²ngu| vgp glg ngu|

o kpi {^atv jqi { jcl>p u xqpcvq u tgr \tilde{A} i²rgp u eu>pc/
nqj u cw>p u o qvtdlekmp u nqxq u nqeuip. o kpf gi {gv
l^{3/4}3/40

C ul²ngn{ hrgo gng o wcv>wl^av u ^alvqvucp n^{3/4} dg/
xgvgw<

ô O kngt#

Nwn¹eu \tilde{A} ugo l^{3/4}w | cxctdc0 Dgppg xqiv ko o^at gi²/
ul gp c vgo r>dcu u o kpf gp gtgl²v ctte xgvgw. jqi { gnu²/
f¹lug g|vc i qtqo dc rctcu| vq0

Gi²ul vgu²dgp o q|qi pkngl f gw. cj qi { hqn{ vwc<

ô P kpeu c| Kvgppgm go dgtg. cnk cpp{k o kpf gpgp
ngtgu| v¹ro gpv xqpc. o kv²p gddgp c| wqn> v¹ gu| vgp /
dgp0 Ogtv cpp{k kf glg²rgm Co gtn¹dcp. r qpvucp cpp{k0
Vwi i {c. Ux^aled>n o gpvgo nk u wf vco o^at p²o gv¹ htcp/
ek¹wn cpi qnwn u o²i xci { v¹gn¹v xk¹i p{grxg0 U co knqt
n²tng| vgo. o²i ugo ncr vco o wpn¹v. qn{cp pgngo xcn>
o wpn¹v. \tilde{A} kv. wi i {c. jcpgo nkhqj qw j crnt>n ul gf vgo rg c
r kmgn{ gng0 Ogtv Pgy {qtm we^akv o kpf qn{cpd>n tcn¹m nk
wflc# Fg c| v¹p hcto qv xgwo. n¹tgo. n^{3/4}gn c v²pj g|. c
egptwo hgn¹. u c| qp c hcto qp xqncm dcp^apgtf mu vto gwgm
gl gto >fte c| cpcp^au| qn0 Pgo uqn¹tc dgf r vgo gi { Dcpn¹
nqo rcpkdc u xlegrtgukf gpv ngwo u c eugmu^ao n¹o o^at
ul^a| g|gt fqn¹tv o wcvqw u cmqt c|v i qpf qnc0 < gr¹i.
O k^an¹ c r²p| d n u c fleu u²i d n o quv j c| co²uu| Gwt>r^adc
u o gi xgu| gf Mtqpf qp c| ctci qpkd^ap{^av000

Kv h¹lv o²i gi {gv c x²i²tg. c| v¹p pci { ^{3/4}p²t| gwgn
ngug. jqi { o kvo qpf c ul²ngn{0

C ul²ngn{ r gfk i o gi ngpi gwq vqt^av u gi {ngf x gp eucm
gpp{ kvo qpf qw<

ô N^ao. j c| wfl²mgi {gv c| \tilde{A} #

—i { jcvqw c ul>n¹u. jqi { o²i o gi i^{3/4}p{gf gw dgf c
pcft^ai qu go dgt0 C| v¹p o q| f wcvqv vgw j kvrgp. jqi { ngu^a m/
lqp0C ul gngtgu o gi hqi v c| qpdcv ngf xgugp c nct¹a v<

ô ©n^{3/4}p eucm xgu| vgi. ô o qpf v c ô pgo n¹uuc. o kn{gp
l>n^{3/4}m \tilde{A} mgi { \tilde{A} vc| \tilde{A} v#

O gi i qpf qnc u xku| cgtgu| ngf gw c| \tilde{A} 0 —i { ²tg| vg.
jqi { hngpi gf gw x²i tg c ul²ngn{ u x^atv ku vx^addk ngf xgu
ul>n¹uck0 C u>hcrk c| qpdcv gt ugp jcmi cvq0 O¹ x²i tg
gi { m>dqi > mw^av o gi ncr qw c ul go g0 Cmqt xcrco k \tilde{A}
j^avo gi gwki qpf qrcwn¹ { ul>n<

ô N^auuc/². c| c mw{c gu| gugdd. o kvvuqmgo dgt0

ô Uo k¹tvx^a llqpAô Gngpngl gwc j kxcvnd² nk0

ô C| gi {2d o gmgw c|2tv ku. o gtv eucm cmqt wi cv. j c
u| ãm²i 0

Eucm o quv xgwg ²u|tg c pcftª i qu. j qi { o gpp{ktg tª hg/
mãfvgu|²xgnc u|²ngn(0

ô Vqxª dd pg hqn(wcuwn# ô clª pmqwc0

ô P gngo pgo ku j cu| qp (00 ô u| Àtc o gi o gi kp v
c| ¾gi 0

Cj qi { c nªkgvng| hcnwdc ²tvgm u gi { u|²r vª ¾v
o gp{geung u| go dgl¾vwxgn m j wp{qtªqwuª { u| »n<

ô L» xqpc nª4 tgxgppk000

ô O gn(kmhgrkxªrcu| vcpª Aô nªtf gl vgc u|²ngn(0

ô | p c dcn0

ô Cmqt ²r r gp l». o gtv²p c lqddkmhgr² v u| gtgvo 0

ô P go uqnev²tpg x²rg0

ô | p wf qo. j qi { uqnev. o gtv cppcm vknv xcp ô
j wp{qtªqwc u|²ngn(0

Nwnª eu Àt ku vcpwª nqp{ ngwgi { dg0

ô O kc vknvAô j clmqwnª4 grdd0

ô Cppcm c| ²r r gp. ô dgu|²ng c u»hcnk ô j qi { c
hgj²tp²r c| Kvgppgm c| c| gi {gvng vgtgo vo²p{g. co gn(kn
pgmc lqddkmhgrg pgo lqddt»nxcv. j cpgo gi {gdãw000

Gv oªt pci {dcp j gn(gung c| Àh²rg ku0 U v c hcnw
x²i²ki gi {gv o wcvqw telvc0 Kv c| qpdcv xcw k | cli »
ngi²p{ng/eucrcvq ²tvgm d² c u| gnªttgn0 C u|²ngn(o gi ku
qkvcuc ngvu c| vo qpf v<

ô Vk gpjª tqo 0

ô Grª i xqpc gi { jª | j q| ô dctª vnu| qwc oª ukn0

C| ¾gi c| qpdcv pgo ku j cmqwc vrf p0 I qpf qm u| qw
Àtc0 Oclf c| quqtp{gngv o ci c cñ euª vgw u f qjª p{v
xgw grª. j qi { u| kxctcv ukkugp0 P {wi qf vcp nkª tv. coª
hAvtg ner j cvqwu cmqtª { u| »n<

ô O gn(km vª/dd. nª o qpf lc o gi <vk gpjª tqo cuu| qp{/².
xci { vk gpjª tqo ngi²p{ngA

ô Vk gpjª tqo cuu| qp{ ô hgrng Nwnª eu Àt p{qo cv² mner0
C u|²ngn(ku gl venetv o qpf cpku c|²tvgi { nkukv

kpi gtngf xg nªtf gl vgc<

ô Uo²tvA

ô C|²tv. ô hgrnv c j kxcvrd²rk ô o gtv c vk gpjª tqo
cuu| qp{ nª4 ãn gi {/ngw dk qp{qucp i {gto gngv ku j qtf q|
o ciª dcp u²p c| qnevku u|ª oª qo 0

ô Mgl f c| gu| g o gi l pk ô o qpf v o ciª dcp c u|²ngn(.
f g j c gi {gpugp dgª u| cnf. Ài { ku vªddgv cnetv wf pl0

ô | p pgo c| v o qpf cp^a o . ô ul »nv p² o k hqpvni c^v u
w^a p. ô j cpgo c| v j qi { v^k gpj^a tqo ngi² p{ ng o² i ku v⁴ dd0

ô J qi { o ci { ct^a | | cAô² tf gm f^{3/4} wc pcf t^a i qu0

ô G| v c| ki c| u^a i o ci { ct^a | | c. o gtv p². ul^a o ¶uc eucm
o gi < c v^k gpj^a tqo ngi² p{ n⁷ pgm xcp v^k gpj^a tqo vguv u
v^k gpj^a tqo nmg. c| guu| gup j wul qpj c⁰ C v^k gpj^a tqo cu| /
ul qp{ pcm r gf ki xcp v^k gpj^a tqo ki c| k vguv. fg eucm gi { gv² p
gi { nmg0

ô U c| c| gi { o gn{ kn⁷ c v^k gpj^a tqo n⁷4 ãAô n⁷ tf g| v²
Nwn⁷ eu ã0

ô C| gi { kn⁷ ugo . j cpgo c| 3/4 f^{3/4} 2 ô lgrpvvgw nk c
ul² ngn0

G| v c| gi { i { | gm gv pgo d^a pvc c j kxcvnd² rk ugo .
o gtv nkrpeul gt xqnv² gv² dgp tgo² p{ v² g² p² ãn ul gtm gu0 V^{3/4} dd
o kp v gi { nk⁷ qo² vgtv n⁷ p² eqi qw tclv0 C m⁷ q² xgvv eucm² ul tg.
j qi { n⁷4 g² gf pgm M⁷ q² p² h⁷ n⁷. cj qn ngul^a m u x² i g00 quv pci {
ngf xg xqnv j k v² g² p² Tgr ãpk xci { ngi c¹ dd l^a ul cpk ul g² v² gv
xqpc0 Xk⁷ u^a n⁷ f² qw ku. j qi { o kv v² j v² p² x² i g| gv ã0 Gi { /
ul gttg xleegu 3/4 gv² v² o cf < nk⁷ clqv c ul gn⁷ td n o clf
k⁷ gf v² p xkuu| cner v o ci^a v u nkd^a n⁷ pkn⁷ f v² <

ô J » d^a euk j » # Mkenet gupke ngt² n#

C| 3/4 gi n⁷ hqi v n⁷ xckv t^{3/4} v^{3/4} p. nkwi tqw c ul gn⁷ td n c
p { gr² xg j gi {² p gi { n⁷ tqo n⁷ f^a ucn c o^a ukm q² f c² c ngt ãn
fg qwo gi ãn⁷4 xg ¶ { ul » n⁷ whnc| ãt p² c n

ô J kul gp pgo kucnet n⁷ gupk#

ô C| cnet p² c. ô o qpf v Nwn⁷ eu ã ô eucm c ngt² m²
ul gi pgo gpi gf i0

C| 3/4 gi pci { qv p { gm. j qi { kn⁷ gp ukngt gupg o gi xleegn²
gi { pcf t^a i qu0 Fg pgo ul »nv j cpgo hgn ãn u d² t^a w^a i qucp
j clvcpk ng| fgw0 Vkn⁷ up c| qpdep dquu| ãv hqtten u gi { ul gt
o gi euk² p² v c ul go g. lgr² x² p. j qi { < o kpi {^a tv o gi ul gpxg/
f gf. v² n⁷ w² wunk^a n⁷ #

M⁷4 dgp dg² t² v² mc hcnwu eugpf gupg | 3/4 3/4 vgmvx c0

ô Cpp^a nc j ¶ p^a n⁷ gu^a n⁷ m² ô o qpf v Nwn⁷ eu ã0

ô O gn{ kn² nA

ô Gpp² n p² #

O k² g n⁷ o qpf v xqpc. l > v j ã qw c n⁷ x² c² c ul² ngn{ u c
ul gn⁷ t j^a p { pkn⁷ f v² ugdgup c h² t^a v0

ô f n⁷ lqp o gi # ô nk^a n⁷ qvc Nwn⁷ eu ã0

Fg c| 3/4 gi o² i lqddcp ul cdpk ng| f v² c n⁷ xcn² v u nk c
hcnw > n u r qtq| vcm xgu| gw ãn hgn c| ãv p0 U n⁷4 dgp qf ctgeu/
eugpvvgw c ul » <

ô P²||g c ngtgngv c| Àt. rfo. pgo cnet/2 nkgupk#
Gi {gvgp hw⁹udcp ²tvgm c hcnwde u qw gi { j^a| gn w
ng^anffqwc nqxcvc u|²ngn{ u pci { qvu| wuu| cpwxc ¶| { u| »n<

ô P q. j c| cl³k²pmj^a rkgppgn#

C pcf t^a i qu ngwi tqwu cte^a d»nnkngrkg qtf ¶|qwc<

ô F kul p»u^a i # ~i { grk^a i wcpkc| go dggtgr#

UÀcdd p{qo cv²mnenj q| |^avgwg<

ô | p Nwn^aeu O kj^an{ xci {qm wi i {c o gi # C nqtqpfk
Nwn^aeu R²vgtpgmc hkc. wi i {c o gi #

C u|²ngn{ t^ap²| gw o gtgf vgp. o clf c hgl²v xcnetpk
ng| f vg0

ô C v | n^api lc xguug hgn j kul gp c| c Nwn^aeu R²vgt c|
²p wqpn^av^ao 0

O gi rcr quqf vcm o kpf c ngwgp0 C| v^ap c| ³/₄gi o gi hqtf ¶|
vwvc u| gngt²vu ¶| { u| »n<

ô Lgtg geu²o. ãrl hgnu j c| cxkul rgn0

Nwn^aeu Àt c ncrcl^av xgtvg c rclvqt^aj q|. Ài { t³/₄ ³/₄ ³/₄w0
Gnj gn{ gl ngf vgm o gi kp0

ô J^avj qpp²v l³/₄au| geu²o Aô n^atf g| vg c| ³/₄gi 0

ô | p Mqm| ux^att»r0J^avo ci c. d^av^ao A

ô | p xcrc o k u»v u|^anffv²m Wf xctj gn{tg u l»n hgm²ti g/
u¶|g c dqmqu0

Gi { nqteuo c gn wo gi^amcmc nqxcn0C u|²ngn{ ngul^anqw0

ô Lgtg geu²o u ki { wpm o gi gi { rktgv gttg c v^atuqu/
l^av^antc#

Dgo gpvgmu ngi²p{ gugg gm^anqwc o ci^avc| ³/₄gi <

ô J². gi { rktgvc lqddknd»r#

C| gnu euknci rgnœci qwc U»xkf²ntg0

C i { gto gngmko^af nq| vcmc hcnwdep0

*Mqm| ux^atv. 3; 4: +

.. TF.. I Xf NVQ\ f UEU\MDCP

Xercu gn{ km hctucpi qp Eu{nu| gpvo kj^an{qpo o gi dleunf| v³m
c| 3/4f 3/4 3/4< o gi j crvc| qpo »f Àrci u cpi { cnrgwdgn rg0

ˆi { qu| v³p gi²u| Eu{m 3/4f 3/4 p²mÀn o ctcfv. co k o²i ku
uwc^a ncr qvgi { kn{ gp j {gu qtu|^ai dcp0

L^ao dqt cv^ao hck wf x^ap. j qi { ug^vvu| p f qri qndcp
o kpf ki i qpf lc xcp c| —tpcm c MÀmÀm u c| Qrv xk²ntg.
c r »v³udcp pci { qp j kvgm u pgo j k^adc0 Ogtv v³4v³pv
j qi { gi { j cxcu xkj ct w³p o ci^aj q| tgpfgng c I qpf xkugn
u| gpvJ cdcnvnqv u| { u| »nvpgnkj kf gi gp<

ô f n{uf gr^o F w wo »x0

F w wo » c rgi j {gugdd 3/4f 3/4 xqrv u u| gthrgw grxgp/
x²t . j ku| gp j {g l^atv c| gi²u| rqnqndcp. j qi { u|²r hrgu²i²v
nk tÀwn gi { x^ao qucn o gi eucnc. eu>²tc xgvng| vgw u dgr/
3/4ng c U| gpvCpcc/wdc0

ô U| qri^a rvtc dgqu| vqwrnm u Eu{hqtu|^ai dcp rgu| gn j cr
ri ô tgpfgng pgnkc| —t0

ô Pci {qp l>n xcp ô o qpfvc c| 3/4f 3/4 u p{qo dcp
dgru| qnqv c| tdg u o kv gi { hngvg o ceunc. hru Eu{ndcp
vnr tc gugw c h³4f 3/4p0 Xgwg c| k^ap{v o kpi {^atv O cfctcu hgr
u cj qi { l>tgi i grtg c x²i kdg²tv. j^av gi { euqpvqu^a dt^a| cvÀ
u|²ng{ l u| go dg x²rg0 U| Àt »ucp gi {o^autc p²| vgm u vx^add
o gpvgm j cpgo ki gp hrv pvgm gi {o^aupcm u pgo wf v³m
o gi^a mcpk j qi { p²j^ap{ r²ut nxku| c pg p²|| gpgn0

C| 3/4f 3/4 gnki {qtqf qw c u|²ng{ euÀh^ai pcm xgwg u
dgr n³4/4x0

ô Igtg xku|^a ddcuenc. vg twup{c d²nc#

ô J gj g ô nœci qw F w wo » u o^at vngi gwg u| t³u
r³ dckvcttchgr²0

ô Go dgt xci {/2. xcl o k c ngeungd²ncA ô n³tf g| v
c u|²ng{0

ô .. to²p xci {qmô j c| wf qwc euÀt0

ô Dk{qp{qucp c hÀut n l³u| ô euÀtqpf^atqunqf qw c
o^aukn0

ô l p l³k³4m u vg j qxc o²u| kn{ gp²ngugpA ô hrgrv
v³o 3/4vgp c| 3/4f 3/4 0

ô I { »ppk kpf wf³m u pgnf ugo^a tvpc. j c dgu f ku
kn{ gp kgu v 0

ô Igtg j^a# ô^a mqv t^a c txcu| ô u o^at crt{qvc m
c euknqi » j cxqp0

C u|²ng{ eucm r knqi vxqv ctte j wp{qtk h²nu| go²xgn u

o qpfqi cwc o ci^a dcp< pq. p²|| qf c. gl c| ¾o²p o gtgldgp
qn{cp. o kpvgi { ncp ¾f¾ 0

ô J kul gf/2 c| kf xgu²i gvA ô n²tf gl v^g c vgo rmo gn w
c| ¾f¾ 0

ô J qi { c d²m²dc pg j kpp²o. v²p cx²i d n tqo m²wco
kf g0

ô | p pgo j kul go ô gmgpng| gwc o^a ukn0

ô J g^adc kuj kpp²f. Ai { ugo kf xgl An| 0

ô J c cnetp^a o. ki gp0

ô Dk c pgo. o gtv j c kn{gpgmgn v²ngp²m o gi c o gpp{/
qtul^a i qv. cmqt pgo j p^a mAi { 0

ô J^a vj qi { A

ô | l qtul^a i 0

C| ¾f¾ o^a t n²wc. j qi { dclqu fqi c ngu| gl| gnc ul² ngn{/
n{gn c|²tv dqmpf wn t^a| pk ngl f v^g c hgl²v. j qi { ht kuuAn²¾p c|
gul g0

ô O kveuk^a n| Aô n²tf gl v^a o wxc c o cfctuk0

ô O gngi gv hglngu| vgn0

ô Dqmpf ku xci { . n² vqo 0

ô J^a v vgo kxci { A

ô | p ul² ngn| xci { qn0

ô J wpp/gtgf²m Ai {/gA ô mæeci qw wf qo^a p{c o gn/
ngwc| ¾f¾ 0

ô P go o gtgf gm j cpgo go dgt. v^g dqmpf 0

C ul gpvgnx² p²no gi o^a tvqc c| wl^a vc eu²nkgo dgt0

ô Cuf dgr² v^g ku#ô vcp^a euqnc v² tu^a pcn0

ô | p pgo wf qmAn| pkô j A » f q| qwc i qpqu| 0

ô O qpf ul c c rcr pem o gt gi {ul gtldg o gi vcp²0
C i { » pvc» ul² mgn wgi { gl ngl pkn² f vgn0

ô O gpl v^g gn dd#ô o qpf vc c ul² ngn{ 0

ô O gpp²m fg xk² ui^a rcr vcp o² i c rmgno 0

ô P qj^a v n²uu pgnk# ô dk vwc c| cv{chk u c| | cn dgo gpv
c ul gpvknvA hAn²dg0 Uqn²ki uwwqi ven0 C| ¾f¾ j gi { gl v^g
c hAn² u j cmqc l»n co kpv c rcr nqtj qrlc c ul² ngn{ v u c
rgnk²g n²ak j qi { c hngu² i kp n²fxAn c v²ddk cuu| qp{go dgtv n
h²tj gugp gn0

ô Hqi cfqo c lqddw²uv ô hgl| v^g dg x²i tg. ^a j kcvqucp
l¾w. fg pgo wf v^g o gi vi cfpk o ci^a v u c| ¾f¾ o gmw
j^a v tchgr² dleegpv²wc hgl²xgn<

ô | r r gp l»ngf xkldgp ncr qf 0

F w wo » ku dguqo rqn{i qw. fg » xcqu^a i d»n cte^a v vgp{g/
t²xgn j qn vj gw. hgl| v^g. pgj qi { t^a kuo gtlgp c r cr 0

- ô P go wf qmi { »ppkô ngl f vg ngtgnp0
 ô Okv dgu|²nA ô ngr f^{3/4}v o gi c o cfctcuk r cr u^avmwñ
 nkpqwc t^aeuqp0 ~i { ku p²|vg. Ài { ku p²|vg c hteuc go dgtv<
 xcrc0 kx²p ul²p²i gv . i qpf qnc u o^at ul gnff gdd rgv0
 ô M^atqo nqf qw²Aô ngl f vg0
 ô P go²p0
 ô D l^{3/4}v²A
 ô K gp²p0
 ô Hclvcrp xqn²A
 ô X²p xci {qn0
 ô Xcrc0 kveucmx²vgwA
 C|^{3/4}f^{3/4} rgu^{3/4}v²g c hgl²v o lqvj c pci { d pg xqpc0
 ô V^ap xcrcnkvo gi^{3/4}g nqpf A#
 ô Ul gi²p {^{3/4}o²p { xci {qm go dgtv pgo^{3/4}m ô j^at¶
 vqvc gnc pgj²| n²tf²uv0
 ô J c pgo d p^{3/4}u o²tv l^{3/4}vkf gA
 ô C| cpi {crqncvdqu| cpvqwo uqul qt.
 ô G| vpgo²tvgo 0
 ô Cmqt plpvu gi {²d0
 X²i tg nki {gl vgm u¶ { gtgu| vgw gnc r cr <
 ô Mqpf c| gnu cpi {cn Eu¶ndcp. o gplgp Kvgp j ¶kxgr#
 F g xcrc0 kvo qpf qnc o^aeeqt o qufl²mo gi . j c i { »ppkl 0
 X¶ cp l^{3/4}v c|^{3/4}f^{3/4} . j ku| gp o^at wf vc. o kxgn ngm n¶l²t/
 vpk c o cfctcuk go dgtv< euw c hgl²tp²rrgn u pgo gi {²ddgr0
 O gi^a mvc ul²ngn { gn wu f leugn²pkng| f gw<
 ô M^atf gl f o gi c r cr qv. o kxci {qm²p#
 ô J^avo kxci {A
 ô J^av²p xci {qmc| gnu cpi {cn Eu¶ndcp0
 ô Tci {qi ul gu c| qpo »f wri 0
 ô P go Auo gtgmo »n²#ô wtcunqf qwvx^a dd0
 ô Lgtg u pg^ai^arl. j cpgo rgi { Ñpm gn ul gtgvwvgr0
 M^{3/4}v²gm c vgo r nqo d »n u c P go gtg ul go dg eucr vc xgr^{3/4}m
 c j excv0 C o cfctcuk go dgt h^{3/4}tg j Ñ vc ucr n²l^av u o gpv²m
 ul »vcrp0
 X²i Ñn o²i ugo wf vc o gi^ampk c ul²ngn { . j qi { gi {gv
 o^auvul »x^a pg vgi {gp0
 ô Ok²p ul t^{3/4}u xci {#ô ngl f vg0
 ô L »nhqi c j kf gi dgp0
 ô ~i { l^{3/4}v²nc xkr²i tcA
 ô ~i {0
 ô Dqt| cu| »0
 ô Okdqt| cu| »A

ô Dgtgw^a rpk^v i gf gv0
 C| v̂ p Alt<
 ô U c txcf ku xcp. o kpv^a nwpmc dlj cpcn0
 ô P cnf ku xcp. eucmdghr² p wc hglgf dgp0
 ô Dgu² f pgmo gi l^a t0
 ô J c pgo j ku gf. p² | guf o gi c f qmqtqmmen0
 ô Qmqu xci { . o kpv c j gpi gtgf m 0
 Vqx^a dd o gi kpvng| f vg c u² ngn<
 ô Hctnef ku xcp. o kpv c dcm² p { Åpcn0
 ô G| p^a rco c dctqo² vgt0
 ô Cmmqt eucn² u. o gtvc| plpeu gi { o² vgt0
 ô Vg o gi j^a dqtqf^v r0
 ô J qn² u| xcp. qwc j^a dqtqf^a u0
 K o^a t ngl f gwgm ¾u| go grgi gf pl0 C| ¾f¾ pgm ki gp
 vgu| gw gl c u² ngn| u hngwg o ci^a dcp. j qi { c f f ki pgo
 v̂ i ¶vo gm rg. o ¶| o gi pgo n¶² tku nkpgo vcpwlc gi² u| gp
 C u| ¾p { j kf gi dgp u t p h²vc o ctn² v c u² ngn| u
 f¾| u¾ng ¾u| g wlck0
 ô O² i Ai { l^a tqm o kpv c netel hcrk rgi² p ô o ci { ct^a | v
 n¾ dgp0
 ô O gi kpv n¾ngu|. n² u| km j qi { u² ngn| xci { 0
 ô G| vku vki c| 0
 ô Okki c| A
 ô J^a v c|. j qi { c netel hcrk rgi² p { ¾u| ghci { qw xqr
 xcrcnkxgr0
 ô MxgrA
 ô P g x² vng| |² n p»# ô o gtv eucm c| wlck hci {^a pcm
 n² | kj g| 0
 *Rgf ki eucmi { cp n¾¾w c u² ngn|. o gtv Ai { cpp { k v̂ /
 v̂ pv. j qi { eu¶ u² llgn u| gtgv lg j »pc cr² f wi v n² v ngl² v c
 rgi² p { . u² r gp qw hnglvwg u co k wlc j gi { gkd n v² rgn n
 nki² u| qw. c| vxgw gneuv^a p c j kf gi 0
 Co kpv lcx^a dcp o gpvgm c| ¾f¾ gi { u| gt o gi^a mv gi {
 nqeuo c gn w0
 ô | p kf g dgo gi { gmo grgi ¶v tg0
 ô Mgl f gu| gf rppk ô j gn gugng c u² ngn| u dghq /
 f wncmug² p { gp0
 Dgpv u² r o gp { geung hqi cf v< xcrcj qi { xqr. fg o^a t c
 n² v̂ uc ku n¶^a pu^a i xqn0
 ô J ql^a nhqf qto kpv^v u# ô tgp f gmgl gwc u² ngn| 0
 ô C| ¾f¾ c f f ki hqpf qtnqf qw. o ¶| i { »p» / v̂ tu^a v
 j gn { dgp n¶² tv² utg u^a pv u xcrco kv vgw n² vcrpwn fg² i /

pk ngl f gw c| cuu| qp{ ku. o kpv c| grgxgp u|²p. h^Àv c u|²/
ngn{v ngt^Àng. xcrc o k Ài { i {^{3/4}^{3/4}vg0 Gi {u| gt c| v^Àp qf c/
uÀi vc<

ô L^{3/4}1^{3/4}pu| g w^Àpco #

ô Hqti »ucwc (0) ô euqf^amq| qw c| go dgt. fg o gpv
ugdugp u cj qngw pygm c u| qdc clvl^a vo ci wntc ku|^atv^Àn0

ô J co ct qf cwi tqw c| ^{3/4}f^{3/4} u h^Ànu| go²v c mwreun{wn^À
j q| w^Àn^Àncwc. j qi { r^Àuqp ku o kpf gpv0

ô U^À Xgo /ngmgo. go dgtgo # ô ngl fvg o gngi gp c
o gp{geung0

ô C u|²ngn{ vgo r»| qw. o kpvj c pgo²tv^Àg² c fqi qv<

ô J c dvgi xci {. h w dwt^Àppcm ngxkv kff (0)

C o gp{geung c x^a n^Àtc gugw<

ô D^at pg hqi p^a o²i kn{gp j gn| gvdgp ku c eu^Àh^ai 0 0 0
²f gu gi i {go 000

ô Gt u^À Æ # ô r^{3/4}hgu| nfgw c eu^Ànk go dgt. fg²tg| vg.
j qi { xcrc o k ngu|. o gtvpgo p{wi j cvkmc| x²tg ug o^at0

C| cuu| qp{ ngt^Àri gwv vx^a dd nki { Àvctecn<

ô Lcl. pgo w^Àf qo o k nrg. fg u| gtguugp nrgpf. cj qi {
i { |k00#

Ungl fvg i { |pkc u|²ngn{0

C| ^{3/4}f^{3/4} n^À| cucp k^Ài gw/o q| i qw c mwreun{wmp^an u hgn/
kpf wncp u| k^Àv o ci^av j qi { qf ccf^a g| v c ft^ai c cuu| qp{v u
vgj gvgwgp k^Ài cnqo o cno qpf qi cwc<

ô O²i kuecm v^Àld gu| g xcp c o cfctcuk u|²ngn{pgm 0 0 0
O knqt c| cv{chk xku| cl^{3/4}v c| cu| vcrj|. gt u r^À 2ⁱ gw
cte^ap² u uqo qn^Ài qw²f gugp. o kpv c i {gto gm cnk v^Àqndcp
o²| gvgxgv0

ô N^api qnc| cte^af #ô e²ñ qwc| ^{3/4}f^{3/4} 0

ô V^À gvgx²mô n^{3/4}n^{3/4}vc o^aukn0

ô Lgtg. o gtvo gi i { Ànc j^a | 0

Mk^{3/4}vgmu o gpf gi²ngmu| »wcpw0

C o cfctcukgo dgt o gi^amqwj^a| c ncr wlc gn w0

ô J c| cl^{3/4}k²pm ^{3/4}o²p vguw²t0

ô O »f quj^a| cf xci {qp. j cmqf /² A#

ô O kd nu j qnrj gvgw0©i {gng| vgo 0ô

C| ^{3/4}f^{3/4} go gni gvg j gn{dgp c n^Àdckv| cr qt^ap<

ô C j kf gi o kpi {^atvo gi xgu| gp0

ô Lgtg d² u h w^{3/4}|²no gi. dct^aw^ai xcno qpf qo 0

ô M^{3/4}u| ^{3/4}pgwgn hqi cf qo. ô^amqwt^a c eucitc. o gtv²rr gp
g| vcnctvc0

O knqt dgr²vgm c| cuu| qp{ gi { n^{3/4}p{xgv n^Àpq| qw fg

co kp̄v o gi r̄w c twup{c ¾f¾¾¾w. p{qo dcp ngglvgwg ucl^av
^an̄ xcngi {Ãw0

ô C| ¾o²p elo dqt^ao. gi {Ãw vku w̄r̄pm ô cl^apnc
 dg c| wtc0

C| ¾f¾ grxgpgp xkugmgf gw. n̄eci qw ku hq̄vqp c|
 cuu| qp{tc. nko^at^an̄j cwc vgi²u| gp0

ô Hgl²tp²rpgm xcn̄ go dgt gl c| ¾o²p ô iqo fqnc c
 ul²n̄gn{ uo gr̄gi ctexqp^auqm̄n̄Ãw0

ô Hqi {qi cv² o ci kn̄^an c n̄quvA ô²tf gm f¾w c|
 cuu| qp{0

ô U²rxk̄ gp o²i l̄eun̄p xcp. gi {kn̄qftqo p̄nḡo ku
 v̄rk̄o^ai ô h̄gr̄gi gw̄g c| ¾f¾¾ qn̄{cp rqp̄ucp. o k̄vj c Euf̄n̄
 pcmo k̄pf gp u| gi /kn̄^avkuo gtp²0

C j cpi w̄cv j co ct o gr̄gi gf gw0 C| ¾f¾¾ o gi ¾gng c
 ul²n̄gn{v o k̄vj c pci { u| gtgv̄tg i {w̄mfqw xq̄pc k^apvc u
 cffki u^Àn̄>fqw n̄pgvgugp j q|^a. co ¶̄ r²p| gu| ceun̄l^av
 n̄ko gr̄ng0

M̄u dd c| cuu| qp{ h̄r̄tgū»n̄{qwc c| w^av u l̄xcuqnc.
 j qi { l̄»¶̄ xgp̄f²i ãngvpg gtguu²m̄gnul^atc| qp0

ô Dk̄ c ãi { xcp u x^atu| c< kv c r²p| u j q| n̄v²xgi
 dqt#0 F g co k̄pvc r²p| g w̄p p { ãn̄ c u| cxc o gi^am̄w0

ô Okv̄n̄ r̄ n̄gp̄f gvA

ô Guu²f ãr̄m g pci { o gr̄gi dgp. ô n̄xgi tg# ô n̄xg/
 i tg# ô j q| qo c dqtv ku 000 ô k̄co qf̄qw gn̄ c ul²n̄gn{ u
 h̄w̄^adcp o qpf̄qi cwc<

ô J²v v̄k̄ gu d̄cpi » x̄cn̄ 000 xci { v̄p p{q̄n̄ ku 000 c
 o gp{geung n̄rc o gi p{kn̄^ap 000

M̄¾ dgp c| ¾f¾¾ n̄r̄| j gl xgv̄g qvj qp c| cuu| qp{v0 *Cnk̄
 kn̄{gp eu^Àp{c. n̄gi {gp cn̄t c h̄¾f̄k go dgt ku. ²tk̄ gppgm o »f/
 l^av000+

C n̄qeu^adcp ū¶̄pk̄ n̄g| f gw c o gp{geung. j qi { ¶̄ { pgo
 n̄w̄c u ãi { pgo n̄w̄c c r²p| vu u| gf̄vg c uqm^aw̄qvo ci^atc0

P go v̄ku c f̄q̄m̄i ô r̄wuo qi qw c ul²n̄gn{ u j k̄gr̄dg n̄v
 ãxgi dqtvx²xg. o k̄gno gi k̄pf w̄w̄n̄t̄xcn̄q̄wcp xkuu| c0

ô Xci { c| ¾o²p{ eu^Àq̄nc o gi ô h̄w̄qw gttg c| gu| g u
 co kp̄v j^a|^av gr̄t̄vg. n̄r̄xc c| cd̄rcm̄ cn̄ eu^Àu| v̄v̄qw. j qi {
 x^allqp pgo ul^ao q̄rc/2 f̄wi xc c r²p| vc v̄q̄nc̄l0

ô ¾ M̄ku| wu. j^av j ci {qf̄ gl # ô o gtgu| v̄wg n̄v
 j w̄p{qtk u| go²v. fg j k̄ dc o k̄pf gp. o gtv̄ eucm̄ c| v̄ n̄w̄c o²i ku.
 co kv c j k̄gu^atuc u c| ¾o²p{ gr̄i ul²i {gp̄v̄rgo ãn̄ h̄q̄n̄ v̄w̄cm̄
 dgp0

ô Oclf o gi qtxqūno n̄gv gi {gp̄n̄kp̄v ô v̄txgl v̄g j k̄/

vgř p u c| clw» gn w uwr qi vcpk ngl f vg ř dckv j qi { xgi {2m
2u| tg u 3/4mugpgma tvcxp a dt a| cvq0

.. n3/4vgmku gi 2u| j kd a vcpw0

C| v a p kv m c dqtv i { nv c ngf xAm u n3/4u| 3/pi gwgm gi {/
o a utc0

Ugi ¶ugp c l2| wu. 3/4o 2p u»i qt#

ô J a| cf vku| vgn lg xci {qm vgux2t0

D a t p 2 o ki App{cn fg hrgu2 i 2 vku d¶| vwc c u| 2 ngn{ <

ô K { a n u| 2 r xlkrcu| a ř#

C x 2 i ghgr 2 u| »nv c u| 2 ngn{ <

ô f vA3/4o o ci co qv c u| qo u| 2 f hcnwdc0 ô Cmnqt c|

3/4f 3/4 j 3/4 hqtf vwx<

ô lgt xgrgo . u»i qt#

ô J qi {pg o gpp2 n#

Grpf wncmc h p { n j cxqp0

ô U| gtgwgf /2 p a nwpmAô n ř tf gl v g c eu¶nkgo dgt0

ô O grgi . vku| v j a| v a l ô a lvcqunqf qwc o a ukn0

ô L». j qi { j q| 2 mgi { nkeukdqtv000

ô O ¶| qf cxqm a n gi {gvf leu2 tvc hrgu2 i gf0

Gttg o a t c o 2 tgi grhwqwc c u| 2 ngn{ < ř dckv u| 2 llgn/

xgvgwg u o glldgncr v c| 3/4f 3/4 3/40

ô O gi j » v ř# ô o qpf v c u| kn a| » u| go gmgri0

ô L»¶| go dgt xci { ô eukrcr ¶| qwc c| 3/4f 3/4 0

ô Mgm 2 o 2 i c o a u hrgu2 i gA#ô u xgwg c dleuni l a v0

ô U j a vpgngf c| gp {2 o A

ô P go gu ř wco . vg r 2 ř c 3/4o 2 p0

ô J a v c nqteuo a dcpA#

ô U c| c v d 2 f x»vA

ô | r r gp c| gp {2 o u pg vgf f o ci cf#

ô Cmnqt xku| ccf vcf. uwxcl o gi 000 ô eugpf gugf gw
gnc u| 2 ngn{0

O gi kpf wncmkuo 2 vd 2 n ř xgr0

J cpgo c o cfetcuk go dgt o 2 i ugo wf v c xlugrp k c u| 2 /
i {gpv< j qi { c o a u 2 v. c| u| kvg tgpflkp xcp. fg j qi { c|
3/4k 2 v u 2 r r gp gi { eu h a ncv# Xcxc o k c| gu l 2 dg hwqw< o gi /
dqu| wqo i 2 u| xgrë. o qpf v c o ci a dcp0

O knqt c| Qnv j ¶ l a j q| 2 tvgm gi {u| gttg o gi a nqw c u| 2 /
ngn{ <

ô ~i { pgo o gp {gm xgrgf go dgtgm n ř k o gtv o gi 3/4n c
u| 2 i {gp0

ô U o k ř rg u| 2 i {gpA

ô J a v c vg eu» t 2 p / ř vgf. o gtv c u| t / i A p {c. c ugo o k

ô O gi kpvvo gi j^a dqtqf v^a r0
 Eucmwi {cp o gi. o gtv vku| vclpi {gp cfqm gi { pcft^a i qv0
 Pci { | ugd² d ngr² kuj Ì qwgi { tqpi { qucv0
 O²i hgij Ì pkug wf qo 0
 ô P g dwuwl. hgij Ì| wmgwgp0
 ô Uj qi { i qpf qmf A
 ô Mwtv/gu| xci { w>i qt# J^a v² p vctvqo c j^{ff} crw u
 vg dgr² ul ¾¼¾¼nc netlf t>r0
 ô X²i tg o gi gi { gl vgn0
 C| ¾¼¾¼ c j^{ff} netl^a tc^a mqw u c| cv{chk cn>n vctvqc c
 pcft^a i qv. o kpvgi { | u^a mq0
 ô U| ¾¼¾¼²n w>i qt#ô xgl² p{ gmg c ul² ngn{ 0
 ô J qrr# ô ngpf Ìw c| ¾¼¾¼ u p{qo dcp o gi p{gmgpv
 c l²i gp. o gtv l² rtgwi tqwc i »d²0
 ô N^a ff gi. c f k gnekv pgo xgx² f l>n ô xli cu| vnc c
 ul² ngn{ 0
 F w| wo » ¾¼¾¼ n^a d^a v vcr qi cwc n^{ff}qu xli { qti^a uucv<
 ô Lcl. dg uclqi . u dg j kf gi c l²i 00#
 ô J kf gi dl c. o gtv c| v c| Kvgp Ìi { cwc x>v ô d¾¼eu/
 n¾¼¾¼ c ul² ngn{. n¾¼ dgp o gi kpf wv u j kf gi gp u vgo r>ucp
 vcp^a euqvo qpf qw<
 ô N²i { eucm p{wi vqp. o clv²i o gi i {^a xwu|. o ^{ff} gmqn/
 xcf c l²i cn>rf 000
 C| ¾¼¾¼ pgm o²i cpp{k gtglg xqmw j qi { c r ctvc o^a ul qw
 U² llgn qf ghci {qw. o kpv c euwcm u c ngf xgu P go gtg ul grg
 eucmj kpvwg ul go g n¾¼² c ul² r hgj² t j cxcv0
 C| »v ku qwmw qtqi c| Qvwj ^{ff}lc o gmgw0
 U dgu l² rkm j qi { j qif xkfi qu² llgrmgp ut p uwj qi pcm
 n¾¼ Ì¾¼wg c ul qmp^a m p{w j c vwp p m i {¾¼{¾¼ ul² rtg
 xgvng| xg j gxgt² ul pgmgn wg c j cxqp u ul Ìpvrgo Ìn ul² r ngl gm
 uko qi cv^a mu ul gtgrgo tg dw f ^{ff}l^a n0
 Rgf ki Kvgp n^a vc. o²i gi { hqmen eu^Àp^a dd ku ko o^a t.
 o kpvcl ¾¼¾¼ 0

*P gy / [qtm 3; 450+

XCU CT[I f DQT

3: ; 9/

GI [MN̄ RKTQUHGUV; M000

ô Go r̄mul gn c hguv o x²u|/dct^avqf o vgt^o2tgA 0 0 0
Cnkp²no gi kuo gtmgf v̄pmAô o qpf qwc Erctkuug0

ô Go r̄mul go 000R̄tvA

ô C| ku pci {qp gi {u|gt gp xcp dgtgpf g| xg. fg c| r̄gi c/
r̄f dd eukpqucp r̄nkn0 U²r u| p̄pgugm c d̄Aqtck0 Tkr qrkppcn xcp/
pcmdghguwg0

ô O^at t²i gp cnetwco n̄tf g| pkv r̄gf xcrc^o k0

ô P quAVgu²n#

ô Xqrvn̄4 v̄gvmxcrc^o kA

ô O leuqf cA

ô O^at Ìi {²tvgo 000U|gtgwgf vA

ô | pAC|vc j An²vA00G|vu²t²upgm xgu| go 0

ô | u ug u|gtgwv²i gf A

ô J^av j qppcp wflco c|vA OR̄tvA O qpfqw p̄ngf
xcrc^o kA

ô P go . pgo o qpfqwugo o k0

ô Eu»nqrl o gi # ô r̄gxwg c n̄cr̄l^av²u eu»ntc p{À/
vqwc c u|^al^av0 ô X^atl. r̄gv²4r̄4/ c u|^ao cv. o gtv tÀ uqu r̄gv
v̄r̄000| p Ìi { ci i »f qo²tvf 0

I {qtucp h̄r̄f m̄. nkt Ì uq|vc c u|^al^av²u gm gpv0

Erctkuug/pcm v̄p{r̄gi ki c|c xcp0 G| c r̄n̄u o gi r̄gi gv ugp
ukx^at²u r̄gi cpi qn̄0 C| gi {u|gt dgtgpf g|²u o²i pgo xqpc
dcl. fg c d̄Aqtqm qn̄{cp n̄q̄r̄qwem²u l̄f tcf v u| p̄ gn0 C hguv /
o x²u| d̄Aqtck u|²r u| p̄pgugm 3/4 o ci c hguv²dg Tkr qrkppcn0
Gn ku o ci {ct^a|vc. o kn̄{gp gi {u|gt c| gi²u|0 M̄u|gp
o gi n̄r̄lc c| go dgt c o gi h̄rgn u| p̄pgngv xgu| gi { geugv
²u dghguk xrg c d̄Aqtqncv0 J wu| qpp²i { »t^ap dgn̄An o gi /

ul^a tcf 2u Ìi { tci {qi. o kpy c ul p̄pgu rnm̄en xqp^v m
xqpc dg0

—i { r̄i v̄l km Erctkuug/te j cv̄ uucnxcppcmc| 2r̄ pmul p̄pgn0

Dg hji qo hguv̄pkc dÀqtck0 cv0

C n̄i4 grk hguv̄m̄À r̄v̄dgp xgwo gi { nk̄» r ktqu Tkr q̄rkpv
2u gi { geugv̄0

Èp̄n>t^a p dgn̄Àn kpi v̄lltc xgv̄m | xg. o^a t c| cu| v̄cnv dghgu/
vgwo 0

Erctkuug/pcm v̄i4r̄ r̄v̄dgp ki c| c xqn0 Gi {ul gttg xk^a o
rgw c| cu| v̄cn ul kpv̄g uk̄n̄q̄| qw c| 2rgv̄4³/o v r0 I {3/p{³/4 .
tci {qi » r ktqu xqn0G| w̄ p dghguvgwo c n̄ v̄ul 2ngv̄ku0

Tgo gn0

F²rtg n̄i ul r̄v̄wo c ul gnt²pp{gn ku0 Gi {ul gt gp pgo r̄gj g/
vgwt^a ku0 gtpk00 kpy c r ktqu xk^a i qu o gl r̄gw xqpc c r̄n̄i u0

C f̄k̄^a p{qm r̄i dckv ku dghguvgwo 2u o²i t̄gpi gv̄gi hguv̄² m
o ctf v0 Wp̄ki gr̄i r̄gw xqpc gi { l̄n nk̄» ku. fg o quv o^a t
pgo hji qo gr̄f qdpk co ko gi o ctf v0

O kv̄r̄gj v̄pg o²i dghguv̄pkA

C dct^a v̄o pcm cnk gi {Àw r̄cn̄q̄w xgr̄go. xq̄iv gi { »eum̄
d t̄3/pf lg ku. c| v dgn̄Àt n dghguvgwo ul²r r ktqtc. o gtv n̄qr̄ qw
2u r ku n̄qu xq̄iv pci {qp0 J qi { hji 3/4Àpk p̄gnk j c n̄k{klc0
O gi lgi || go q̄n̄cp. o kpv̄gi { v̄cnp{qui {gtgn0 }

Mkp̄v c n̄q̄p{j^a dcp c i^a| eu³x̄ngv̄y ku^a v̄hguvgwo ul²r
r ktqtc. c| v̄p c| cdrcm n̄gtg^v v dgn̄Àt r0 Gt̄n gu| go dg
lwq̄wcm c dgu cdrcn̄qm n̄gtḡvk j co ct dghguvgwo c| q/
n̄vku0

Fg o²i o kpf ki o ctf v hguv̄² ngo 0 Gi {ul gt gp pgo xq̄iv
n̄r̄gu gr̄h̄qi {pk0 G| gn c o ctf² m̄en dghguvgwo c dct^a v̄o
n̄i4p{xgl̄pgm c v̄ d̄i kv ku0 O k̄pgm xguul gp n̄i tdc c hguv̄² m̄A Gppgm
c| go dgtpgm̄k{gp ul²r n̄i4p{xgko²i uqj cugo xq̄ivcn0

Ncūcp̄n̄i pv gr̄h̄qi qw xc̄r̄o k hguv̄² uk t̄Àgv̄0 | tgl v̄go .
j qi { j^a wn c| ci {co tc xc̄r̄o k | ukd̄qi » p{qo^a u p̄gj gl Àr0
Eucm r k̄rc̄p̄v̄qm n̄i t̄f² ug 2u ngo gi {gm Àlcdd n̄i v nk̄» hguv̄² n̄i tv
2u dghguv̄go c| clv̄n̄ev. c r̄cf̄n̄v. c h̄rc̄n̄ev. c r̄re u j^a| cv² u
n̄kpv c| we^a p c ugi p̄u²i² tv q̄t̄f̄q̄| » l^a t̄»n̄gn ngv ku0 J co ct
n̄ktq̄ cp̄vco c n̄q̄p{j^a dc² u j k̄f gi x̄q̄| gn o gi o quvco c h̄glgo gv0
C x̄q̄| p̄gmi {gpi² f r ktqu ul p̄pg xqn0G| o gi j³/m̄gp̄vgw0

G| cr̄w o gi² tng| gw c dct^a v̄o 0 Gi {gn tg pgo o gp̄vo
dg w̄ pc. j c f f r̄gr flg nko ci^a v̄gi {gf Àr0

Gi { k̄f gki eugpf xq̄iv q̄f cdgpv. c| v̄p v̄i4ddu| 3/4 ku p̄i {
n̄i n̄q̄w h̄gn< ô P c#00 P c# 00 P c# 00 / fg gi {tg go gn̄
ngf gwc j cpi lc ul p̄pdgp² u gt dgp0

Co knqt dgr r vgo c ul qd^adc. o^at cnu>hgj²tpgo dgp uftv
gi { ul²mgn w²u c r ktquhgu²ngu pcf t^a i l^avp² | vg0

ô Mkhgugwg dg gl vc ul²ngvr ktqutcA

J^av gl c|0 C dctqo rg^Än. o gtv o^au gi {²d pgo lww
gul²dg. j c gi { ul²ngvr^Ä v0

C| cul vctc vgw c pcf t^a i l^av. fg t^{3/4} v^{3/4}p hgnku ncr v0

ô t^Ärg# G| ku r ktquA lqddt>n/dct>n r ktqu rgw c pcf t^a /
i qo 0

ô O^Ätv^Än² nrg dgppgA

ô J^av o kdg ^Ärlgm rgA O k>vc ngm c| go dgt pcf t^a i l^av ku
ngj ^Äpk j c rg^ÄnA

ô O kgn w rg^Än c| go dgt. gn dd n^{3/4}^Ärp² | 0 Hgn²xg. j c
pqto^a rku0

ô O²i vg o qpf qf gl vA

Xcnu^a i i cn p {^{3/4}ul^{3/4} pk ng|fgw lf lfc m^a dcp0 Gi { gwgp
pcf t^a i qo. gi { gwgp pcf t^a i qo ô o qpf qi cwc²u hwf qm>
| qnqi^a udcv v^{3/4}v n^Ä0 X²i ^Än ku o gi uclp^a nco²u n^{3/4}re^{3/4}pcf vco
pgnk gi { pcf t^a i qv0 *O gi lgi { | go. c rgi ul gdd pcf t^a i qo xqn0
T^{3/4} v^{3/4}p dgr^{3/4}n^{3/4} v^{3/4}w²u rucupn²pv greugpf gugf gw0 C j k^Äi^a c
ngtngf gwhgn^Ä0

ô Gi²ul f²rgn w c fqni cko w^ap o^aul n^Änco²u o quv
j qnl^a tcf vcp j c| cl^{3/4}x^{3/4}m²u o²i ^Ärp k ug rgj gv ô o qti qw
vx^a dd0

ô Eugpf rgi { gp# ©rl ng c l^{3/4}ftg. j c l^Ätcf v xci { 0J wul qp/
p²i { >^av o²i nkd^Äwpn0 G| v c|^a r f q| cvq v o²i kic|^a p o gi /
²tf go rmc d^Äqtclpm gddgp dk qp { qu xci { qn0

ô l u o l^Ätv r ktqu kwo kpf gpA

ô O^ÄtvA O^ÄtvA 0 0 0 J c n²m xqrpc. cmqt c| v n²tf gl /
p²f. j qi { o l^Ätv n²0

ô Fg nko qpf v pgnf. j qi { o kpf gpvdg ngmhgugpkA

ô l p l^{3/4}wgo t^a0

ô Fg eugn² f ul qdc lgn^Ägi g xcp0

ô Pg j ci { f o ci cf l^Ärtgxgl gvpk0 O quv uqmn n ngf xg/
ugdd c j cpi wrvk00 k^Ävj c gi { xktkpdgp ^Ärp c| go dgt0

Gmqt p² | gw c| cdrcntc0

ô -tkv^Ägp. c| cdrcnqvku dghgugwgf #000

ô O quv o^at gr^Äi xqn# 0 0 C| cdrcm pgo ku c v^Ägf 0
kpn^Ä dd c n^{3/4}p { xgl gv p² | f o gi 0

J cm p {^{3/4}ul^{3/4} i u^Äl^a ucnlgr| vg. j qi { o gi vcr^Änc ngv0

Pgo o qpf qo o gi pgnk j qi { c d t^{3/4}pf l²v ku dghgugv/
vgo dgr^Ärt r0 G| c| go dgt grxgul vgw c| ^Äl^Ä r² u^Ä v0 Mk w^Älc.
j qnl^a tvc f²rgn whqn^Ä co^a p0

ô O kv hguv^{w2} n o 2 i dg. v g u l 3/4 p { gvi A 0 0 0 O q p f f o gi .
j c f f rgi { gmv Antclvc 000P go hguv^{w2} g f dg c l kpi glo gvA
t[~]Am[~]pv n[~]4[~]Am[~]wcvc c u l qd^a v. c nup { j^a dc ku nko gpv0
Co knqt xku l c l 3/4 v. c n[~]4[~]kgvng l n g v l g n g p v g w <
ô C r k t q u i a | e u 3/4 g m Ai { j c v p c m c n u p { j^a d c p. o k p v j c
x c r n k p g m c x 2 t g u d 2 r t g p f u l g t 2 v n k h u l ¶ g w 2 m x q r p c c h e r e n t c 00
ô P g o 2 t f g n g u l #
l l l g n t t c t k f v c o h g n j q i { c d e t^a v q o c o^a u k m u l q d^a /
d c p h g m k² n q w <
ô — t k u g p. c o g p { c u u l q p { q o n[~]4[~]e u 3/4 p n[~]2 t v d t 3/4 p l 2 v k u
d g h e u g v g 0 0 0 p c. p g o # 0 0 0 G p p g m o 2 i h q n { v v[~] u c r u l 0
C l v[~] p q f c i r r g w c l^a i { c o g r[~] 0
— i { v g w o . o k p v e n k o 2 n g p c n u l k n 0
ô P g v g u f o c i c f. Ai { k u w f q o . j q i { j c m q f . j q i { o k v
d g u l 2 r g m 0 0 0 J^a v k f g h i { g r l # 0 0 0 J q r p c r g i { Ai d t 3/4 p f 3/4
h q i u l x g p p k v g f k u l p >> 0 0 0 o g t v h g l g n g p v g r g m c t g p f t /
u 2 i g p 0 0 0
T k o k n w . o 2 n[~] . p { w i q f v j q t n q r[~] u d c n g l f v g o 0

C RCVM

O^a t c r c v m o gi v n[~] r[~] u^a p c m n[~]4[~] A[~] m 2 p { g k u g o x q n c m
2 r r g p u l g t g p e u² p g m o q p f j c w n 0
Co knqt o gi n[~] w c c n q e u k A v p 2 u 2 t v j c l q n v[~] x q r k t g n g f v
q t f ¶ v j c m q w. f g c m n q t o 2 i Ai { g v u g x g v w t^a 0 C r c v m
j c v c r o c u. u l 2 r r 2 r f^a p { x q n v 2 u v g l g u g p r e n[~]4[~]3/4 v g c h i { g r o 2 v 0
E u c m n[~] u d d r g w p { k x^a p x c n . j q i { c n q e u k u. c n k p g m c r q x c
g r k g u l v g w . o g i n[~] v j c w c . c o k n q t 2 t v g j c l q n v 2 u o q u v o^a t
n q e u k³ t u^a x e n q u q t t e n c n g l A n d g p . A r f 3/4 p k n g l f v 2 m c u l g t g p /
e u 2 u o g i v n[~] r[~] v 0
C r i k i w f v o g i o g p v g p k g n n[~]4[~] m j k x^a p { 2 r g v 2 v 0 J c l u l^a n p p
o A n q w j q i { g r[~] t k m 2 u c i { q p x g t k n 0
M k t w m c f v[~] p . | k j^a n v A f n g n n k j g i g w g i { d 2 t j^a | 3/4 3/4 k m
g o g r g v 2 p g m r c f n[~] u h g r^a t > l^a p . c j q x^a h g r o g p g m A n v g n n A m 2 u
Ai { t g l g i v g m c n[~] d c k o k p v u l k c m n u p { c v n q t c p {^a t h c r g x g r g n 0
ô O k n g p u l g t g p e u g ô n k j g i v g n k f A n g f v u l g o g m n g n
o k n q t c l A r f 3/4 m o^a t g m c t c f v e m c p { q o^a d c p 0 ô O k n g p u l g /
t g p e u g # J c o q u v p g o r c v m v v n[~] r[~] n q m n[~]4[~] v u 2 i v g r g p A n g r e u f f /
p g m 2 u t e r k v^a t c x g t p g n 0 O^a t n g l f f k m k u c u l g t g p e u g 0
J c l c 2 t x g p g o w f v c n k u l g f p k c | u g d 2 d n c m n q t c x q n 0
* M[~] v u 2 i v g r g p . j q i { c l g r[~] t g p f u l g t g p e u g c r c v m p c i { u^a i^a /

j q| ku xku qp{w0- Cffki j À| w. j w| ki^anc. co ¶ kf gi gu²i²/
dgp gni cñ¶qwc c ncd^avc | ugd²v xgrg0 Decl. decl. fg j^av gpp{kv
eucmki c|^a p o gi²t c r cvm». h c| . j qi { o^at kvxcp c j^a| p^an0

C| qp v³/4 t gpi gw. j qx^a vgi { g0

Gn ul 3/4 c| ¶»cu| vñ²tc vgw. fg o^aupcr o^at o gi d^apxc0
C r cvm» hgmeteqnc c| cu| vñ r qrkAtq| qw ncr l^av0 Hⁿ xqnr
j qi { r^at per qp dgnAnvgnlgup v³/4 pnt gvu| k0

Wi { cp j qx^a vgi { gA

C ul cñp cu| vñ²tc o²i ug vj gv k0 Gugvgi c ul gnt²p{ vgw/
l²tg ngj gvp. fg qw o gi ugpnk ug r²vc=dgrgr k c r qt0 W»x²i tg
pgo c|²tvul gtgpeugr cvm». j qi { grt glug c| go dgt0

I qpf qnc. hgnul 3/4 gl kc hñtc0

C o ck o qf gtp j^a| cm hñck h nji j wo^apwu e²nv ul qñi^an/
pcn0 Gni uqtdep c|²tv qñ{cp o gi ngr gp x²nñp{cñk j c xcñnk/
pgm xcño k dclc gukn gi { t³/4 kf gv n²nv² u t³/4 v³/4 ugi ¶w²i²tg
ulgj gvp gm c ul qo ul²f ck0 O^auqf uqtdep pgo ngj gv c hñtc ul 3/4
i gv xgtp k0 Xci { gi {^ancñ p pgo o gi { dgrg. xci { kññ dd
ñul cñef c| gi²ul hñ0 G| c|²tv xcp. j qi { ugpnk hgn pg cñul v
j cuuc o ci^av0 C o²tgi o c wi {cpku o²tgi ft^ai c. c Fwp^aki
o gppk xkñco qññ²i dg ngtAn pñeu o^au j^avc. o kvv hñ/
cñul vpk o ci wñev. j c Ai { hñtf vnc f qñi 0

G| gno c o kpf gpnk vñ² dcp xcp0

D^atnkpgm gn gu²ñlAn i qpf lckpnev² u o gi nñtf g| ãm v ng.
o kvvgi { ãm c| knv hgn² vgp c| vhgñkt^a <

ô Cñul f hño ci cf0

! u gññt ñr ñ²/4 dg c hñ0

C r cvm»vvgi^a v pgo ngj gvgwc hñtc ul 3/4 gl pk0

Det^avk ñ²/4 dgp c| v c vcp^aeuqv ncr v. j qi { ul 3/4 gl | g c|
clv» mAn²/4²tg. gl gppgm c| gi {gf ãrk o »f lc0 C ul gtgpeu²v
xcñj qi { Ai { ngm gññr | gñk j qi { hgn/cñ l^atnñ n c x^atqudep
²u c j qnc mAn²/4³/4 r cvm»vñ v qf c dg ku v²t p{qo dcp0

Gi { r guk d²tj^a | dcp pgo ngj gv c nññ u mAn²/4²tg r cvm»v
ul 3/4 gl pk gl²tv c| clv»p dgnAn c mAn²/4 o 3/4². c| gn ul qd^adcp
ul 3/4 gl vñ r g0

O^aupcr tgi i gn xgn v^a | » ukñññ² u r qñññ eu³/4³o r³/4²u
tgo gi vgw o gi o kpf gp r qtekn²l^av0 C eugn²fñ p{ dgrgdqvñv
c r cvm»dc. c tgi i gñk²v qf ceur v c hñj q|² u cñr qucp 3/4ul g/
xgtv o ci^av0

ô N^ao. ño. ô i qpf qnc o ci^adcp ô ññ ul km j qi { pgo
c eugn²fñ p{ vññnc o gi c r cvm»v. o^aumAn²/4 dgp o quv²p
xgtvgo xqñc 3/4ul g o ci co cv0

Gu²tg o gi l³/4v c hgn²i g c p{ctcñ ud»ñ0 C r cvm» pgnk ku

pci {qp vgu| gw. fg o leuqf c ¾rgv c| gn ul qdc n¾ gr²tg ul ¾/
i gl p¼Hgn² vgp xktkpdg ngm vppk qwcppcmc j gn(g0

ô F g j ku| gp plpeu ku xktkplpñ0

ô J^av o clf xgu| gn gi {gv nku ul ¶xgo 0 Xku| qpv. j c o^at
xktkpv xgu| gn co k w»x²itg o²i ku eucm nzwu. gn dd gi {
neda vqv ngm xgppgf c ul^ao qo tc. w»x²itg plpeu o kv hgn/
xgppgo 0C xktkpv o²i ug xgj gvgo o ci co tc neda vj gn(qw0

ô O clf c rcm» ô o qpf v c l²tl0 ô Eucm x^atl gi {
nleukv cpi {cmqo ô fg c hrgu²i pgo xqv j clxpf» nk^atpk
j qi { c neda vtc xcn» cp{ci qvc rcm» ul gtgl | g dg0

O gi rgj gv ugp nkuj kv xqn0

G| gp c| v³p crr qucp ¾au| gxgu| vgn0

C rcm» eugpf dgp o gi rrv wv c| gn ul qd^adcp c l¾f¾p ²u
pgo ul »nvgi { ul »vugo 0

J cto cf per c| cuu| qp{ c l²tlg gr^a m<

ô T¾ v¾ nkxku| gf lppgp gl vc tqpf c rcm»0

ô Ok¾v¾pvA

ô l p ku o clf pgo c p{cmco cv¾vgo 0

ô J qnc rcm»A

ô Qw xcp c ul qd^af dcp ²u l²nt^ap dgnñ pg nⁱuoco 0
l rrgp c| qp i qpf qm| qw. j qxc rgj vpg grtglvpk gugvgi
gr^aupk co kmqt kuo ²vdgr^rgwj q|^a c hrgu²i g<

ô P c. grku| gf c rcm»v xci { pgo ô nk^anqw t^a lpi g/
tñgp0

ô O leuqf c j cpi gl A

ô Co kn(gvo gi ²tf go gm| 0

ô Hki {gm gl vvgm j qi { c hglgf j gl x^ai qo c rcm»0

ô C| vu| gtgv²o nⁱvpk0

Pgo ul gtgvgm wpf qm ul^a pf²mÀ f kn»i wuqnev kuo gtgvpk
gl ²tveucmc r²p{ gi gvo qpf qo gr0

C hrgu²i c rcm»vnkf qdc c| we^atc0

l rrgp cmqt o gpv ctte gi { x²pnkucu| qp{. cmkpgm xcn/
j qi { c hgl²tg gugw²u cnk c| v³p l²tlj gl o gp²uk gu²n(gkpgmeu¾n/
ngp²ug o kw v| gl gt rgpi tg dgr gtgm ngv²u o gi ku p{gtvg
gl vc rgt0

J^av gl ²tv pgo ul cdcf n²vgmgf pk cddep. j qi { c rcm»
ul gtgpeu² vj q| 0

Eucmewññi . nkpgn0

RGUVK CW~ DWU\ QP

J c o gi nřtf gl gnxcrcnk<

ô " p. wco . o kř rg nř4 rgnrf²uk gu| nř4 v j cu| p^a nA
| u c| krgv c| vhgřkt^a <

ô Cw»dwu| qp wc| qo .

ku| v dcp řj gu| c| | cn j qi { hřthxcn^a mcul u| go dgp.
cnk ři² p{ c vcr^a p0 | dgt vgnřpvgv . o q| i² nřp{ . twi cřw cu
u| «x»u u| gtng| gv² u i { qtu hřřqi^a uA0 P go chřř rg p{ kř / p{^a o
cřw j cu| pxcgj gvgřp . Āi { gvgřp hřm» . cnkv c ři gnu u|² n
řxgu| c ři d^a t»ıf0

Co knřt gn u| 3/4 wc| wco r guk cw»dwu| qp . o ci co ku o gi /
řr f vgo c xrggo vř4 vřpvm hřřw0 C pgj² | nřf² u vř4 x² p{ g
Āi { u| »n^a p gi { gvgřp r křpcv cřw ugo o kx² x^a n0 O křv
f qdq| dcp o gi t^a | qw ewnřtf ctednē . wi t^a nco cđrcm»n c
vgv ki . qppcp xku| c c hřřf tg . c| wcuqm hřl² p nřtgu| vĀn o clf
nřv u| gt o gi r gtf Ānrg 3/4 po ci co nř4 Ān gi { j 3/4 i { 3/4 ř dgp
nř4 3/4 vgo n0 C dčt^a vgo . cnk gl v c lgrępvgv x² i ki p² | vg .
c nř4 vgnř| nřrtg i qpf qn< «p g gi { cp{ c 3/4 ř dgp vctlc i { gt/
o gnř v² u c i { gto gm pgo wf pk o křtv gi { gvgřp r křpcv cřw
hřthx² ugtf Ān . co c| o gi o gi dqt| cf xc c| gřlg vř tw» ři v
x^a p{ «n j 3/4 3/4 xg gncul «lc vo ci^a »ıf0

Fg ři wco o^a t gpp² n ekř^a dđcv ku0 C i { cpĀncp wcu
*p{ kř^a p xlf² nk řj gvgw+ cñi j qi { hřnu^a nv gttg c|^a nřu| qw
l^a to tg . pci { nřřp{ gřw gp t^{3/4} vřp gn xgwg c r² p| vř te^a l^a v
j qi { lgi { gv x^a nřp . o clf gřřtf «řwv o ci^a v² u nko gtgf v u| g/
o gmn gn hřřřf cřv x² i ki wi t^a nc c| cw»dwu| j quu|^a v² u c
x² i kdgp o gi tgnřf xg . u|² wř tv netlckv . o křv cnk ci { qprř4 g/
vř u² tg x^a tcnř| km x² i Ān ku j cpi qu r vřřp^a ucn x² i ki | vj cpv c
r ku| nřu f gu| nř nřp² u řj wp{ v u| go gmn gn i { qtu hřj^a u| v tgdgi /
vgnclnēk j qi { ukřt Ān² nrg o gi Āu| pk^a nřu nřřp{ gřw u² i² v0

C r guk cw»dwu| v j^a dqtı » vřpi gtgp j^a p{ nřu»f » j cl»/
j q| j cuqprřcp^a o . co knřt c| gnu| cđcf wv gřgo gmn gn x«klc
vř p² r r gp x² i u j cte^a v0

C vrcu| vrcvřp wcu c o gi t² u| gi Ān go dgt dķ qp{ vrcp
řř r vřxgn nř u² i dggugwgp nē r nřf o křf gp wř p . co k² r r gp c
nřl g Āi {² dg cñef0

Gi { «ř dgp vepĀlc xqnco . co knřt gi { hřcvrgo dgt gi {
j 3/4 i { f kxcvqu nē r r l^a dc nē r qw dgrę . co gñ i wo ku| cñi i cn
xqn c| křv hřl² j gu| u| qt «řc0 C nku nē r r qv gi { u| go xkřp^a u
cřw hřm² vřp{ kř gř Ā v c j 3/4 i { hřl² v n o clf o gi dqt| cf xc
qeuo^a p{ vgw² v n t^{3/4} xguv gn ku gpi gf vř . fg d^a t pg vřwg xqřc .

o gtv Æi { wi tqw xku| c c j 3/4i { hgl²tg. o kpyj c euÀ rkd»n n w²m xqipc nk0 O kpf gl| qn{ i {qtucp v⁴v²pv. j qi { ugo o kpggo vcpwn²i qvpgo wf wpmrgu| tpkdgn ng0

f o cmmqt ku o gi ngr f qni qm^{v⁴v²}ppgmxxgrf. j c o^at ukng/ t Æw o gi ner cul nqf pqf² u c nqeu k o q| i^auc u| gtpv n>i u| lqddtc/dctc. go dgtk o kxqncf d»n vgrgugp nkxgvng| xg. kn{ gp/ nqt wi {cpku u|^ao qrpqf ngm c| Æcdd hgn²u^am»nmen cnkm xcrc/ o gpp{ kpp gnqt| wv cteecn lgrppgm o gi c nqeu k clvcl^adcp²u pgngr gupgn0 J c kn{ gpnqt nku^au| km c ng| gfd n c d tner cul/ nqf ». ki gp Æi { gugp ngm hqti qn»f pqf. n²pp{gf. twi cm cu v²per²r²ugmgn dgj clvq w v²tf gmmgn wi t^arp k n²4 Æi²w Æm o gtv gr wu| wvj cu| 0 Rctvgtgf j cuqpn» c x² dgp hwf qm»j q|. cnk²rgvo gpv l²pgm hgn²vrgp c p{cn²v ki {gnul km gmer pk j qi { i {qtucp x²i gl| gp xgrg0

Gi { u| gt go r²ng| gvu r² v^a p{dcp xqrv² u| go 0

Gi { eulqqu j 3/4i { .^a m qf q| ». dwlc vgnkpvwgn p²| gi gwg c| cw»dwu| cdrcnc gn w gnwj cp» Æi²rgvm nktcncvk. co knqt gi { l²thkwcu dggugw c| clw»p²u chl²ng xcf ctenkhlgl²uugn tqj cpv hgr²lg. o kpyj c²rrgp c hgru²i g rgw xqipc. cnk²o quv eu²rgw vkrudcp²u c| qp xqipc. j qi { o gpvcp ci {qpxgtk0 M²v netl^axen^avner vc c j 3/4i { x^amck. cnk gu| gn ugp uknqng| pk ng| / fgw0 C l²thkpcm gmmqt j kvrgp o gi o^auwv c| ctenkhlgl²ug. o kv cnk j quu| Æ kf glg pgo r²vq w xqipc p v u o quv hgn²vrgp dk qp{qu²i qv cnetv u| gtg| pk t»rc. j qi { pgo xcrc k^a nqo/ n²rgv r²v²u gmgl²fv g xcf wn t^a| qi cvpk j qi { tgv²m Æi²lg. nerlc c h²4f tg gugw0

Gi { o^audc ner cul nqf vcm gu| gn ugp. o clf j kvrgp. Kvgp wf lc o k²tv o gi ngj gv ugp xk^a o cp two d^a| pknng| f vgn0

C nerw pem ngmgw u|²llgr^aru| vpk ngv²rrgp cmmqt. co knqt o^at o kpf ngw l²Am o ci cvt²uc gi²u| gp Æu| gt x² x^arv²u qn{ cul²ng o gi ngr r²v^ap{qu²i pcm² tngl²gw. co gn{ gw c ngi tkn²dd gugvdgp ugo gpi gf tgo²rp c uqtu gi { cw»dwu| qp gu| n²4 3/4w wcl^au hqn{ co^ap<dw²hgpegv cnetvcmxgpk0

I {cmtkdd gugv co knqt n²v Æi² gukngi { o^aupcm²u o gm | xg o kpf gp dgo wcvnq|^auv²u hgm²t²uv. u| qnervcp u| krc| v²pedc ng| f gpgn0

C| kn{ guo k h ngi cmmqt xgu| gfgro gu. j c c| cw»dwu| qp l»eun²p xcp j gn²u c uqtu^ancn nku| go gngm n²pp{gf²p kf g/ qfc fqd^arv^a m gi { o^auv. u| edcf o q| i^auk vgtgv ner xc. gu| g/ xgu| gwgp tqj cpi^arpm hgn/ci² c| cw»dwu| dgmgl²dgp0 J c kn{ gpnqt ngqvi tcl²rp^am ngv. p{wi qf vcp qf c²jj cvp^am c n²r ci²<

i O k p n g v r g f k i u g p n k u l 2 v p g x a r c u u / q p . o g t v u / g t g v l A m
g i f o a u l e

H e r d c t a k 2 t | 2 u v n x g | 2 t g m g w g . u | g t g v p 2 o c | c w w d w u | /
 w c | a u j c u l p q u 2 u 2 u | g t c i r c r g n x g k v r g h e m g v p k 0

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

I q p f q r l g n d d c x c f a u | c v t c 0 C x c f a u | c o q | i a u d e p r i x
 x c f g r i e 2 n | . j q i { e 2 r r q p v c d k | v q u n g i { g p . f g o k x g n k v o c i c f
 k u o q | i a u d e p x c i { . o g m | x g c h k k n e k f g x q p c v n u | » v 3 / 4 x 2 /
 p { g l t g x c n » j k x c v n u | a u v . p g n g f . c n k v c o q | i a u k u r g p f A i g v d g
 j q | . c | A n j g n | o 3 / 4 2 n g m e 2 n | p q f . n 3 / 4 A i d n A n 9 2 o : 2 e g p v k /
 o 2 v g t t g . j q i { r q p v q u c p q f c 2 t l . c j q x a u | a p f 2 n q f x q r n 0

40 D g j c l v q w v t f f g n t w i c p { q u c p a m l o g i c | c w w d w u |
 r c f n » c v p . c h q t f w a u e n g m g p n g | k a p { d c j c l i f x c p { q o q t w w
 v g u v g f g v 0

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

60 C m A u r g t t q p q p p g a n f q i a n l g i { r k n e p c k i u g c p 2 m A n
 j q i { g t u g p o g i n e r c u l n a f v n x q p c 0

C t t » n k u j e m q w e o a t . j q i { c n e r e w | x k u | c c n e t v c f p k
 c | w e u r 2 p | 2 v 2 u c | k n g v v o a t p g o n v e u g j q r 0

o J q n c | c | w e u . c n k c | g n d d o 2 i k w x q r n A o n t /
 f g | v g g i { o a u k n w e u » n 0

o M k u | a m 0

o M k u | a m A J k u | g p p g o x q r n n 3 / 4 d g p o g i a m » 0

o X g i { g u | » u | g t k p v . c o k v o q p f v c o < n k u | a m 0 H e r g o g n
 n g f g w c n d w l l c j g i { 2 t g 2 u j k t v g r p n k u | a m 0

o F g k w o c t c f v c r 2 p | g 0

o P g o n u | o a t c p p e m u | A m 2 i g e t t c 0

K g p A i { g r l A p m j q i { j c u a p n » u q t u p g 2 t l g p o k p n g v 0

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

XKU\ C C VGTO\ U\ GVJ G\

Gi { dct^a vqo o²i c p{^at grgl²p go n\|gwg. j qi { xcrcj qn
c Dcrcvqp o gp^vp vgmgv xgw o ci^apcn0 Pci { ngmgugf²uugn
dgu|²nv t>nc0 Vgrg xcp i { \Ao 3\eu|^f mmen²u n\4 \An ku xcp ngt\|xg.
u v o²i gi { nku j^a | km> ku xcp tclvc0 O kpf gl| pci { qp uqnev²t0
Mku|^a o \|qvc o kdg ngt\An o c gi { vgrgm n\4 \Amgt\|^vug. c i { \A/
o 3\eu|^f nt>n pgo ku dgu|²rk. o gtv cjj q| j quu| \A²xgm ngn/
ngpgm o \| i { \Ao 3\eu|³v u| gfj gv c| go dgt c o ci c \Angwg lf nt>n0
X²i \An o^at ctt>n^am qf q| qw j qi { kf xgn gl| gp c vgmgp^a mcpf >
rcnj gn| \Andgtgp f| ngf km²u i qpf vcrp 3\4 gi pcr lckvdk| vqu\|lc0

O qpf j cvqo . wpf qt\|> xqrv j cmcpk j qi { o^auqm o^at
n\2 u 3\4 gi u²i \Am dqr f qi u^ai^a2 tv vx² ngp{ ngf pgm co knqt
pgm\pmo²i c lgrgp 3\4\o gkugo cf cvpcmo gi 0

O²i c| v ku o gi go n\|gwg. j qi { r^at pcr tc u| \|xgugp n\ v
xgpf²i \An gpi go²u c dct^a vqo cv. jc plpeugpgm pci { ki²/
p{ glpn0

P {^at n\4 gr²p c| v^ap gi { r\gxgrg| rcr qvner wpmv ng0

*O kpf gp tgp f dgp xcp c nku vgmgp0 C| kf fgt u²u ngf/
xg| 0 U| qo dcvqp i | gtvgrng c tgi i grk xqpc wcr0 Xkf^a o cmrgu| \pm
C|^a nqo^a uqp x^a trcmdgppgvngv. 3\4 r\ndct^a vqvm<Rkac*

Gi j cv^a tq| w m j qi { n\2 t² u² pgm gpi gf \pm²u ngo gi { \pm
c dkt vni^a tc. d^at o kpf c ngwgp wpf qt\|> pcmvcr\ nwmc u\|nw^a 0

\o P². o kn| gp hgppj² l^a | >²u i i vrk o kpf gp gi { gu o qp/
f cvc0 U| kvg hrgkvc pgo wf qo²p o leuqf c0

\o N^a vqf. \| { o gi x^a m| cv gi { gugngv c l>o >f0
U| qo dcvqp tgi i gno gi² tng| v\pmc n\2 tf² ugu j gn| tg0

C xqpcv v\4 d o kvp gi { >t^av n\2 ugw²u ugpnk ugo x^a tv
o kvngv c|^a nqo^a uqp0 Fgt u. pcr h²p{ gu tgi i gn xqrv. o gi kv/
f wwpm c o gi cfqw e\p w^ap. j qi { h\4 f dkt vniqu dct^a wpmv
o gi n^a vqi cuwn0

C o gi² tng|² u \pm gi² u| gp x^a tvcrp xqrv²u c n\4 vngv| /
n\2 r v\4 v p<

Cj qi { o gi { \pm c| \Avp. gi { pci { t² vgp^av. gi { u| gt/
eucm n\ wpm gi { t\Angvu o² tgv. p{ kvq vgv| v\ \Amgtg/
egv. cppcmc n\4 gr²p \Anc dct^a wpm²u n\ wpmc \| { nk^a n\ hgn<

\o J qn^a tkj >#

O kpf gl| h² nrm gv u xqrv²u p{ vi vcrp\|>0

| rrgp gn cmctwpm o gppk o gngvg. o kvj c ujc ugo
kuo gtv \Anxqpc. co knqt \A>rci hgm^a nqwo

Gttg o gi^a nwwpm² u hi { gm\pm0

\o J^av gppgm o gi o k c dclcA \o o qpf v c dct^a vqo

M⁴ grgdd o gt²u|ngf v²pm gttg hgnw tqw ãv j gn²d n nk³/vc v² ãmgtged n²uo gi ³grvo kpf ngw pngv0

ô K^vgp j q|qw dgppgvngv0 P.c. eum i {gtv^m dg^hr²0 P {k^xa pxcn» xq^v. j qi { o gi²tn²l v²pm fg gi {k^mpm ugo o gt^vo gi n²tf g|pk j qi { dk²vu/g gl 0

C dk^vqm j cv n²d j qu| ã²u p²i { n²d u|²rgu xq^m0 K^v/qw hji r ku| n²no²tg^v h²m dg^f vi f quxc c tqpf.c. ci {ci qu h²/f dg0 O ci c c j^a| gi { dqⁿut v²k²dgp xq^v gn²re^a|xc. o k^vj c gi { ki gp h²p^vu n²v²pk gt f²u² rgw xq^{pc}. j qi { ugo o kv ug r²g/ ugp n²pkdgn r²g0

ô P.c. i {gtv^m eum dg c j^a|co dc. ô o qpf^v xk^a/ o cp0ô U|gt²p{gp^a n²qm fg c o ci co wtc xci {qn0

Gⁿu pgmc d²a^vo n²rgwdg0

ô P.c. i {gtg o^at nk j cff p²||g o gi V^kxc^fct ku0 Co kn²t c d²a^vo nk²r gw c j^a|d»n c j^qo n²n²tc o k^v/ j c g| c o qpf cv²rgwxq^{pc} ¶xc<

ô X^allqo n kn²t k^vwnk²ppg c n²i n²4 grgddkxq^{pc}0

C j^a| dgn² n ã² { j cv²w. o k^v gi { nk²gddo²tg^v h²tf / n²dkp. co gn²gv. pgo wf²pk o k²tv. u|qn²v²pc c²re²uq{tc u|cdv²n0

ô J qnxcppcmkwc i { ã²o ³re²/³mã²ô n²tf g|vg c d²a^vo 0

ô I { ã²o ³re²u c| k²p pgo xq^v. o gt^vgr²k²vg c n²4 0

ô C^j^a#

O wcv²w o²i n²v j ci {o^av ku0 Uq²g wf²co. j qi { kn²gp tqpf c h²/f d n j ã²|^am nk j qi { o gi gi²n0 Gi {k^mpm²gv ug gpi gf gw c n²4 gr²dg. o²i c n²4 gr²dg n²r pk ugo. pgj qi { r²g/ r qu²wn0

C| gi²u| v²mgp pgo xq^v v²p{²tp{k o gi p{wi v²w» |³/f h²/f 0 C|^auq^v h²/f gv n²wc o k^vgp ã²w c| go dgt. o k^vj c c h²tn²v²k vgo gv dgp rgw xq^{pc}. c²j²qn d²a^vw²pm o gi xg²wg xq^{pc} gn tg c ucl^avu²j gn²v. xku| qpvt^a ã²v²rp²0

C f²n²w²pk »t^amlcp o²i gi { xgp²f²i²tn²l gw c v²rgntg. gi { u|go ã²xgi gu ã²0 D²a^vw²pm j qu| cp ³grm²l gw xgrg0 P go wf²qo o k²tv. fg pci {qp gm²pu| gpxg²pmv²n²wn0

M²u dd dgo gpv c h²n²dc²u xku|cl³/v gi { v² ã²m²n0 O^at/o^at c|v j k^vã²m —j^a|k v² ã²m²xg²uv h | pgm²pm gd²ftg. co kn²t o gi wf²wm j qi { c v² ã²m²v eu²r^ap d²tdgxg²wg c p{^atk j »pcr qntc²u t³/ã² h²i {gr²pk n²l fg. j qi { v²ql²kn²g0 M²ge²ng/ v²lgv ku j q|qw o ci^ax²cn fg c|v o gi k^vc gi {gf ã²0 O k^vngv r gf ki ctte n²tv. j qi { ã² {gr²ã²pm c v² ã²ntc. pgj qi { o gi gi {g c xg²vo²p{gk0

Gd²ft nug²pnkugo dgu²nv²| gi²u| v²mgp0

Mu dd jgxgu u²n ngrvngl gw. c dca^a wpm t³/₄ v³/₄ c
vrgm n³/₄ gr²tg tqj cpv c lⁿnev vctvcpk pgj qi { nk²r l g ngv
c xkj ct0 Gughgr² gmgl f gw j³/₄i j cpi qp n³/₄ ³/₄ pk0 Cnk eucm
j cmqvc ²u pgo nⁿ wc. c| v j kwg xqpc. j^a | t| nqo qpf qtc ku
xcp. qn| cp l>n o gi { pgn¹⁰ O guul g n³/₄ Än^Äm pgj qi { gmer/
lwv ng c dclv² u Äi { p² | v^Än0

C xk¹ gv 58 o²th³/₄ft n ngrngw rrx>t dcp j q| pk ²u Äi {
tk¹ vg. o k¹v j c pci { nk¹peu ngw xqpc. o²i ku gi { u| gttg n²v
d²nc ku dgrggugw xcrcj qppcp ²u dgrg ku f³/₄ n³/₄ vgn0 T³/₄ v³/₄
gn ngrngw vgo gpk ngv. pgj qi { o gi dÄf³/₄ ³/₄ l³/₄ p c rxxgi ²u
gugvgi o k¹ngv. cnkn eucm qnw¹pk l³/₄ Äm k¹g. j wrcgi { gm
ngr lgp¹gm gr0 C d²ncu¹q¹m e²n¹a d>n c vrgm hgr² v hgn ngrngw^a upk
o k¹v j c eucm vgo g²v² utg n² u| Ängmxqpc0

J cv>tc hgr² ¶ | { nk¹ nqwhgnc dca^a wpm^κ

ô J k¹ dc. qnqu go dgtgmc xgi g³ tk¹ p¹wuqn0

Gdd n c| v³ p o gi wf w¹m j qi { wrc¹l f qn¹r r gp o^a t
o gi gd² f gnc| gn dd0

Gpi go eucm c| ci i cu| vqw. j qn hqj wpm o k cm¹pk o gtv
o k¹f gpt ndgu² ri gv¹w. eucmgtt n¹pgo 0

Gughgr². co knqt o^a t k¹gu v u³/₄² u²i ng| f gw t^a hgnÄf pk
c v³ ltc. o²i c| v ku o gi lgi { g| vg. j qi { c vrgm gn | wrc¹l f q/
pquc o gi j cn0 O^a t o ci c c| c v² p{ ku o gi j³/₄ m¹gpv xq¹w.
j qi { pppgmc vgrn¹pgm gn | rgi ku wrc¹l f qpquc xqn0 O k kn¹a dd
gi { vgr¹ ¶² utg i qpf qnw¹pmxqpc0

Co knqt o^a t gi² u| gp dgu³/₄² v¹ f gw. o gi n² t f g| vg v n¹Äp¹
j qi { i qpf qnu¹ f wpm¹ g o^a t² l lgrku^a n¹ ut> r0

ô OkA

ô Pc. j^a v cmqt eucm p² | | gv¹m dg c hcn¹dc. o gtv c
r ctcul vqmo^a t r hgnÄf vgm² u pgo rgu| j gn| j qnc¹mf pqvqn0

eucm c ul go Äxgi gu xgp² i p¹gm cf j cv u^a n¹ uv. nÄ¹Äp/
dgp ku c| v p¹qncv¹ux² tg c| kngv 0 O gi ku eu>n¹qnc o k¹f l^a tv0

Fg tgi i gn nqt^a p i { gtvgm xku¹ c. ²rxgl pk c vgo² u| gv¹v
ô o qpf v o² i 0

—i { ²tg| vgo. j c ³/₄ r gtegp dgnÄn pgo v³ xq| qo kppgp.
c i { kmquc rgu| gm j q¹rwucv³ tkwo xcp0

C dca^a vqo mgi { gp¹gugf gw ²u c n³/₄ gvngl ngv o qpf v
pgnk c vÄ¹ mgtge ner w^a d>n xku¹ chqtf wxc<

ô K¹ghki { grl. vg r ku| qm vg c| v ¶ vcf pgnÄp¹ m j qi { xk^a /
o cp rgu| Äpn0 f o l>n hki { grl# Ok o quv t³/₄ v³/₄ j c| cwc| wpm
²u o²i c j clpcrc >t^a mlcp hgmgtguÄp¹ m gi { xk^a o Äi { x² f gv.
j qi { dgr gtgrlÄp¹ m v i gf c xcuÄk n³/₄ u² i gn² tv. vg dkcp i 0
P c. i { gtg. V kxcf ct. x² i g| vÄp¹ mxgr0

C\ CTCDU P[GI f TWU

KlÀ^ai qo grv pv kf gl²dgp c r^atkuk Tqvqpf g/n¹x²j^a| dc
gm²r gu| v gp hcpwul vⁿwu cⁿuⁿml^atⁿen⁰

O gi lgrgpv r²rf^awn gi { r qecnu À xcucrcwcp. r ku| nqu
wⁱ^adcp. c hgl²p n¹4²ro ci cu lc|²mⁿen qttⁿ(wⁿi dcp ctcⁿ{/
nctkn¹xⁿ n¹4²kpvgw gi { gv. ng²Àw²u n¹x²v n²t⁰

ô Ngj gmgv{ k vllgn ô o qpf^v u| ki qt²Àcp² u o wcvw/
w^l^avc rⁿxgi dg go gng⁰

“ tgi p²nu| gtgmgⁿ vgrci i cwc. o kpf co gmgw nen|/
nⁿrk³p{ m²Àu xgn nku d t³/pffgn j>pc cⁿw l^atv qf c< nu/
p{cⁿqv n²tv² u gi { r qj^at vlgw⁰ C nuⁿ{cⁿqv n¹kw. nku d /
t³/p^l²v o ci c gr² vgw c| cu| vⁿtc. n¹xgw dgn rg gi { hgp w
n¹ {>v² u o gi kcwc xgrg i qpf qucp c vlgⁿuⁿv. n¹4 dgp n¹4²À/
n¹4w o kpf gpnk n¹grv c j kf gi 0 M²u dd c j³4i { wⁿqⁿcp xku| c/
vⁿw c pci { n¹ {>v c nku d t³/p^ldg² u n¹r qi qw c i { t^l²xgn
c o^atx^ap{cu| vⁿrp<

ô Hk gpl#

U kcttc i { Àvq^w 2u n¹o qtcⁿ v²xq| qw⁰ C m¹qt o²i
eucm¹ku¹ guo kn²gp euqf^a m¹u| qwc| go dgt⁰

C n¹ {>u j³4i {³/p ku v²Àngw gi { o^aukm j³4i { . cnk u²r gp
hglrgw v¹tkuⁿ v²tv dg w| uqpp^a| p¹0 C v¹tku ku o gi n¹x²| qw
gi { h¹pv j²Àv. fg tgwgp²gv²gp o qti qw n¹4 dgp⁰ C j³4i {
kf n¹4 dgp gn xgw c tg¹kn²À²d n gi { Àxgi n¹4pkv² u nku²
o gi m¹euqnc xgrg c v¹tku⁰ C n¹x²j^a| n¹4³/p²i g. w¹lc
K¹gp o k²tv pgo v²tv²wc gl v grgi gp² >xk¹v²| ngf²upgm² u gi {/
o^auj^av²tc o^au| xc dqt¹q²w²mhenc| cu| vⁿqⁿv²u u²ngⁿv⁰

L^atv kf g gi { o qf gtp crquvⁿ ku< j quu| À j^an¹kpi dgp.
o gl¹ d. vqt| qpdqt| u| cⁿi mⁿen cte^adc n¹i > j cl¹cn⁰ Nko qp^af²v
kxqw crt> n¹qv¹qndcp² u c|²i h¹r² h¹qf¹q²wc cte^av. n¹4 dgp
o²n¹gmgv r²rgi| gw⁰ O gi cⁿctvc x^ancpk c xk¹i qw⁰ P go
w¹qo gm²r| grpk k¹guo kxcrej c ku kngttgn¹tlq⁰

O ci co t²u²t n ô u| k¹v²p dgxcⁿo ô . gt u gmgp/
^an¹uv hglv²m nk j c ctc cⁿctp^apcⁿ n¹p{u| gt¹gpk j qi {
j^an¹kpi dgp n¹o qp^af²v ki {co gi { n¹x²j^a| vgtcu^ap. c| | cn
c| gm²r| gr²uⁿ j qi { gl xqⁿpc u^ao qo tc c o gi x^an²u⁰

Fg l^atv kf g gi { u|³/p{gv¹ ku< c| cted u| p{gi^atwu⁰
G¹kp²gi {ngf^x gp p²| vgo . o kugo uglv²g g¹xg²vo Àm²i²t n⁰
M¹l^ap u| p{gi gm¹uⁿm n¹i vⁿem uqtte l^atv c|³u| gu cu| v/
m¹qv²u^atw¹xⁿk¹i cwc go dgt^vtuck⁰

Gi { gvg c n¹4xgv¹ m¹v⁴v²pvgⁿ

Qw Àng⁰ c vgtcu| qp gi { h¹ko tgp¹gl xgn²u²rrgp ctt>n

dgu² ni gw²pm o kn{gp ki c| u^a i wrcpwn pci { m²4pdu² i gm xcp/
 pcm gi { gu ngtgugvk hqt^a uqm n²4 3/40 Ngi lqddcp ngtgupgm c
 pci { p²g d²zclp²qm w²pc l³ppgm c h²ro ul² v² tqn0 Fg
 x² i gtgf o² p { dgp o kpf gph² rgn² r r gp eucnku c| A² ngvo dgtgm
 ngtgupgm ki c|^a p *o² i c| gn ddkngp ku ngtgupgm0 Kc|. j qi {
 gjj gl c hqi rcmu^a uj q| gn dd r² p| ngm fg o gi kpv eucm pci {
 ki c| u^a i wrcp^a i c c|² r² vpgm j qi { c| ngtguj gv rgi v²4ddv. cnk
 o^a t co A² { ku vgrg xcp r² p| | gr0

G| gm w² p lgrgpv o gi c| cu| wrcpwn^a n c| ctcd ul p { gi /
^a twu² u gi { ul go r kncp^v u crw nix^a rcul x^a p gpi go c v²4ddk²m
 n²4 A² n gi { | ugd>t^a vcnctvgrcf pkp²ng²o ul^a | 3/4xgp htcpn² t v0

~ t^a o xq² r² xku qp^v ul^a | 3/4xgp htcpm² n pgo tgpfgmg| /
 vgo .^a o c| ctcd ul p { gi^a twu gl vpgo wfj cwc0

C h²ro tgpfgl gt² n { gupg r² kpv² v² c p²gxgo dgp0

ô P go ngmpgnkugo o k0

C| ctcd gl v wfqo^a uwn ug xgwg² u vx^a ddtc ku gt ul c/
 n²4n²qf qw. j q² r² w cmt² o^a t A² { vgw²pm o k² v² c qw ug r² gw
 xqpc0 Gttg n²4 p { gf² p r² A² v c o gmgw²pm r² x ul² mtg² u gn tg/
 j clq²xc. n²4 xgv²gp c| qttqo gn wo wqi cwc c| »t^a l^a v0

Tqpf. c. m² eunqu. q² r² lqu/dctpc ctcd tg xq² r² c| qp² n²4 A²
 h² n² j ci { o^a v² gj gvgwg² d² f t g0

T²4 v² p h² n² | »n² qwco c h²ro tgpfgl v. j qi { k² v² | ngf /
 l² m o gtv uq² n² ki pgo d² f² qo c| ctcd n²4 gn² v² v. o² i gi { /n² v
 h² w» r gte² u gul o² r² gv²gp A² h² q² qm² r² h² q² t w² p² kc ul² nt r0

C| ctcd o quvpgnkdgul² n0

O gi j civ c| crlc. c| cp { lc0 Qwj qp nk²gt² xg h² n² | gp² gm
 c| g² d² f n dgp² u o c o² i ugo o kvugo cf j cvqwp²gn²kg² d² f t g0

ô P gm²pmulpeur² p| A² p n0 P go v² j gv²pmugo o k0

ô G| pgo ki c|. ô o qpf v c| ctcd0 O k v² n² p pgo ku
 wf lwn j qi { o kn{gp »t^a t» n xcp kw ul »0 G| c| »tc c x² | crw
 ku l^a t0

C d² t^a vqo n²4 3/4ng xgrg. j qi { eugr r gv ugo xcn² ul² p .
 j qi { gl gpv² n² x² | cr² o gi { A² pm o gi p² | pk j^a p { »tc xcp0

Xc² r² nk^a ul »n² j q| |^a pm gi { ul qo ul² f cu| vcn² »n pg ngf² /
 n { gungf l² A² pm c| ctddcn o gtv uq² j c c|² r² v² dgp pgo t^a | | wn r²
 v²4dd²0 Vwf gi { ul gtgpeu² vgp urcp { qn wtku² t »n cnk² gi {
 j² v² ki n²4 xgv² c| ctcd0 O^a t l² n t A² v xq² r² c wtkuc² u x² i A² n ku
 xc² ro k r² d² v²4 n l² r² v xgw v r². A² { u »n^a p c o gi t A² r² u m A² | 3/4
 d² p0 L » r² gu » xcn² qf pk² u pgo grgi { gf pkxgrg f kum² | wudc0

C| ctcd o quv h² i v w² pf qm »t^a l^a v² u dgn² i cwc c h² n² gv /
 n² x² o dc. w² pc c h² A² go j gl go gng. j qi { j cni cuuco eucm
 j qi { l^a t c|² t v0 Fg j q| | wpm kf g cn² to kv. dgrgvul k cddc ku

c| »t^av< hqt» h | gr²ndg ku dgrngvul k w³pc o²i ku l³tpk hqi 0
 ©xgi lg gn^{3/4}j gvgvgo 0 C| »tc v |^am»0 V | dgp. x[¶] dgp h^{3/4}f /
 tgp²udgp l^at0 C| »t^av gi {u| gt gp ci {qp rgj gv xgtpk w³pc
 t^{3/4}v p hgn²m²u hgn²cn¹ l^at0

C| vo qpf lc pgngo c hko tgpfg | <

ô G| gmc| crcnqm u| go h²p {xgu v n0 P g p² | | gp c u| go gk
 n^{3/4}2. o gtv w»dd j k p q v^a rlc0 O²i o gi²tl¹Am j qi { o gi /
 xgu k g | v c | »t^avv rg0

t¹Agv#O^atku²tgl vgo xcrcv k^alw²u²r²v0

ô P kpeur²p | 0P go ngmc | »tc0

C| ctcd rgdqtwvc | cu| vrc u[¶]pk0

T^{3/4} v^{3/4}p hgn²nwpm²u h² gw²pn0

C| ctcd w³pwpml^{3/4}w0

C| vo qpf lc c hko tgpfg | <

ô K gk²p pgnk xcrcv k p g xgw²i gu^atcv cmqt o gi /
 f¹Āj^{3/4}km²u rgt^a | | wn^{3/4}ntg0

ô O qpf lc o gi pgnk j qi { v[¶] hcpnv cfqm²vg0
 Co kv g | v o gi w²v c | ctcd. pci {^a w[¶] | »f^auqm n^{3/4}dgp
 h^{3/4}f j^{3/4} eucr nqf v c u | p { gi gk0

J c l q p o gi kw t^{3/4} v^{3/4}. j c u^a | hcpnv cmw qf ccf lc0
 P c. cmqt o^a t ci qpk^a rj cv0

ô V[¶] hcpn0V^{3/4}ld plpeu0

Gtg c | v³p gn c tcf v. fg cki vgw²pm u^a | r²r²uv o^a t
 Ātc gn w²pmxqn0

ô J ci { l q p d²n²v pgn²pn0 Gppgm c | Āpcm *g | xqncv
²p+eucmv[¶] hcpn²xcv0

ô M r g p e x g p h c p m² u r g i { g m^a w[¶] | q w. c o k² t v g r f v c o 0

ô V[¶] hcpn0

ô P { q r e x e p. f g r g i { g p^{3/4} n t g o q u q n { v c r p c | c t e q o 0

ô V[¶] 0

ô J g x g p. f g r w | w l q p n k c e u c r² f q o 0

ô V[¶] 0

ô J c v x e p. f g g u g p n k c n² v u | g o g o 0

ô V[¶] 0

ô .. v x g p. f g n^{3/4} l² m r g c u[¶] i q o c v 0

ô Gtg o^a t p g ku x^a r u | q l q p. ô w c u[¶] | q w c o c h k o /
 t g p f g | v 0 ô J c^{3/4} x g p h c p n p^a n o^a t e u c m c u c l^a v u[¶] l^a v w f l c
 r n^{3/4} g v p k o q u v n^{3/4} g w g l Ā p m o k | u g | c | . c o k o^a t v u | v² t c
 h^{3/4} u r g i g u 0

Xku qp v c | ctcdqv pgo rgj gvgw grkp² | pk0 Gi {gf Ān ku
 w²q w c m w² p k 0 P g i { x g p^{3/4}. f g d² p w l q p o g i 0 *O k c | . o^a t
 o g i k v² n^a P g i { x g p. f g g | r g i { g p c | w q n » u | ». c o g n² n k l^{3/4} p

c ul^al^ap0 J cto kpe^{3/4}. fg xgu| gp ²j gp. jc o^at kn|gp
j Ñng0

C v^{3/4}ddk^avnqnev o^at pgo ku jcmqwwm o gtv gmnqt o^at
n²v²i dggugwgp ul crcf wpm fg c| cted o²i c ul p{gi gmngn
o gi tcmqwp kuc p{qo wpm|cp xqn0

Gi { Ñngtgu| v| f²up²ngre² gwo kpngv<

ô V². ô j^{3/4}vg ô v²un^{3/4}lgpgmg o kpf c ngwgp0

ô Pgo n^{3/4}m^{3/4} htcpn²t0

Gttg Ai { hnd ul Ñv²u Ai { hqti cwc c ul go gkx. ô c ul^alc
o²i jcd|qwku ô jqi { ²ul p²m²h²gwgo 0

C ul^a | ^{3/4}xgphcpnqu »t^avqf ccf v v²t0

Hpcul kmw xqn0

Nkj gi xg o gi p² | v²Am gi { k²o rc crw0 O^at cmqt ku
i {cp²ncp ngv{gi gw fg co kv c| cted dghqtfwv c| wecut/
nup ²u v^{3/4}ldgv o^at pgo f²wm cddep c ul gpv rkrpcvdep
c| »tc ku o gi^am0

V | dgp. x²dgp. h²ftgpi²udgp. hqt> h | gr²mlgp nkd²v
xqpc. fg v² { . c r wul v. eugpf gu ngxgi p nko Ñn0

FCNNQUUf PFQT

3; 236

V \ R| VGT CUU\ QP[VU\ GTG\

J^atqo j gvg o^at²x^ai {c ugo xqrv V | R²vgtpgn0C| Āti g
nkvgw c| wqin» u^an mwnqtke^al^av ku= c dqt1A xci { o^aul²n
j gvg nk^{3/4}vg c n^dv tqpi {^atqp xgwg o gi c o²u^atqu=c j^a| /
hcn qn{cp. o kpv gi { tci {cxgtv eki^ap{rqhc=c | u^ar qv l»eun¹p
hgmto qnc c j^a| vgv p c u²n u o²i l». j c dg pgo euvtqi
c rcf n¹ut c| gu . c n²o²p{d n rqv{qi c v²i r=c vqtp^ae
vr cu| vr¹vcp= cmqt c n¹wnem xppcm telv. j qi { o clf c
p{gx²v j cterlc gn c| go dgt. j c guvg u^{3/4}2 wgn xgv f km j c| c0
J cl. mw^{a2} ngu| kvo kpf gp j co ctqucp. j c 000

G| c j c o^at j^atqo j gvg Ā^{3/4} gwg c u| gi gv V | R²vg
hgl²dg0 Gn u^{3/4} eucm ngt Āi gwg0 F g c| v²p ngl f gw pgo ¶ ngpk
c| f i pgu p²pk h | vlg. ngl f gw tquu| ngppk c j qi { nkscnet¹lc
c u| qd^av. c o crceqm uqx^ap{qf pk ngl f vgm²u| tgxgx f^{3/4}w.
j qi { c v{ Ānqnev nqr l^am u Āi { vgu| gw. o kpv c c Nku| n¹ ku
ngxgugdd vlgv cfpc. o k²v c| f i pgu p²pk xcv{ct^au| c c
v i {²v}

G| w³p l^{3/4}w c dqt1Ā n^dv^{3/4}2 ug u c| gi {²d dclqm²u| tg/
xgx²ug ku dghglg| v g V | R²vgt c j^atqo j gvg o gi ngl f gw o qp/
fcvq v j qi {< j gl. mw^{a2} ngu| kw j co ctqucp o kpf gp. j c
cuu| qp{ pgo ngt Ān xcrj qpp²v c j^a| j q| 0 Ogtv n¹o. o ¶
| u»hk cuu| qp{²n. qn{cp xqrv kw o kpf gp. o kpv c r cv{qrv0
J k^adc. cn¹to gpp{ktg j gwgpngf km ku c l²thgo dgt. eucm
cuu| qp{²tv c j^a| v¹l²m f qni ckj q| 0C| go dgt² c h^{3/4}f 0Cu| qp{
ngm pq0

C vxcn{k nē| cn v^{3/4}2 dgp^amv V | R²vgt. o knqt o kpf g| v
j cpi qucp o c i c gr² o qpf v. eucm j qi { lqddcp gj k {lg.
j qi { k i c| c xcp0

Kv c|v̂p dghr̂ vgnkpv̂w R²v̂t Àt u^ao wut^ani cwc
o ci^av. o kpv̂ gi { gr̂j cp{ci qnv̂ n̂xcv̂ u| qn̂^au. co gr̂{d n̂nk̂gv̂u km
c l» x²t0J o 0P gi {xgpj²v²xgu ŵ{cp. fg d̂^alc o²i gt xgn
u o gi tgo gi c u|^akg u| qnp{cuwj qi^au j cncv̂p. cñt j wu| qp³⁄⁴
²xxgn cppcm gn wg0 O gi c|v̂p^a u»hk cuu| qp{. Kvgp pg j^ap{lc
c o^au xkñ i qp c u| go²tg. i {gtgm p²mĀñ j cñ r̂q| x^ap gn: gi {/
r^at xluqpi ». o cf^atĥ u| ngv̂ n̂gtgu i {gtgm ku gm̂r̂gp c j^a|
n̂⁴Āñ Xĉro k²m̂r̂gp tq̂u| n̂⁴v̂j^atqo n̂⁴ñ^a⁴m̂ qn{cp u| go gn̂
ngn o kpv̂ c n̂tdŵpnŵwu u qn{cp r̂kqu cteq̂m̂n o kpv̂ c r̂ñ^ad^a/
pqucm̂ c0

Eucm pgo j ci {vc p{ŵi qf̂pk c i qf̂q̂rv̂ u xcu^atpcr ku
gl gm̂gn v̂tj gn̂gp o gpv̂ c v̂go r̂n̂o dc0 DgĀñv̂ pci { n̂⁴p{gn/
o gugg c r̂cf̂dc u o^añ c J kpv̂u o gi k̂u»r̂r̂cn̂v̂ n̂cp{cti cw^am
x²i ki o gj gv̂w u| go g c| cuu| qp{qm̂ n̂⁴⁴⁄⁴0 P²| v̂g g| v̂ ku.
c| v̂ ku. x²p n̂ŵlqp. o²i c n̂⁴p{qm̂ n̂⁴⁴² ku dgn̂eup̂kqv̂w fg
c|v̂p eucm ³⁄⁴xgi { I ŵ^au O^at v̂qpp². u| Āngv̂w R̂crr̂ M̂ĉv̂k̂p
j wu| qpj²v̂gu| v̂gp^a u ĥqto^a k̂p cncf̂v̂gnc u| go g0

Gi {u| gttg ĥgn̂u cncf̂v̂ c u|^akg c u| go²dg0 O wut^ani cwc<
l» u|²n̂gu^amĀ c n̂etlck gt ugm̂ gn̂^alc gl c ucl̂v̂tv̂ cñt gi {
n̂⁴|| gnku. c f̂gtgn̂e k̂o qu. c eu^af̂glg o gi qn{cp. o kpv̂gi { o²|| gn
v̂gn̂ n̂er̂v̂^at u c j qi {^añ c| Kvgpj gl m̂Āñ^a⁴ i gk̂c|² pgmo cf̂ctck̂.
v̂gn̂ p{cnĉ qn{cp^a j^añ^av̂qucp j c l̂km̂ c j cpi uqf̂^adc. cñt c
i ĉro d²0 G|^ao c| cuu| qp{. ^an̂er̂^añ^aqwc o gi V| R²v̂t.
gl^ao c ĥgn̂u² i pgm̂ xĉn̂0 U Kvgp tk̂ v̂g. j qi { pgo eugŵkpv̂w
j q|^a0

O^at o quv̂ pci { u|^apf²m̂^av̂ o cf̂v̂ dgppg u j qi { f²n̂w^ap.
nk̂^aplc ŵ^ap n̂k̂Āñv̂ x^atpk c| cuu| qp{v̂ ô o gt v̂ j qi { ctte n̂gn̂ŵ
c p̂cm̂j c| co gppkô gn̂/gm̂ quqñ{qf̂ qwu^a pf²m̂ p̂cm̂² dgtu² i² p0

T^a ku nk̂^an̂q̂wgi { d̂cm̂i » kuo gt ug<

ô Pq. ³⁄⁴gi euk̂m̂. |cdqvt^a | p̂cm̂x̂ĉj qn̂A

ô J^av̂ t^a||^am̂ ô uwp{qtk̂kpv̂w xku|c R²v̂t Àt u eucm
x^at v̂qx^a dd0

I {³⁄⁴p{³⁄⁴ u²i gugg uĀñ^a⁴ŵ c o^al wuk̂ pcr. Āi { l^awu| qw
u|² n̂gu cte^axcn̂ o kpv̂ gi { l^av̂n̂qu. o gr̂gi cuu| qp{v̂gp{²t. u|²n̂
pgo x̂q̂nv̂ gi { ĥrĉv̂ ugo u j^atqo v̂{Ām̂ ĥĀf̂^a⁴ŵ nk̂pv̂ c l» o gr̂gi
r̂qt̂dcp0

O^at c u| qo u|²f̂ j^a|cm̂ r̂cf̂lck ku n̂g| f̂v̂gm̂ p²r̂ gugĝpk
o kn̂t l^a⁴ŵ c| cuu| qp{0 Pci { n̂⁴p{gugg f̂gpeĀñi gŵg o ci^av
l^av̂n̂qu f̂gtgn̂e Āi { l^awu| qwc^av̂ c o q| i » n̂^ad̂cm̂ tk̂o ŵ^av̂ c
o gn̂pgm̂² u c x^an̂p̂cm̂ qn{cp euqf̂^an̂v̂qucp. o kpv̂ c| guk̂ n̂x̂gi
c j ĉcpi u| »0 Cte^ap c|² tgŵ n̂⁴⁴v̂g² f̂guu² i g i ³⁄⁴0 d³⁄⁴ñ ³⁄⁴⁴⁴ŵ
u c n̂g| gkl^awu| qwĉm̂c u| qnp{^al^axĉñ0

V | R² vgt pgo ku^a mc c| v c uqm nfk^a pcvqu^a i qv u j qi {
 qf c² tvo gr² lg. eucm nkp { Àlvqc gr² dg c r² d^a v0

ô J qrr^a 0

C| cuu| qp{ u| go g t^a xkncpvo kpv n² vo grgi u| À^a u0

ô Glp{g. o^a t o clf pgo grglvgw0

ô Co o^a dcl rpppg ô xki {qti qw V | R² vgt0 ô O gtv
 cuu| qp{ eucmcmqt gu² m j c r vj^a tc guj gvkn0

C o gp{ geung hji ckv n k x kncp vqc c p g x g² u0

ô F g l» ngf xg xcp dqm pf q| pl0

ô J^a vcnrf gddgp c n g u g t x g u x k f i d c p 0 J^a o² u| A

ô J^a o gpp² mAJ c| c0

ô Glp{g ô »i qw/o »i qw V | R² vgt0ô

ô Okv eulp^a nu| qvj qpA Pgo Æp² n kfg o gr² o c
 r cf tc dgu|² ri gvpk gi { nleukA

ô Fg pgo^a ô xkncpv c| cuu| qp{0 ô Ukgvn0

Uo^a t vgw. o kpv c kpf wpc0

Fg V | R² vgt qn{cp rgi² p{ xqrx j qi { pgo gpi gf gw
 j c gi {u| gt dgrngl f gw xcrc0 klg0 Eucm nkp { Àlvqc Àtc c
 r² d^a v0

ô P q p q. p g x^a i vcu0 Ukgv go dgt p g m u^a pvc n» p c m h p g
 j cu| p^a vug r² v c c| go dgt0

C o gp{ geun² d n p g x g² u u| c n e f v. o k p v c n k v c h Æ² p
 h x g n e u k n c p f q| p c n 0

ô F g l» n w i i { c 0

Qn{cp p g x g² u g x q r x. o k p v c e u w i c v q w o² | 0
 H g n k u n e r v e t^a V | R² vgt c h g l² v0

ô J . qn{cp vqt n q f x c p. c n² t c i k l e² p g n 0

ô P g d q m p f q | |² m o^a t x g r g o 0 O g p p² m ô j g i { g u n g f g w
 c o g p { g e u n g u o g i t^a p v q w c x^a n^a v. o k p v c j t c i w f p² m c
 d» n² t v0

Fg eucm qn{cp eulp^a n j t c i x q r x g l. c o k l n n k r k q u r q w
 c l» r g u² u. o k p v c e u g t g u l p { g c r g x g r g m n² 4 Æ0

ô P g v g. p g ô² f g u n g f g w V | R² vgt0 ô O² i c i { q p /
 t Æ i u | 0 O^a t e u c m d g u |² r p k u g o u | c d c f x g r g f A

ô D g u |² r p k² r r g p u | c d e f ô c f v e x k u | c c | c u u | q p { ô
 e u c n j q i { u g o o k² t v g m g. j q i { k w r q v^a | | c o c | k f v0

ô J c j c ô n e e t^a u | q w V | R² vgt ô O² t p g x q r p c
² t v g m g. o k n q t² r r g p j q i { x c p² t v g m g 0

ô | t v g m g A ô P² | g w p c i { q v c o g p { g e u n g 0 ô O k² r g
² t v g m g A n f k^a p e u k u n q f q w 0

ô J^a u | g p c |² t v x c i { q m j q i { o g i o q p f l c o . o k u | g t k p v
 o g i c n e t q o n² t f g l p l 0 0 0 0 g i h j i v c n e t^a v e | c u u | q p { p c n 0

ô Okv cnet c ng|go o gnA ô T^apf[¶]qw gi {gv o ci^ap
2fgungf p c o gp{geung0ô P go c o ci^a20

ô | rrgp kw c| 2tvgr g ô pgxgwg V | R²vtg ô j qi {
pgo c| gp{2o0 Ogtv 2rrgp c|v cnetqo nřtf g|pk j qi {.
k² 000

O gi hqi v c dn^Àv c| cuu| qp{ nct1^ap. o qt|uqri cwc c
rcv|qrev cuu| qp{ngro 2v d^Àv{nř^u wlck nř⁴3⁴w. tcxcu| cteqv
euk^an0

ô Okv cnet o^at xrgo A ô v^Àgrn gvgpngf gw c o g/
p{geung0

ô Ugo o kv ô ^atvrcpnqf qw V | R²vtg ô eucm 2rrgp.
j qi { o gi cnetqo nřtf g|pkv rgf. o gpp{k²tvcf p^af g|vc h k²pw
ekj^avA

C| cuu| qp{ j gi {gu nku u| cxcn^{evr} cwlpqw0

ô Mkp gm ¶| {. nkp gm Ài {0 U^a| | u^am d^Àa²tv xci { nř v
u| go nř⁴v²t⁰V | R²vtg c| cuu| qp{ vgrnct1^avuko qi cwc0

ô G| gn c r^atp^axcn gi {^Àw cf p^af A Ogtv l» crx^au guj gvkm
telv. cpcmcnkpggo ^am qu0

ô Pq. gtt n c r^atp^at»n wi {cp crki j cmi cvlc c n^{ev}
mwnqt²nq^uuv. R²vtg d^aeukô pgxgwgweu[¶] ug p M^{cv} cuu| qp{0

V | R²vtv rgi 2p{gungf ngf x²dgp grhwqc gi { nleukv
c| gr g gttg c u| »tc0

ô D^aeuk^a o c| 3⁴gi cr^af. M^{cv}. pgo 2p0

ô Pq. p²|f eucmô j ctuqi qw c|0ô Gugw n^{ev} hrcpm
wi tkn0P go d^aeukA^Wi {cp j^ap{ 2xgu. xcmlc dgA

ô Pgi {xgpn^{gw} ô j c| wfqw rg tgp^f ^Àrgv^{gp} p{wi crqo /
o cn³4²xgvc| kf gl²d nR²vtg Àt0

ô U²r kf ô euk^{rgn} f³4vc| cuu| qp{0

ô U²r ^ao. mw^f^apcm ô dgt|gpngf gw c rctcu| v0
Go dgtpgm ugo o k0 Cwⁿ o 2i v⁴3⁴n dcuc rgi vgn0 Lxc ^Àf 0
Xci { c v^g j cto k^{pe}3⁴gul vgp^f f pgo ^amlc c pgi {xgpn^{gw} vA

Lⁿ wf^{vc}. j qi { j cto k^{pe} ul^{peu} c| cuu| qp{. fg xku| c
cnetvc cf pk c nř⁴eu³p⁰ G| ukngt^Àv ku. ogtv c| crcr qucp
f ^Àj dg i wvⁿ0

ô J qi { j cto k^{pe}3⁴A Fg c m^u^av ug wf^{lc} cf f ki tc o gi /
t^ai pkc V | Àt. o ktg²p j cto k^{pe}3⁴rgu| gn0

ô Oclf o gi t^ai qf v^g j gn^f gwgo ô pgxgwgR²vtg Àt0

ô J qi { 2p/gAP q cwⁿo gi { c hrcpm0

V | R²vtg 2fguf gf gp pgxgwg0 Tgwgpv gp vgw| gw pgnk
c| cuu| qp{. j qi { Ài { j ctc i wf^{qw}0 Eucm h^Àf gw^g o ci^av c
u| cxckdep. ogtv gi 2u| u| »^a tcf cv | ^Àf wv o 2i t^a0 Eucm pgxgwg0
V tv^g. o k^{pv} c h³4f c p^f^atkgu v0

O gi ku o qpf vc pgnk<
ô O^at gl v̂p v̂i gf o kpf ki o²ti gu[¶]ngm qn(ul²r xci { .
o knqt j ctei ul qn0

Gttg o gi ul grff ãnv Mxc0 Pgxgvw< o gi ek>i cw⁹n0 O gi /
tgli gwg c fgtgn̂v o kpv c o ceun0 O gtv V | R²vgt ul²r
go dgt xqnv o²i o quv ku0 C j clc o²i gi²ul gp hngvg. cl ctec
r ktqu. c ul^alc ul²rgu²u[¶] rgn . c o gmg o kpv gi { r cl| u u c eqo dl^ap
hgu ãnv pcft^ai 0

ô O gtv wfqo^a o²p ô hqn(vcw V | R²vgt ô j qi {
cl ul³p o ãn⁹n j wul qpj²v. eucm j^av j ctei ¶cpk cnetvcrm
gi { nteuk0

Mxc cuul qp{ ul^al^ad»ndko d>| qwc pgxgv²u0

ô Pci { o guvgt o ci c0K gp²tv0

ô J^av ô f qdqw o ci^ap gi {gv V | R²vgt ô ncvpc
xqnc o c j^adqt ãdcp00²i r gf ki to guvgt0

ô to guvgtAô n̂tf gl v g rkuo gt rgi c o gp{ geung0

ô Lclc0

ô Ugdgu ãnv kuA

ô M̂vul gt r gf ki 0 Gi {ul gt c o gllgo gp. gi {ul gt c netq/
o qp0K g p²|| 0

Hgnv tv g c netl^ap c ned^aqv u c j cvcm cu k o qm n̂4³av
qwxqnc i qn>» ugd²pgmx^a lvp{ qo c0

ô PqA ô n̂tf gl v g0

ô L>nqt c ugd rj gvgw. euqf^anc c o gp{ geung0ô H¹lvA

ô J^av ô i i³un̂4³av V | R²vgt ô cl²tv ncvpc cl
go dgt. j qi { klgppgmqf c ug p²|| gp0Ugo o kgl . eucmh ãv vgo 0

ô Pgo ĥnvqwc j ctev²tgpA

ô Pgo²p0 f o d^avqt mw{c xkfi xqnv p²j c0 Uqnep
o gi j cncn0

ô O gi^a o ô ĥv{ qnvqf qw gn c o gp{ geung ctec0 ô
C|²p wco ku c O ctekl0V[¶]mw dc0

ô Vwfqo²p0 Eukxk^a n̂dc n̂wco . o knqt o gpvgo c
netqo o cn c urk^andc0 C T^ae| L>un̂v mgtgungo n̂4 dgp= cl v
cnnqt p{ qo w o gi cl^ai { ãul²n0 C j qi { o gi { gm dg c ner wp.
j^av eucm j ql pcm^a o j qtf^ai { qp rvcnetxc xcrcnk0 Mk gl A
n̂tf go 0 J cqw. cu qp i {^an0 J cqwA o qpf qo 0 J cff p²|| go
o gi . j^av j c kuo gt u0 O gtv c Dcrji Hgtm>v ku ãi { n̂wco gi {/
ul gt0 Ĥñcnetqo . j^av cnnqt n̂wco . j qi { c O ctekl0 O qpf v̂ m
cl v̂p. j qi { c v̂mwul xkwg gr0 Qlcp uqx^ap{ xqnv ul gi²p{ .
o kpv cl ci^at0 O qpf vco ku o kpf l^atv< U| gi²p{ Rcr r Mxk
cuug i qpf>llc o quv j qi { o^at³4 xgi { cuul qp{0 J gllcl0 Fgt²m
go dgt xqnv ki gp c O ctekl0

ô Fgt²m fgt²m (0) ô o qpfvc c| cuu|qp{ u c xkuu|c/
go rñngl²utg pci { r vñmnñ⁴pp{ gmñngmnc u| go ²tg0

ô J cl. fg u|co^at xci {qm²p0 O²ti gn f^{3/4}w V | R²vt.
j qi { kguo knv o qpfqm pgnf. o knqt c|v ku gro qpfj cv^ao .
g|v c hñlgv j qi {cp hqi wco pgo uqmmen gn wg. j qi { c O ctek
ñ { ñ wco 0

C| wf xctqp^avc p{ksqw nup{j cclwð»n xcñdcp gt u rkw{/
r cñw{qñ^auj cñw|qw0

ô J^av wf qf. c| Æi { xqrv ô vqnc hgn R²vt Æt c nñ/
nr l^av ô j qi { xgf gwc xqnc o. co k cpp{kv lgrpv j qi {
nkv j cucnc o c ft»vnp^an v²ti {ki xcñ» h dg gi { kv^{3/4}pm
o ^{3/4}^{3/4}w. qu|v xki {^a|wco 0 J^av cj qi { qw xki {^a|qm j cmqo
^ao gi {u|gt eucm j qi { gn wgo . Æi { ^{3/4}r²utg. xcño k ttt. ñ {
euk^an0 Pq. o gi pgu gn go gi { nleuk0 Ok nji gv Æ Gñqi qw c
nñ^apeuk^ai . o gtv wff o gi ²mrgpv nñ^apeuk^ai xcp dgppgo 0
Qf ceuñ|qo . cñt c o ceunc. qf cñr qm j qi { gñuñ lgo .
cñt o k c|0 J^av g| c hñl xqn0 Xcño k ²tg. o gtv pgo wff qw
tgr Æpk eucm xgfgugw c u^atp{^axcñ0 O gi hqi wco . dgrgwgo
c ukr nñ o dc. c| v^p. j qi { hñ^anqwm dgxkwo 0 Mñrññ v
euk^anco pgnk gvgwññ nñ v j²ki c| gi²u| ewi j cpi {c/
vñ^auv ngtgugw pgnñ ñ { c| v^p hñ^ar Æñ0 Vw qf. qñ{cp l» xqrv
o knqt j cp{cw hññ v c| go dgt. dgj wp{vc c u| go ²v. o²i
rñngñ gvg ku cñi xgw. qu|v c o cf^at u| »ñ. j^av c|v i qpf »j cwc
c| go dgt. j qi { kvj qp xcp. ²r r gp qñ{cp x»0

C| cuu|qp{ pci { . o guj cñi cv» u| go gmnjn cñi cwc

ô Fg u|²rgp wff lc gro qpf cpñ0 C| v^pA

ô C| v^pA I qpf »wco . o clf j c|cj q|qo . nji cñ dd nju|
c i {gtgnpm o kgn l^aw| cpñ0 O gtv ô x²ngo cñqt ô nju|
o clf i {gtgn0 Fg^av o gi gvg c hgpñ0 U gi²p{ \ uñk l» f »i qu
xqrv tgpfgu cuu|qp{ x»v fg i {gtgnv. j^av 000 c|v pgo wff qw0
C l» kvgp wi i {c. j qi {cp0

Gij cñi cvqñ0 Gi²u| u| qo qt Ængw0

ô Oquv c| v^p o ci co pcm u| »n c o cf^at0 Eucm gñcuc/
tqf qm t^a0 J^av kññ dd nññ^am kfg c j^a| gñ. qu|v p²|go .
j qi {cp hññ gpgmc r qtdep c v Æññ0

Ngi {kpvw0

ô J gl0 Eucm o ci c xcp c| go dgt. cñt o gttg p²|0
Ngi hññ gdd. j c c mw{c u| qtqpnñf km c v²tf go j ^{3/4}0 C j^a|t »n
Xgfrknc o²u|. c vgv rwu| wñ0 Gl. qlcp g| c| gi²u| j^a| . j qi {
hñcñpñmugo xcñ0 Ug cuu|qp{. ug i {gtgn0 J c nji cñ dd i {gtgm
x »pc. qlcp l» nñc^an »u nku hñw{ Æ cñk wñqt²tv nñpñ p^a c|
go dgtv. c| v^p cñqt c u| go gmnjn xki {^a|p^a c| kv^am »cl »dcp

c| go dgtl^h v. o kpv c| ¾m²o. cj qi { xcn²tlc c vj gpgv0
J gl (00)

P gj² | u| qo qt^h i qm l^a t^v m c u| go gk0 Mleukv rgn²p {wv
c hglg0 N^a u| qw. pci {qp gi {gf Ñn xcp0 C j cpi lc ku u^h r r g f v
vcr<»nl³w0² n² gdd xqn0F thj ¶k^a u0

ô O gi gu| gpi go c hpgg. Mcv0 Ugpno 0 Ug n²4(ngo .
ug xgtgdgo 0 C| v ug n²tfk ugpnk² j gu xci {/g R² vgt. dgvgi
xci {/g R² vgt. eucm xcp c| go dgt. o kpv c m²t» c| ^a tqm ctvq0
Cn²t o gi f³4 ¾j gv h²aug t^h lc ugpno

C| cuu| qp{ t^a p² | gw0 U cpcm gnkm²qw c r krcp^v uc0
O gi² tvwgw g| v c r cpcu| n²f^a u0 O gi² tvwgw. j qi { gl pgnk
u| »n. gi {gf Ñeucmpgn0 Ngj clvqc c hgl² v0 Ncuucp o qpf v<

ô O gi n²pg p u^h r pg0ô C| v² p j q| |^a vgw ô R² vgt0

ô C|. c| ô m² r qw c u| cx^a p V | R² vgt u gr²qi v xcno k
dk cnu²f». eu²pf gu dqr²qi u^a i. j qi { c p g x² p u| »n² qw c|
cuu| qp{0 C u| qp{ n² | n² pg0» f qi qu0 Hkpqo nku cuu| qp{ n² | 0

O gi hqi v c c Mcv ng|² v0

ô O kpv c v²gf. Mcv0

»xcvqcp ek»i cvc0

ô C i t»hp² pcmul²peu n²¾pd ng| g0

Eu²pf rgw0

P go ki gp wfqw o^a t o kv o qpf cpk0 C| cuu| qp{ gi {km
ng|² xgn o gi kpv c u| qnp{^a l^a v ng| f v g dcdt^a rpk c o^a ukm qw
p {wi qf qw V | R² vgt ng|² dgp0 C v{ Ñn² m j^a p {v^a m o ci wntc
c| Ñqp c r qtv u c f² n² w^a pk per p g x g x g u^h v² w j cni cv<
ctewndc0

ô O²tv pgo u| »n² A ô n²tf gl v g V | R² vgt0
Qn{cp o gr²i xqivc j cpi lc0

C| cuu| qp{ hgrt gl | gpv gr²o gt Ñn² i² d n u gr² Ñ v c ng|² v0
C| go dgtpgmtquu| vngugw0

ô O k²tvj Ñ qf gnAô n²tf gl v g0ô P go^a nj cuu| A

C| cuu| qp{ vgu² v | cxctv o gr²i u² i dqt ¶ qw c dg0 Gr/
r ktwn0 O gtv pci {qp l» xqiv ¶ {0 O^a t² i qfc xqiv c j gv{ng/
u² i g0 C u| cxck l»m rvggn0 u| kpv g cuu| qp{ u| cxcn0 Xcm² m² u
nleukv u|² i {gpng| ¾n0 O gr²i gn0

ô P go c|² tv0 F g kvc| we^a p. pq00 kpf gpnk² vlc000

ô Kc| ô j ci {vc j gn{ dg V | R² vgt0

Grgt gu| vgw0

J cni cvqw gi { j quu| Ñ. fg qn{cp i {¾p{¾ u² i i gn p² | v g
c r ktqu cuu| qp{v o kpv gi { pci { nkpeugv0

C| v² p i qpf qiv gi {g0

ô O clf pgo gr²ngl vgwgo o gi n²tf gl pk ô u| »n ô

xcp/g cr^afpcm gi { nku xgv mwnqtle^alcA C| gp{²o gv o kpf
nkgw²mc| $\tilde{A}i^2n0M$ pg0

ô Ciki jcpgo ô hgrng c o gp{geung euqf^amq| xc ô
o gtveucml²nj qif cvxgvgwc ngtvgnrcw0

V | R²vgt c ul go²dg p²| gw c| cuu| qp{pcn0 Pci {qp
j cpi u²q^aqucp o qpf v0C| gi²ul ul \mathbb{K}^2 xgn<

ô Ogtv cmqt gm gpp²m xcro gn{km guvg (00) c mwnqtk/
e^{a2}tv0

C| cuu| qp{ gr²tvwg0 O gi kpv ngj clvqc c hgl²v0 C dn^av
dcdt^anc0 C p{cnc ku nki {wncfv gddgp c pci { o gi²tv²udgp0
U qn{cp gpi gf gm gu xqmw cj qi { o qpf v. qn{cp dgrggi {g| .
qn{cp} \mathbb{K} . qn{cp dqrf qi 000

ô J^av eucm l³4l³p0 0 0 j qpcrtc o clf o qt|uqmqm j c
cnetlc . 00 $\tilde{A}i$ { p{qre »t^atc (00)

V | R²vgt ul go²vgr³p³4vg c o gi j cvqw³4³o 0

ô L>0

C| v³p. j qi { c| cuu| qp{ gm gpv. w³pc o qpf v ul²r eugp/
f gugg c o gi j cln» o^alwuf²nw³pdcp<

ô N³4m³o . vg 000

P | RM | NV | U | GV

F WP CO GNN | MKP | RO GUG

C eki^a p{² u c |^{3/4} f^{3/4}

Xqiv gi {u|gt c xk^ai qp gi { eki^ap{. nk c| |cn c i qpqu|
u^a pf² mēn kpf wv gn qvj ppt»n j qi { o kxgn pgnk gi { dqi ctc
ukpeugp. o clf gppgm²u gppgm c| Àtpcm c j ¶ » ugt²ugk n^{3/4} Ñ
nku cñ¶v o ci^a pcm gi {gv O qpf qo . j qi { c eki^ap{ kñgp
i qpqu| u^a pf² mēn xqiv gnw^{ikg}= Ñn^{3/4} dgp ¶u| gēnf v c|
¾f¾ i gn cnk u| k^v p f ku| p»v cētv nr pk ctt»n c dñ qp{qu
j gn{t r O qpf qo . j qi { ¶u| gēnf v m eucm gm¶ f k c|
¾f¾ g

ô J cmf/g. v g eki^ap{ ô u| kf qo c | À^a f c w# ô j qi { j c
pgo o qpf qf ku. Ñ {ku wf qo . j qx^a ki { gmu| gn² u o k u^a pf² m^l
dcp xci { < f g² p ku qf c Ñ gvm² u² p ku cddcp c u^a pf² ndcp
xci { qn< c|² tv gi { gv o qpf qm ngw ngu| dgn rg. o gpl Ñ p m
gi { Ñ w u^v p ¶ { lqddcp dqrf qi wwpn O

C eki^ap{. j qi { / j qi { pgo . t^{aa} mqw c| ¾f¾ dgu² f² tg<
gro gpvmo kpf ngwgp j ¶ » ugt² uvnr pk O

Xqiv cppcm c dñ qp{qu Àtpcm grⁱ. o gtv eucm c| ko² pv
j clvqemc o cmmt»n xci { u^a | fctcdqvj c| c O

Kv rgmgo vgtgo vgw. o k v^{3/4} v^{3/4} plm c f qm i d»n o k pgo .
c| ¾f¾ ¾v gi { vgtgo vgw i² rgm ug i² wc. j ku| c|² tv xqiv ¾f¾
c p x g O C| v³ p c| v c o g u g t u² i gv vgw o gi . j qi { c eki^ap{ v
ug xgw² u| tg ugpnk ugo O C| v³ p o kpf cnwgp dg c| » r c u nk
j clki^a ncm dgn rg xci { ¾xgp fctcdq O C| c| d¶ c eki^ap{
gi { gv ug j cl¶ qw nk eucm c| ¾f¾ pgm j ci { v g| v c o w r v
u^a i q < f g c|² tv nkpgm xqiv pci { qdd u^a lc. o kpv c eki^ap{ pcm
j qi { gpp { kv f q d^a iv nk r g f ki i qpqu| xqiv o² i c | À^a lc ku.

o gtv eucm gi { gwrgpi { gv j c l q w nk c | »rd»n fg o²i c | ku
dvgi xqn0

O knqt c | v³p o kpf cngwgp. o^at o kpv c | ¾f¾ 2u c eki^ap{.
l» fctcdtc gñj clqw³m c j q w ugt^vugngv. o gi u l »rcn c
eki^ap{0

ô P q nqo c. o^at o quv j qppcp wflwm o gi c | v j qi {
vg o gn{kngv f qdvcf nkA

ô Dk qp{ pgo wfqo²p. x^arcu| qnvpgnkcl ¾f¾ 0

ô Fg²p wfqo. j qi { o gn{kngv j c l q w co²p nk<
o gtv²p o kpf gi { knpgm c hctn¹v o gi eucxctvco. o knqt c
ngl go dgp xqn< c |²tv co gn{k m ugt^vupgm hgn xcp mwpnqtqf xc
c hctnē. c | v²p f qdvc o nk c | c | gp{²o 0

ô L»n xcp. hgrn c | ¾f¾. co gn{k n p g m v g j^av hgn xcp
mwpnqtqf xc c hctnē. c | c v²f< pgo d^apgo. nqo c. rgi { gp
Ä { 0

O knqt c | v³p c j q r x k i p^an n¹vgr? cnet¹a m u | cn¹cpk
c p{^alc v c eki^ap{ eucmgm| fl<

ô G | ku mwpnqtqf qw hctnÄ c | ku mwpnqtqf qw hctnÄ0
—i { cpp{ k c. j qi { c | ¾f¾ c | qp xgw²u | tg o ci^av j qi {
d q pgnk pgo o c t c f v gi {²d j^atc. o kpv c dvgi gu f ku p».
co gn{k n p g m r g x q n v g t g u l v g c h c t n e < o g t v j k u l w f l w m
j q i { c j q w u g t v u o k p f g i { k n p g m h g n x c p m w p n q t q f x c
c h c t n e 0

O kv xqnv vgpck c | ¾f¾ p g m j k u l o c i c o q p f v c < i N g i { g p
Ä { . eki^ap{ < xci { cnetv xci { pgo. dgrg ngrngw gi { g | plg
c | gnqul v³udc< eucnj qi { c | v³p gñj cv³tq | v c o ci^adcp. j qi {
uqj c v³d² o q | c x k i i n g u l . eki^app{ cn pgo o gi { f k u l p » v
nr p k < o g t v c | o²i c | ¾f¾ ¾ k u o g i e u c r l c 0

UCL X^{..} NI [KP | RO GUG

Vk k p m »

Xqnv gi { u | gt gi { u | gi²p{ go dgt u gppgm xqnv gi { hlc0
Kv c u | gi²p{ go dgt hlc nko gi { gp c | gtf u |²rdg u |^apvcpl0
J qi { nk²t. c i wd^al^av hgrnēu | vqvc gi { l¹tc u c | v³p c u |^ap/
v³uj q | hqi qw0

Eucmu |^apvqi cv. eucmu |^apvqi cvo qpf x^ap<

ô Eu^ar² Eu^am». j qlu | Dko d>0

Gi { u | gt c | qpdc p c | gtf hgr² vgnkp v. j^av o gi n¹vc gi {
l¹p ucl^avi wd^al^av hgrnēu | vxc0

ô J gl. Vklpm». ô o gtv ¶ { j ¶w^a m c ul gi² p { go dgt
 h²v. ô gn wf p^a f/g nrjpk c| v c hngvgh² v² i wd^a vA ô dgu² nv
 o ci^a j q| c o k Vklpm»pm ô cmqt xqp^a n^a o eucm fg² m
 i {gtgn#

U gl | gn qw jci { v c ul^a p^v uv. c h²ftg xgvwg o ci^a v
 u jcuqp eu² xc gmrv c wrcf qp i wd^a l^a v0 C| v² p pci {
 3/4 3/4 o gn wew xguf gn o ci cf j c| chgr² ul crcfv. fg² r ul go /
 n²4 v l²4 vt^a c nkt^a n| uc| vn² tf kv rg<

ô J qx^a ul crcf ul qn cp ugdgugp. o kpvcl gul gxgul gw0

ô J cj». pg ku n² tf g| g h² n² i gf. p² | | g o kn gp ul² r
 hngvgh² v² i wd^a vnr vco 0

ô P q. i c| go dgt. j c v g pgnf g| c o gvtu² i gf. j qi { j c
 j qmcr gi { ² v o gn gv j cv dcnepuqu kw o gi kw. g| gp o gi
 g| gp c| ² xgp xg| gv. gn pgo nrj qf. v² pv o gi cl^a pf² nq| rem
 gi { hllgn c| r g f ki ugn² ugo ngu|. o kpv vgo ci cf² < ô j c
 r g f ki gn wf qf nrjpk v² gn² v neur² p| v o² tgvgn nk c ul^a /
 o qf tc#

P q l»n xcp. g| cddco ctf v0 K² v gr² p c o^a ukm per. c j cv
 nevpc c o gi p g x| gw j gn gp qw xg| gv gk c| ² v0 J gl
 Vklpm»pcm ugo ngn gi {² d. xgw gi { v² Anrlc euk² v cp^a uwn
 gi { ² v u co gttg c nevq^a npcm gn ngnw l² p p k ul² r gp grtgu² v
 i gw0

Cttc l² p c j cv nevpc. xg| gkm c| ² v. j^a v r² v^a m
 j qi { gi { gi² ul ugtgi eukdg ul crcf^a n ngtgu² v² ncuwn c|
² v0 J gl. c nevq^a npcm ugo ngn v² dd. c v² v h² j q| n² 4 3/4 v² m
 u w² pc c euk² n² n pgn0 C| xqn c nri dqr qi cdd. nk nri v² ddgv
 h² j cv qv0 Vklpm» r g f ki g| crw ul² r gp grj q| v c| ² v
 n² 4 gr² v u o knqt c nevq^a m xku² c² tng| vgm eucm j nv j gn² v
 v r² n^a m c| ² v pgn Vklpm» o^a t cmqt ko j qi { qv j qp pgo
 xqn0 K² v o^a upcr Vklpm» crlc h² 4 kg| gk c nkt^a n| ul² p g gr² c
 j ¶ gu v² c nkt^a n| r g f ki t² 4 v² p nko² t gwg c 34 neur² p| v. fg
 c f qn² euqo d» n^a vnc| vo qpf v c ul gi² p { go dgt pgn<

ô P q ul gi² p { go dgt. o gpl j c| c. o qpf f o gi c hcf pcm
 j qi { n² 4 3/4 v² vgo. j qi { j c j qmcr gi { | u^a ndcp c r cr qv
² u c| ² p n w^a ko cv gn pgo j q| c. n² v² vgo c hlg i qo d/
 l^a v. j c r g f ki c| v o gi eugr m| k 46 neur² p| r² ul gp c|
 lwcm c0

K² v c| gi { ul gk ul gi² p { go dgt pci { qp ul qo qt ² cp dcp/
 f v n² j c| chgr². o kpv cnk p m c| qtte x² t g h n| km j qi { o^a t
 c| h² pcm ¶ { ² km rg. Ai { ² km rg c hlg i qo dl^a v. fg o kpf /
 g| gntg c o k Vklpm» n p n c m eucm| rgwc ul cxc² u o qpf^a uc<

ô Uqj ug d² v w l q p² f g u c^a o w t c o. d² v w l q p c n².

grfi pci { c hglg. u nkuidd i qpf lc ku pci { qdd ngi { gp cpp^an
eucm o gplgp nk c Ucl» rctv^ate t^anūl pk u o kpf c f k i j c | c
pg l³l³p. o ¶ xci { 46 t^anūv pgo hqi qv0 J qi { o kpgm ngu
c | . c | v o quv pg nītf gl | g. Ai { ku o clf o gi wf lc. ²f gucp {^a o
r gf ki xcttlqp pgngo eugr x^aul qpd»n gi { i { cr l Ā ū^am hqto ^av
o gn { pgmc hgrn³4 gr g v¹ p rgi { gp c hgpng0

©i { ku ngw0 ô C | cr lwm nko gpv c Ucl» rctvte t^anūl pk
c | cp { lwm r gf ki k kd g ³4u | g^a nūv pci i {^a d Ā k gi { kf c wcp
| ū^a nūv o gn { pgm c n³4 gr² p xqiv c hgpng. c n¹ v x² i g r gf ki
Ā gu xqn0 K v guxg hgr² c | cr lwm ku j c | cl³4v u j q | qw xci {
46 t^anūv0 Vkrpm» c | v¹ p ² lpgm kf gl² p nkr » f | qw c j^a | d » n
dguwtcpv c nk^a n¹ wf xct^a dc0 C u | co^a t pci { ū^a i Ā mw^a m
gmqt u | cdf qp xqncm gtgu | wg < o kpf gi { km p { c n¹ p qw
xqiv c u | gi gu x0

Vkrpm» c | v¹ p gi { gpnkp v p² xt n u | » n¹ i cwc c mw^a nev
c | ū^a m u^a l^a v nkr genng u o kpf gi { knpgm gi { gi { fctcd
n> j Ā v j clkqw dg c | ū^a nlc0 C mw^a m c n> j Ā u w¹ p gi { gp/
n¹ pv dgu | cxf vcm c pci { | ū^a nlc0 Vkrpm» pcm ugo nym v¹ d.
c | ū^a m u^a l^a tc j w nūv xgvw. c | v¹ p l³4v gw gi { nūeukc u
n¹ j clqwc tg | kf gpek¹ d » r0

O^a t c mw^a m o gi xqncm fg j qn xcp o² i c r cr Ā D k
ngi { gm g qw hgm | km c r cr xpqu^a i { qp u lex^a dep cwf v0
C nk^a n¹ r gf ki o gi Ā gpv pgnk j qi { c | per ² u ² l u | cne nk
pg o gplgp c j^a | a d » n o gt v ¶ { o gi ¶ { xcp c f q n i 0

Kv Vkrpm» o k/ o kv pgo euk^a n. c | cdrcnūp ngtgu v Ā n
dgo^a u | qw c vgo r m o dc0 O knqt o^a t dgpp xqiv o kpf gi { km
t^a m j^a v¹ tc gi { gi { xlcu | ni { gt v { cv p { qo qw. u c | v¹ p u | cpcu² v
gtgu | vgw c vgo r m o dep < o ci c r gf ki qfc Ā v c | qti qpc
o gn¹ u nūgtxgu j cpi qp gm | f gwtelc qti qp^a r k0

C r cr ² rr c vgo r m o v u | qo u² f ū^a i^a dep rcnūv o gi /
j cmqc c | qti qpc u | » v. pgo wf v c f qn i qv o ktg x² ipk nk/
w i tqw c | ^a i { d » n nknkp v c | cdrcnūp. j^a v r¹ vlc. j qi { c |
gi² u | vgo r m o o gi xcp xk¹ i qu¹ xc0 C r cr pcmugo nym gi {² d.
k kd g o ci^a tc ³4n³4v c t g x g t g p^a l^a v. c j » pc c n¹ eucv c
c u | gpv n¹ p { xgv. nū² dg xgvw c vgo r m o mw^a v u o gi kpf wv
c vgo r m o hgr²0

O knqt qf c² tv. nkp { kqwc c | clv v dgo gi { gp telc. j^a v
r¹ vlc. j qi { c hrcnūp o kn { gp htc cpi { cqm l^a t n¹ ipcn0 C
r cr c | v i qpf qnc. j qi { kw c | ¶² ngv per lc. o gi p { ¶ ncm c
o gpp { ncr wk0

Vkrpm» r gf ki eucm gm^a nlc o ci^a v c | qti qpc o gmw
kn { gv² pn¹ r r gp <

ô Mk cnet c o gpp{qtul^a i dc l pk< nk cnet c o gpp{/qtul^a i dc l pkA#

ô | p cnetqm hgrgnc r cr 0

ô —i { j^a vdÀl dgrg c | u^a nqo dc0

C ul gi² p{ r cr dgrgdÀlv c Vklpm» | u^a n^a dc. nk c | v³ p j wtnqv xvgw telc u j À ve c r cr qv c h³/f³/p. o kpv mw{c f 000 v nk c | v³ p i qpf qj ewc o ci^a dcp. j qi { o k{ i³/4³/pi { 3/4 pppgmc o gpp{qtul^a i pcmcl Àlc0

Kv rgmgo vgtgo vgw. tgi i grtgnrgk c ul gi² p{ go dgt eucm dg^a nv c nk^a n{ j q|. dgekr grk c pci { | u^a nqv. o gn{pgm c | gi { km x² i² d n nkgtgul vgw c r cr qv. c o^a ukm x² i² d n r g f ki c j cv ul co^a tpci { u^a i À mw^a v0 C nk^a n{ t³/4³/p nko² t gwg Vklpm» ul^a o^a tc c 46 nvr² p | v0

ô P q ul gi² p{ go dgt. ul »nv c nk^a n{. o gpl j c | c ul² r eugpf gup. o qpf f o gi c hcf pcm j qi { n³/4³/p v gvo ul² r gp u j qi { j c o c² l w | cnc c hrgu² i go wl^a t »n rg pgo nrlc c nri / nrg xugdd lgi i { t³/v. cmqt o kpf gp ki cmqo² u nri { grgo p² mAn net »dc j À cvqo. j c r g f ki c | v gn wf lc eugppk hrg/ nk^a n{ u^a i qo rgu c l wcm c 0

Kv c ul gi² p{ go dgt pci { ul qo qtÀcp dcpf wtnqv j c | chgr². j qi { o^a t c | h^a v { j À |^a m Ài { j À |^a m c net »dc < f g c h c o kpf g | gntg eucmg | vx^a r w | qnc. ul »vu | »x^a p <

ô Uqug dÀwldqp cr^a o wto qn{cp pci { qp. dÀwldqp c n». j ku | grⁱ pci { c hlg0 Eucm n^a uucpcm k kd g c f qnqi w³ p. ten^a m o gi c vÀ gv nki { grg gf cr^a o wto h^a v j cuqi cuuq. nki { grg gf r g f ki cp{^a o cuu | qp{ vÀ gv i { À wuq. xk gv vgi { gp qf c. rpeu² v h || 3/p. o² i r g f ki o kpf c f f ki. o { gi² ul gp r² r² pgo x^a rkn0C v³/ddkcl v³ p c |² p f qn i qo 0

C | cr lwm { kdgp j q |^a n^a vqw c hcert³ u j q|. c | cp{ lwm r g f ki c | v³ p c v | ten^a u j q | u eucnj co ct o gi h | vg c rpeu² v u^a v f v c h² pcm nk c | 3/4 f 3/4 pi 3/4 u | t² v c p{ c n^a dc i c dcn{ k / vqc. o qpf x^a p < ì n³/4 gn wgo. n³/4 w³ pco. j qi { ugnk ug n^a uqpè ô dgrqr » | nqf qw c nk^a n{ j^a n » u | qd^a l^a dc u c |^a i { c n^a grdÀlv0

Kv hgm | km c nk^a n{ o gi c hrgu² i g u o kpf n g wgp gn ku c n f vcm ul² r eugpf gup0 Gmqt Vklpm» nkdÀlv c |^a i { c n » n u c nk^a n{ Àgr² j g | qf c³/p³/v g c h w rpeu² v0 U g | gn o kpv cnkpgmri lqdd tgp² p xcp c ul² p^a lc. xku | cdÀlv |^a i { c n^a 0

Kv c nk^a n{ o gi h t f w n hgm² dgp. dgrgf n c h w rpeu² dg. gttg h³/4 dtgf u vr qi cw | pk nrl f 0 V | . mw{c vgtgo vgw. tqul h^a v gw hgn² i g c v | tg0 P go ul »nv ugo o kv. j cpgo ul² r eugpf gup h³/4 mgnv c |^a i { d » n nkuqo r qn{ i qw c ul qd^a d » n

c m^hqj| dcpf w^hq^h. o clf x^hgv j^hÀ|qw c x^an^hÀd>n u o qupk
ng| fvg e icv^a1^a0

Vk^hpm> r g f k i | g| c r w q f c h m^h f v c n k^a n^h p² o g n^h. h g n/
n^h4^h4^h u c| v u^h i v c p g n k <

ô J c m^h f / g u |^h k g o u |² r u | g t g m g. v e r q i c u u f e u c m o g i
c | w l l c f e v x^a l l q p o g i x c p / g o² i c l g i { i { t f 0

ô O g i x c p. u^h i v c x k u | c c n k^a n^h p² 0

ô P q. j c o g i x c p. À | { c f f k f g. o g t v 3^h4^h3^h4^h p i 3^h4^h u g o d g t
a o c | c V k^h p m>. u q m^a m j c w m^a d e p u À | { n g j À | c c | w l l c f t > n
j q i {² u | t g u g o x g u | g f 0

C n k^a n^h p² u |² r g p n g j À | v c | w l^a t > n n g i n g f x g u g d d l g i { /
i { t l² v u q f c c f v c c h² t l² p g m x c i { k u c o k V k^h p m> p m
p c n 0

Vk^hpm> c |^v p c | w l^a t e j À | v c c n k^a n^h p² l g i { i { t l² v. h g n/
n g n v c |^a i { d > n m k o g p v c u | q d^a d > n 0

ô J q x^a o² i { . u |^h k g o u |² r u | g t g m g A n^h t f² c n k^a n^h p² 0

ô M k o g i { g m u |^h k g o u |^h k g. c | w f x c t t c. n^h4^h A p² | g o c
j^a |^v 1^a v j q i { x^a l l q p c | c |^a v u | q w V k^h p m> p g o > n^h m a f k n^h g
k v x c r j q n A

ô L > n x c p. u |^h k g o u |² r u | g t g m g. e u c n j q i { c |^v p u q n^h
p g r i { #

U g | | g n c n k^a n^h p² c o^a u k m q r f c n^h t e h g n^h f v u g r c n w f v.
V k^h p m> r g f k i u |² r g p q f^a d d^a m q w u c | v u g o o q p f v c < d g /
h g n g i | g w 0

O^a u p c r t g i i g n c u | g i² p { g o d g t o c i^a j q | x g w g c l g i { /
i { t v u d g^a n^h v c n k^a n^h j q | . n k o² i o q u v k u t g u v n g c f q r i q v
u u |³4^h p { n^h r r g p j c t c i w f q w 0

ô C f l q p K v g p l > p c r q v h^h n² i g f p g n #

F g d g | g i c n k^a n^h p g o o q p f v t^a c h q i c f l K v g p v.
j c p g o c |³4^h g i g o d g t v o g i h q i c w c. x c u t c x g t g w g u c
n g i o² n^h g d d v^h o n^h e h e p g n^h t g x g v g w g. ô V k^h p m> v r g f k i d t /
|^h u^a n d c n^h4^h v g w g u n^h v j c l f A p c m n k c f v c c r c t c p e u q n v q v. j q i {
g | v c d t |^h u^a n q v t³4^h v^h p x g u u² m c U c l > d c 0

C j c l f A m u g o x q n c m t g u v m c d t |^h u^a n q v u c t q i n^a t e
v w² m u x k w² m c U c l > h g n^h < ô A n^h4^h d g p c | q p d e p g i { n q t e u o c
o g n g w o g p v g m g n j q n o k p f k i o g i^a n q w e m g i { r q j^a t d q t t c 0
O q u v k u c | q p n^h r r g p e u g r n g f v g n c n i { g r o 3^h4^h m u |² r g p d g /
d c m c i v m c n q t e u o^a d c. V k^h p m> v r g f k i c d t |^h u^a n d c p q w
j c i {^v m c n q t e u o c c l > g n w 0

O q u v V k^h p m>. j q i { o c i^a t e o c t c f v c r t c m k n^h j q |
h q i q w k n^h g² p n^h r r g p < w e c j q u u | c v q t n e u l c n e f v^h d > n g n^h
n g | f g w n k d^a p k <

ô lcl. pgo cnetqm ngppk Dwf^ap d[¶]»< lcl. pgo cnetqm ngppkDwf^ap d[¶]»#

Gi { i w[¶]^au²r cttc vgtgng c p[{]a¹v. o gi j cmlc. j qi { o kv nkcd^an qw gi { go dgt. qfco gi {gp j q|^a. nkqf q| c c | u^m u[¶]^al^av u c| v n[¶]tfkVkrpm»n<

ô J^avcv{chk o²tvpgo cnetul Dwf^ap d[¶]» ngppkA

ô Eucm c|²tv cv^ao hlc. o gtv ug ¶tpk ug q[¶]xcupk pgo w[¶]qn0

ô J c eucm c| c dcl. c| qp n[¶]pp{gp ugi ¶j gv[¶]pm j ku²p ¶^auwf » u^ao cf » xci { qn0

ô Pq. eucm ¶ kdg dAll dgrg gddg c | u^mnlc. o clf²p dg/ n[¶]4³o c u^al^av u c| v[¶]p²p v rgo ngj gw| d[¶]» Dwf^ap0

Kv c u^ao cf » i w[¶]^au dgrgdAlv c d t| u^mnlc. Vkrpm» r g[¶]ki dgn[¶]4x²p c | u^mu^al^av u²r gp qf^add vgtgng c i w[¶]^av0

C n[¶]v j clf À c| v[¶]p nk³4w c n[¶]teuo^ad » n h³4xgw²m c uctqi n^av u o kn[¶]t c Ucl » j q|²tv[¶]m c| gi { km o gi h[¶]q c c | u^m cn » x²i²v. c o^aukmc hgru vu u²r gp dgr[¶]f ¶[¶]qw[¶]mc x[¶] dg

Kv ngmgo vgtgo vgw. o k v[¶]4²pkm c f q[¶]qi d » n o k pgo . Vkrpm»c²r u| go n[¶]4 v¹3[¶]p c nk^an[¶]. nkcl vn[¶]tfkv rg<

ô J^av v[¶] 3[¶]4f³pi³4u Vkrpm». j qn xgu[¶]gf kw o ci cf u j qppep j clvqf c| vc i w[¶]^avA

ô C Ucl » hpgn[¶]t r0

ô Xcp/g o²i qw[¶]4dd kuA

ô Fg xcp^ao . eucm[¶]ngmgpg j clvcpk0

ô Pgo o wcp^af o gi . j qi { o gn[¶]km hgr[¶]p xgvwgm dg c Ucl » dcA

ô Fgj qi { pgo . fgj qi { pgo . j cpgo hctn[¶] xcp c f q[¶]qi pcm o gtv pgo gr[¶]i^ao eucm j ¶dgrg/j » dgrg Dcn[¶]| u. n[¶]xcv cf Kvgp/o » f¹a^{tc} dgrgwi tepk c x[¶] dg. o gtv uqj cug o gppg rg c| go dgt c hgp²mg. r g[¶]ki qwngi gr[¶]u| pgm^ao c u| gdd p²n u| gdd i w[¶]^am j cpgo n[¶]mpewn 3[¶]4xgphqpvqu n[¶]4gv ngm c| go dgt p{cn[¶]dc n[¶]4pk0

C nk^an[¶] gttg ku t^aa n[¶]w. eucn[¶]qi { qn[¶] u²r i w[¶]^alc ngj gugp. o kv Vkrpm»². g| r g[¶]ki o kn[¶]t c p{cn[¶]dc xqrv n[¶]4xg c| 3[¶]4xgphqpvqu n[¶]mp^e. c ngi o²n[¶]gdd xk[¶]gv lgrng nk j qi { qwwi qt^{l2}mdg0

Dg ku wi tqw c nk^an[¶]. fg d[¶] c| uqj ug n[¶]wc v[¶]4dd² Kvgp xgt h[¶]p{gu pcr^{l^a}v j cpgo j cn[¶]vgmgwdgn rg0

Oquv o^at c| xqrv c n[¶]tf²u. j qi { nk^vx^arcu| cpcm nk^an[¶]/ pcmA Mkv gi {gdgv. o kv Vkrpm»v# j ku| c hgrg nk^an[¶]u[¶]i Ai {ku c| 3[¶]4² xqrv hgr[¶]v r g[¶]ki grp{gtv c|^ancn j qi { c x[¶] dgp o gi dqrf qi wv nk^an[¶] 3[¶]4 xgi {²vgrxgwg hgru²i A[¶]0

C|^vp n^mkv n^mcn⁰ C n^mqf c^mo d^cp ²p ku qw x^mq^mco .
 fg jqi { n^mi {gp o kv c h^mi w^mcm c^mi¹ t^mcmk t^atemco c u^lgn^mt^g
 6 ³/₄n³/₄. d^gh^mi w^o 8 | u^mm u^lgo g^pu^lgf gw v^ku^lvc d^À^av u gn^l
 x^kw^o c o c^mo d^c0 J qi { k^fg²tv^o. h^gn³/₄p³/₄w^o c i c^tc^tc
 c 6 ³/₄n³/₄ u g^mq^t c|v i q^pf q^mco . jqi { m^wn^qt^ke^av tⁿm
 j^av r g^fkⁱ d^cd^q0 F g jqi { o c^f^at^j Àu ku n^mi {gp c n^mqf c^mo d^cp.
 o ¶ c n^ku^lv^o n^gl^atv. n^ku^lc^rf w^o c| g^tf t^g u^gt^gi²n^lh^keⁿv
 u^lg^fp^k0 V c^rn^o ku gi { q^fÀv d^gn^gf wⁱw^o c n^gl^og^ogv. fg c|
 p^go h^tv d^gng. d^gn^gf wⁱw^o c|^vp c h^gl^og^ogv. c| d^gn^gh^tv. fg
 d^gpp ku t^gn^gf⁰ O quv o k²x n^mi {gm n^er w^o c n^gm³v. qw
 jci {w^o c h^gl^og^ogv. jci c|cu^lc^rf w^o d^cn³²tv. jqi { o c^lf
 n^kx^ai q^o c| q^fÀ⁰ Gⁿq^lw^o c d^cn³v. n^kx^ai w^o c| q^fÀv.
 n^kx^gw^o c h^gl^og^o u c jgn²tg v^gw^o 0 J c p^go jku km n^ki {gn^l
 o g^vgm j^av n³g^mg^f l^gp^gn⁰ C|^vp gn^lgf v^o c h^keⁿu^gt^gi²n^lg^mgv.
 o c^f|cⁱc^te n³/₄w^o u c n^gd^gn^go d^g t^em^o < fg w^o h^k. c
 u^gt^gi²n^lh^ke^m gn^l^am^em x^gg^o. gi {u^lgt gi { pci { h^qn^l»x¶
 h^gn^gw t^gr À³/₄m o gn^lp^gm c r c^tv^a p ²rr cu^lq^p{q^m o qu^xm
 n^km o k^f p o gi n^lw^em g^pi go . g^mk³n^qw³m o ci wⁿe^v< ì d².
 fg pci { o c^f^at[#] | p o gi Ài { ²tv^gw^o < ì 23f l^o o gi c
 i c^v^ao Ò O gi q^rf w^o c i c^v^ao c^v. c u^gt^gi²n^lh^ke^m gn^l^am^em
²p o gi d^gn^ge^wr c^pw^o c F w^p^a d^c0 Gi { pci { g^dc^fv c d^wp^m»u
 d^qv x^qv c n^gl^og^od^gp. o g^mgn c F w^p^a d^cp n^gx u^qm j c^re^v
 o k^pf n^ki c^lv^qw^o gi { r c^tv^q p ^am» o g^lv^gn^p e^ki^ap {i {g^to g^m
 k^pi²d^g0 G^lc^rw o gi tⁿg^w²m c n^ku^lv^ogv. jci c^xk^wo u o gi /
 o q^pf w^o c h^gn^g²i go p^gm jqi { u^À^u³/₄p g^dd n c n^k^an^l n^ku^lxd n
 h^gi²t n^gp {g^tgv. o gi qⁿl h^gn^gv^g e^ug^to qⁿ^au n^gp {g^tgv u^À³/₄v.
 jqi { c m^w{c u^go g^wg x^qp^c o gi 0 M^ft^qo n^qf q^o. u^lk^fq^o c
 n^gm³v⁰ | r g^mq^t v^qr r c^p d^g c u^lq^d^a d^c c x²p E u^ql qⁱ». cⁿk
 f^ke^u²tpk n^gl^fk jqi { c| ²p h^gn^g²i go k^lg^p l». qⁿ{c^p l» n^gp {²t/
 u^Àv 0 | p g^tt^g f^Àj d^g l³/₄w^o u c n^gl^og^od^gp n^gx h^qt^t» n^gp {g^tgv
 Ài { x^ai w^o c E u^ql qⁱ» h^gl²j g^l. jqi { o qu^vku n^qr cu^l v n^g0

U | MGN| P | RFCNQM

U|qo u|²f rgi²p{ I {wtnc

Cdrcnalc n³p{³4m²mi {³pi g t^ae o gp{geung
J^a vnm²pp u²v³ nxcrc dqt d²n{ rgi²p{ I {wtnc=
Lgt d² j g| co |lgt d² dqt d²n{ rgi²p{ I {wtnc.
Lgt d² j g| co . lgt d² u| qo u|²f rgi²p{ I {wtnc#

U³/₄o ku l» xci {qp. dqtqo ku l» xci {qp.
P gm²/₄ kpi {³p cf qm o^a upcmr²p|² tvcf qm
U³/₄pnkulpeugp kvj qp. eucm²p xci {qmkvj qp.
U³/₄pnkulpeugp kvj qp. eucm²p xci {qmkvj qp0

Wtco c x^atqudc r ktqu eukf o c xqppk
Cr^ao c| gtf dg uqo hc xguu| vx^ai pk
Cp{^ao c o cmqo dc hgl²t rku| v³/₄ngpk
Cp{^ao c o cmqo dc hgl²t rku| v³/₄ngpk0

Cffki eucm²i cv³ dqt d²n{ rgi²p{ I {wtm²v.
Co ki c| gtgu| dg ngo kvd²euci³0ô
Gee³/₄ j c| co ³/₄pg c| ²f³/₄ wtc.
Gee³/₄ j c| co ³/₄pg c| ²f³/₄ wtc00

Hrgu²i ³/₄ . n²peu³/₄ . gtguu| Ld² kpi ³/₄ ³/₄z
C x^atqudc l^a tvco r ktqu eukf o^a vj q| wco =
ku d²gtgu| v² c| ²f gu wt^av.
C lqdd j »p{c cn»nmkdqeu^a v³ I {wtm²v0

,

Guv g i w| ucn{ cudc²p gee³/₄ go ³/₄pvgo .
O »p^at rgi²pn²xgnl^af| qf q| pknng| vgo =

H²p{³/₄j clpcr²eukmci d^at h kpg x²|lcf pc.
J qi { c u| gtgr²/₄ pgmx²i g pg u| cmef pc0

J c| c ngn² o ³/₄ppko clf c i w| ucn{ cud»n
Cp{^ao ku c| qpdc h kngr² c| ^ai {d»n

I {³/₄pi g p {[¶]a i xguu | vhtkuugp gr² x³/₄wg.
McteuÅf gtgnco qp j clvqi cypkng | vg0

J c c o »p^a t rgi² p { vku | v c i {²o^a pvx»pc.
O²i ug o ³/₄pp² m³/₄ddgvi w | ucn { cudc j g | | c0

C xk[¶] i qveucmpgxgwo .
O[¶] gpp { kg h³/₄p j gwgo =
F g j qi { r³/₄ppg o clvg | w^a p.
J c gee³/₄ o gi j^a | cuqf p^a o .
C | vo quvnpgo vcn[¶] nj cyp^a o 0

J c gee³/₄ o gi j^a | cuqf v^a n
K[¶] g u vxc pg m[¶] tle^a rl
P go u | gtgkhrgru² i ³/₄ <
J² dg/j »dc n^a vpk² i ³/₄ 0

P g j c f f qvj qp eucmo ci^a tc.
O gwtquu | vnl^a t wqn^a tc.
C n[¶] t² tvgo gi klgu | v
Uc | gr[¶] i tquu | r³/₄ppg pgn⁰

C | c Dci f kcpp { kvku | km
J qi { j c | c ku o^a uqmxku | km
P kpeu o kvx³/₄ { ³/₄ p c j^a v^a tc.
C f f ki l^a tvc nqteuqo^a tc0
P kpeu h³/₄ f grg c j^a |^a pcm
M³/₄ | ³/₄ pp { g c pci { vqtn[¶] pcn⁰

Gi { ng^a pp { cno gi ngr^a ncm
F g pgo wf qo . o kveuk^a rcm
Gx³/₄ { go xcl tgrk^a rlcn⁰

V³4r g O kj »mo gi dqmpf wx.
 C| gul kv no gi ul cdcf wx.
 O ci^a vl»nc h³4f j ³/₄ xgtvg.
 J qi { O ctkun¹ vgnpgo p{gtvg0
 † tgvvgp x»vo²i c| gul g.
 Vgppcr c| ku o kpf g¹kgul g0

C o kpcr j qi { j c| co gpvg0 . qwxcr¹ n¹ vqo .
 Gi { p²j^a p{ n» o gi p{gti g¹kg. gi { ngw j^a tqo =
 M¹tf go <²f gu h¹ngu²i go #ô O kdcl. cpi {cmqo A
 O kvngtgupgmkvg n¹xcm o gi pgo hqi j cvqo Aô
 P q n¹ uuc c| go dgt c| qm¹qpf k: nk¹ vkw¹n¹xcmvA
 Hgl u vgi gpgmc| qm cp{^ao m¹ñf vg c| qn¹vôô
 Hgl u vgi gpgn#hgmep³ tq| xc#
 Qj²i #ul gi²p{ o gi eucrcvwh²tl xci {qm
 O^a uqmk. o kpv²p#

Co k¹vc j^a | dc dg¹kn¹vgm qwxcr¹ n¹ vqo .
 Gi { pgj^a p{ uctnepv{Av/euk o c. gi { ngw j^a tqo =
 M¹tf go <²f gu h¹ngu²i go #ô O kdcl. cpi {cmqo Aô
 O kvngtgupgmkvg euk o^a m o gi pgo hqi j cvqo Aô
 P q n¹ uuc c| go dgt c| qm¹qpf k: nk¹ vkw¹euk o^a nevA
 Vglgu h| gn¹mc| qm c| cp{^ao m¹ñf vg c| qn¹vôô
 Vglgu h| cncn#hguctnep{v\ xc#ô
 Qj²i #ul gi²p{ o gi eucrcvwh²tl xci {qm
 O^a uqmk. o kpv²p#

Co k¹vc hqi cutc v¹kn¹vgm qwxcr¹ n¹ vqo .
 Gi { p²j^a p{ netf h¹rcncul xc gi { ngw j^a tqo =
 M¹tf go <²f gu h¹ngu²i go #ô o kdcl. cpi {cmqo Aô
 O kvngtgupgmkvg netf qm o gi pgo hqi j cvqo Aô
 P q n¹ uuc c| go dgt c| qm¹qpf k: nk¹ vkw¹netf qnevA
 Rgeugp{gu¹ñ mc| qm c| cp{^ao m¹ñf vg c| qn¹vôô
 Rgeugp{gu¹ñ n#r qtwr² xci#
 Qj²i #ul gi²p{ o gi eucrcvwh²tl xci {qm
 O^a uqmk. o kpv²p0

Co k¹vc|^a i {dc v¹kn¹vgm qwxcr¹ n¹ vqo .
 Gi { pgj^a p{ j wu^a t n¹vqpc. ²i { ngw j^a tqo =
 Gi { pgj^a p{ j wu^a t n¹vqpc. gi { ngw j^a tqo =

M²tf go <²f gu hrgu²i go #ô O kdcl. cpi {c₁qo Aô
 O kvngtgupgmg nēvp^a m o gi pgo hqi j cvqo Aô
 P q n^a uuc c| go dgt c| qmqpf kx nkr^a vkwnevp^a vA
 U qri^a n» n^a p{qmc| qm c| cp{^a o m²af vg c| qn^a x0 ô
 U qri^a n» n^a p{qm#r^{3/4} t^{3/4}vdclwuu| cr#
 Qj²i #u| gi²p{ o gi eucnevwlf²tl xci {qm
 O^a uqmk. o l_pv²p0

O kpf gl gngv^a vxc. gr²ner^a o den^a o .
 Hglgo hrgwo gi hqi cvxc. gi { ngw j^a tqo 0
 M²tf² c|² p hrgu²i go <O kdcl. cpi {c₁qo A
 O kvgu| pggmg hqi cv^a uqm o gi pgo hqi j cvqo Aô
 P q n^a uuc c| go dgt c| qmqpf kx nkr^a vkw hqi cv^a uvA
 Ek>i cv^a uqmg| gm c u| gtgrgo u| Ārk gl gngv0ô
 Qj²i #U| gi²p{ t^a u| gf gwp xci {qm
 O^a uqmk. o l_pv²p0

Vf PEU ~ M

ô O qpf o gi pgrgo h²ti g Hgtgpe
 Gi {gttg j^a p{ ng^a p{vu| gtgu| A
 ô J qi { o gi o qpf lco . pgo vgi gvgo .
 P go u| »rj cvqm dgtgngf vgo 0

f pi {qo cuu| qp{ u|²r cuu| qp{.
 Vgff c u| gi tg. j cff cuu| qp0

Ug pgo nkeuk ug pgo pci {.
 | rr gp j q| |^a o xc» xci {=
 K {gpgu xci { o l_pvc p^a f.
 J q| |^a o u| cdqwxqm^a r^a f0

J quu| Āj clcf hetqf² tk
 Uc|² p u| go go c| vn^a f² tk0

Cnkj wu^a tvpgo u| gtgv.
 O gpp{qtu^a i dc pgo o gj gv.
 Qf c gu eucmc o gi {²p d².
 Cnkvc j wu^a t gtgu| vd²0

V^a peqnc r cr . l²i guu rgu| .
 Uc u| ²r dÀ^a o o kpf qf cxgu| 0

Ge^{3/4}vqto c hqñj ci { o c.
 G| c r^a p{ l>h²to c0

J c Ài { wf p^a nu| k³ rpk
 O kpf c hctqf tle^a rpk
 V^{3/4}ddgv²tp²ncp{^a f p^a n
 Cpp^a nc x²p nu|^a p^a r0

O gpp{kr^a p{ . o kpf u| gtgv o .
 Qn{cp c| ²p vqto ²u| gv^{3/4}0

P { Àv» r cf qp c o ²u|^a tqv.
 O gi dÀwvvc nqteuqo^a tqv.
 J qi { p^a r^e dqtvpgo ku| kmo quv.
 Rgf ki eucr qp c j cwxcpqu0

! hcmxci { wpmu pgo vqj gvLm
 J qi { c r^a p{ vpg u| gtguuAn0

M VU | MGN| P| RO GUG

C| ctc{u| t d^at^ap{

Gi {u| gt xqrv gi { u| gi²p{ go dgt. u cppcm gi { h^c0 J qi { c h^kÀ cmmqt^atc p w. gm^Àf v^g c| crlc u| qn^aipk⁰ O gpv. o gpv c h^kÀ ngtgug c jgn{kv o ci^apcm u cnefv gi { go dgtj gl. cnk v o gi hqi cfve c lwj qm o gm⁰ O^aupcr c ic|f^alc pgnk c n²| kdg cfqw gi { hwtw^av u gm^Àf v^g c lwj qmⁿen j qi { o gi / r^auuc. l» ngu|/g lwj r^au| vqtpcn⁰ C h^kÀ gi²u| per j quu| cv ugo jgxgtgf gw ng. o kpf o^au n^oj c rcmw^atqm³ jcpgo c lwj qnev²t[¶]pi gw. hwtw^akv. u o gpvw³ pln⁰

Xqrv c lwj qm n³/4³v gi { ctc{u| t d^at^ap{nc. u c| j c hwtw^anv. o kpf²i v³peqn= c|v Æi { gu o gi u| gtgw. j qi { hngwg o ci^adc. pgo n²t c ic|f^al^awⁿ o^au d²tv. eucm c|v c d^at^ap{v⁰

Gu²tg c lwj qnev j c| c| clvqc= c ic|fc x^atc c nerwde u o knqt r^awc. j qi { c lwj qm o kpf o gi xcfpcm u lⁿx cxfpcm rⁿxc. Æi { o gi xqrv gr²i Æⁿg. j qi { c h^kÀxcn u| gi 3/4²u²itg kpf vn⁰ C h^kÀ c| ctc{u| t d^at^ap{v n²tv. c ic|fc gu c d^a/t^ap{v gt ugp u| gtgw. fg o²i gu xcrc k pci { pgj gl gp eucm qf c[¶]2²tv. o gtvⁿwc. j qi { c h^kÀl» eugr²f⁰

Gn³/4ⁿ c| gu| v^gpf = c u| qn^ac x²i ki lⁿx xlugng o ci^av u c d^at^ap{ 3/4² ngv⁰ J c| clpf vn² x²rg= u co kpv o gppg. gi { hⁿwdc grgu²rgf km dgu^am gi { ic|f^aj q|. cnkpgm gi { ng^ap{c xqn⁰ G| c ng^ap{ Æi { o gi u| gtgw c| ctc{u| t d^at^ap{nv. j qi { hngwg o ci^adcp. j qi { gm^rlc⁰ | ll²n n³/4^Àn o gi gu cnetw vppk= fg o knqt c d^at^ap{j q| p{»nv. j q| |^atci cfv c u| tkj gl⁰ Tgi i gn hgm³/4ⁿ c ngi²p{. j qi { gnkpf w^lqp. u j^av c ng^ap{ c d^at^ap{nv j q| xcp tci cfxc# pgo w^fwc qpp²v r^gxgppk u c d^at^ap{v ugo j ci { j cw gⁿ< ¶| { nngw j^av gn/ kpf w^pk uc d^at^ap{ c u| tkp xkwg c ng^ap{v⁰

| rⁱ 2²tv c u^an²t^awⁿ c j cto cf km u| qo u|²f ki. xgu| k c hw/ tw^av. hwtw^ako ng|f. u ctte c d^at^ap{ gu v³pepcm gtgf= v³peqn c d^at^ap{. d^at^ap{ u| tkp c ng^ap{0 Gi { cuu| qp{ c nerw uqtⁿp^an n^gp{gtgv xgvw d² c ngo gpe²dg= nk²| u r^auuc. j qi { c ng^ap{ v³peqn c d^at^ap{ u| tkp= nk²w c u^Àv r^r^awcn u o gi tkcu| c c ng^ap{< o gpl j c|c. pg Æi { gv^gngf l kw m^Àpp# Fg c ng^ap{ eucm v³peqn⁰ J q| | c Æv c r^r^awcn< j^av v^g o²i pgo cnetu| u| »v hqi cf pl^k Fg wⁱ { cp o gi gugw pgnk gu. o gtv

³ lwj^a u| qn⁰

c r^av c r^ap{ hct^atc tci cf v. u c r^av x²i ktg c u[~]Av cuu| qp{0
 v gu c d^at^ap{ grkx² u gr^ogp²pgm c vgo r^oqo ki 0 Qw gu c
 r^oi²p{ hwtw^av h^apk ngl f k v^apeqn c d^at^ap{. d^at^ap{ u| t^op
 c r^ap{. r^ap{ hct^ap c r^av. r^av x²i k^o c u[~]Av cuu| qp{0

C rcr tgi i g^ogtg cmqt l^{3/4}v c vgo r^oqo d^on= u| kf pk ngl f k
 ngv. j qi { o gplgpgm j c| c. pg ||²m c| gu| knv= fg c u| »
 pgo j cu| p^an0 Hqi lc c r^are^av u l^ov^a Av c u[~]Av cuu| qp{ hct^atc=
 fg j qi { gr^ao w^o. o knqt r^auuc. j qi { c r^arec c| cuu| qp{
 hct^aj q| tci cf v u c r^arec x²i k| g| # Gxxgn c u|²r nqo²f^oxcn
 o gpv. o gpvc h^acf²i. j qi { gu²tg c nk^an| kx^atqudc²tn^ol gw0
 Qw c x^atqu x²i k^o dgu^amqw gi { ^{3/4}gi cuu| qp{ j q|. o gi n^ot/
 fg| v^ow^ok o k^o Alu^ai xcp c x^atqudcpA C| ^{3/4}gi cuu| qp{ pci {
 u| qo qt^ap grdgu²rk j qi { c nk^an| r^ap{ c gt ugp d^ovgi. ugo o k
 wt^ou^ai³ ugo j cu| p^an pgnk= c| wt^ouqm c| v o qpf v^am j qi { j c
 cpp{ k c r^ogvpg o gppk j qi { gi { gv n^oeci lq. o kpf^o tv
 o gi lexwpc. fg ugnk ugo w^of c o²i o gi n^oeci v^opk= c
 nk^an| grr gi o c j kfgwg nk j qi { cnk c r^ap{^av o gi n^oeci /
 wuuc. eppcm cf p^a c r^ap{^av. u c nk^an| t^oi^av gu x²rg o gi /
 qu| v^op^a0

C d^at^ap{qu r^oi²p{ crk x^atc c tgi i gn j qi { u| gtgpe²v
 rt^od^anq0 Tgi i gn dglgppk o ci^av. j qi { c nk^an| r^ap{ v
 o gi cn^otlc n^oeci v^opk0 G| v c nk^an| l^o p²xgp xgwg. u c
 r^ap{^av nk^an| qwc c vtp^aedc0 C r^oi²p{ c hwtw^av o gi /
 hwxlpuc. v^apeqpk ngl f c d^at^ap{. d^at^ap{ u| t^op c r^ap{.
 r^ap{ hct^ap c r^av. r^av x²i k^o c u[~]Av cuu| qp{. cuu| qp{
 hct^ap c r^arec. r^arec x²i k^o c rcr0 Gttg pci { j c j q^oxcn gn
 n^oeci v o ci^av c nk^an| r^ap{= u c ppcm o²i c d^at^ap{ n^o gu
 Ai { o gi ^{3/4}Av j qi { o ci^at^on o kpf gpv r^ot^a| qw. u gi { gugi { gf An
 ngl fgw v^apeqpk v^apeqn m^o v^o o ci^atc c r^ap{ gu. c u[~]Av /
 cuu| qp{ gu. o²i c rcr gu0

C nk^an| gu| ggungwvg r^ap{^av c lwj r^au| qtten= c
 rcr d^on w^oxctk rcrqv eul^oa^o. c| cuu| qp{ d^on w^oxctk u[~]Av p²v
 u c r^ap{ d^on r^ap{ c o gn^o hctcl^o Vctvqw c r^onqf cmqo gi { km
 j²h v n o^aukm ngl f ki. c| gi²u| qtul^ai pcm l^ongf xg xqn=
 u c j gi gf u^{3/4}ngm c j^o Alkm gn pgo u| cn^of v xqpc v^ap o²i o c
 gu o kpf v^apeqpk p^ocn0

³ qtxqu^ai 0

⁴ nkucuu| qp{ v0

Ctguwo ceune

Gi { ngi²p{ o gi xgw hng²i Ān gi { fqni vcrp i c| fci
ng^ap{v= o²i r g f ki c| v hqi cf w. j qi { uqj c ugo xgtko gi 0

C| ²hcuu| qp{ uqj cugo fqni q| qw j cpgo eum l^atv
j^a| t>n^j^a| tc | wxcvqpk³ u gi {²d j kx^ap{ fqni qv n³k^gvpk0
Pgo gu xgtv^g o gi c| wtc gi { u| gt gu= j cpgo gi { tgi i gn
o knqt fqni tc o gpv. c o ceun¹j q| ¶ { u| »nqw< C| v r ctc p/
euqr^o pgn^gf v^g o ceune. j qi { o ¶ ²p qf c ngu gm v^g o kpf gpv
fqni q| |. co kv n^gm c j^a| cv u| ²r gp nk^cnet ¶ uf. f²rtg ²v^gn
n²u ¶ u. u o gi gi { qtu» hqpcrv gu hqpl. o gtv j c pgo. o knqt
j c| c l³k³m Ai { o gi xgt^gm j qi { o gi go ngi gv^gf #

C o ceune c v²u| glgp⁴ u| wp{ »n¹ixc x²i ki j cmi cwc c
dgu²f gv0 Fg c| cuu| qp{ c| v i qpf qnc o ci^adcp. j qi { gl c|
²p go dgtgo o gi dqmpf wn# u c| v o qpf c< Mlgf. wtc o
k²tv r qtqpeuqn qn¹cp²qv c ppcmc o ceun¹pcm j ku| c| c| qnj q
pgo wf A ô Vwf. pgo wf. pgn^go o kpf gi { . hng²i # c| v
o qpf c| go dgt. ô pgn^go pkpeu o^au. nk^gm r ctcpeuqrlcⁿ=
fg j c o kpf c| v o gi pgo v^gu| k o gi n¹uf. Ai { o gi xgtgo.
j qi { uq²n²tv hgn pgo n²pg xgppl #

Cxxcn gro gpv fqni^atc0 C| cuu| qp{ r g f ki dk vcpk ngl f v^g
c o ceun¹v< Fqni q| |. o ceune o gtv o c o gi xgt wtc # Fg
c o ceune pgo fqni q| qw0 Gro gpv c| cuu| qp{ v³ld j^a| j q| . u
o knqt j c| co gpv. c o ceune cm²qt gu u| wp{ »n¹ix. u c v |
gu nk^cxf v0 Guo²v o qpf v< U ¶ uf hgn c v²l gv. u fqni q| |.
o ceune. o gtv o c o gi xgt f³40 Fg c o ceune pgo fqni q| qw0

J c| c| c i c| f c. u| ²llgp² | . u j^av o kpf gp tquu| vn xcp0
Gr²t^apvc c o ceun¹v. hgm²4k c hng²i g j^av²tc. u c f f ki xgtk
o ¶ c hng²i g ko^af nq| pk ngl f<Pg Āug v³ldgv c| v c o ceun¹v.
o gtv c| pgo j k^au. c| pgo wf c| qnj q| c fqni qnj q| # ô
Hqi cf qf /² j^av. j qi { j gn¹gv^g o kpf gpv x²i j gl xkuu| A n²tf k
c| wtc0 X²i j gl xkuu| gm o²i v³ldgv gu. o kpf co gpp{ kv nlgf
pgnkr qtqpeuqn. eum^gp^g Āug v³ldgv u| gi²p{ # hng²k c| cuu| qp{ 0

C| ²hcuu| qp{ n^c j c| chwq w c| cp{ l^a j q| . gr cpcu| qnc
c fqni qv. u c| v o qpf v< Hgn¹qi cf qo. j qi { c o ceune j gn¹gv
o kpf gp fqni qv gr¹ki c| ¶ qm eum pg xgtlg c j^awc o qp qn¹cp
j c¹n¹tc0 J gl | c u| »nqw c| crlc gu< J c hgn¹qi cf vcf. vgf f gu
o gi = o gtv j c pgo. c o ceune j qpcr gu o gi xgt f kn# U gxxgn
j c| cm²rf v^g c| w^a j q| 0

³ r ngv{ n¹rp0

⁴ v | j gn¹gp0

O^aupcr tgi i gn gu o gi rqtqpeuqnc c i c| f c c o ceun¹pcm
o kv vgi {gp= fg ugo o kv ugo vgw o gi o quv gu0 C|²tv j^av
guo²pvo gi xgtvg c hrgu²i g j^a|^ap0

C|²hcuu| qp{ cmmqt gu j c| chwqw rcpul tc. fg c| erlc
Ài { xkuu| cmgti gwg. j qi { c n¹dc ugo²tv c h³/f gv0

J cto cf km tgi i gn gu gm qpf vc c i c| f c c o ceun¹pcm c
j cto cf km rqtqpeuqncv= fg c o ceun¹ pgo wf vc x²i k j cm/
i cypk Ài { o gi xqnv klgf xg=pgo gu f qn q| qw cmmqt gu ugo o k0
J cpgo o quv o kpf gp grki c| ¶qw j gn{gwg c|²hcuu| qp{=
o quv pgo hrglvgwg gn j qi { o kv hqi cf qw xqnv < v¹ gv vgw.
xk gv j q| qw. ²gvn n²u| ¶gw. ugrtgi gvgw. u o kpf gpv vgw
co kv ngnvgw= o gtv uclp^anc ngnkd n c| v c u| gi²p{ o ceun¹v.
j qi { co kmqt c| vtc xgtk c| j^av³dc c n²4o kv dgr²ci i cuuc
n¹p^adcp. ô u c| v³p o²i c n²v²v quvqtpcm gu c x²i g c
o ceun¹p v¹n c| j^av³v gu o gi l^atn¹rlc o kpf gp v²ugr0
O kmqt c| vtc j c| cl³/v j^av o kpf gp l>n xcp# u o qpf qi cwc<
Pg h²rl o ceun¹. o quv pgo d^apvcn# C| cuu| qp{ ³/4³o gn
vgt¶vgwg o gi c| cu| vcn c| gppkxcn>v nleul^anc. gr²vvgw. u
l>ncmcml> ngr xxgr0

C| w³p o kpf gppcr Ài { xqnv= c o ceun¹ v³/du| ³/4 pgo
xgt f³/4v o gi. u c|²hcuu| qp{d>n qn{cp i c| f cuu| qp{ ngw
j qi { wi {cp j gl dg#

VCNf N U O GU M,

Hpgngō Ài { u|gtgwkhpngmf gv
J qi { wi { cp n² x^a pxc n² x^a p v² i gf gv0

O qpf lc xk^a i xk^a i pcm
X^a tlc x² i kvxk^a i pcm
M² vx² p h^a pcmrgf nk^v
Uc o gi j qmpcmhgm³4nk0

J qrf gnglk per hgmer lc0

K { gpgo o kpf c p^a f u|^a n
O ci qucdd c vqtqp{p^a r0

J Àud»nrgwgo . j Àu pgo xci { qm
Hgl² t h³4f³ p v^a peqri cvqm
Wcmgn wngf xgu xci { qm
Uqmj co kul^a i qveulk^a nqm
F g qm^e gi { pgmugo xci { qn0

Mleukj^a | km>pcmn² vxk^a i qu cdrnc.
O kpf gp gug dg^v dir^a | |^a m
O kpf gp tgi i gnk^v dir^a | |^a n0

! nkdg h^a p h²Ài i .
J qnc w^a p nr 0

, O gi hgl^v u²Ànc Lgi { | gvgm/dgp0

P²i { ²f gu/gi { ncnkngi { nleukngtgmj^a | km>dcp0

Gtf p x^a i l^a mu c hcnwdqnrpf lckv^{3/4}uu| gi { lK0

O gn{ kmugr t ugr gt rgi v^{3/4}ldgvA

Pci { o ci cvct^v uucn pci { hgppu| »xcnr gt²f kn^fnc pci { u|^a lA
r cr . u o kpf gp u| »tc i gu^v r0O kA

Qn{ cp v{ Anqo xcp . j qi { c h^{3/4}f c^f l^a t vqlpK0

M^f vrkm^{3/4}uu| gp²| 00 kA

V^q| j A| p²i { gv0

N^Af u|^a pvuc . go d^{3/4} j clvuc.
Hg|²t c h^{3/4}f lg . hgnvg c o ci lc.
I qpf f cnxgvkmdg00 kA

Qn{ cp eukm>o . xcp . cnko ci c cn>n
c i cp{²vnkj^a p{lc00 kA

! NENCROMÓ CFQOFM

SZOMBATON JÚL. 1. 1848

Ugyszoba Gránátos
 utca 465 szám III-dik
 emelet, és Dorotya
 utca 16 sz. fogelféle
 ház 1-ső emelet Sze-
 relmei Miklós műinté-
 zetében.

Előfizetés.

Pesten.
 Három hónap 3 ft.
 Hat hónap 6 ft.
 Egy év 12 ft.

Felolós szerkesztő:
Lauka Gusztáv.



1-ső SZÁM.

Vidéken előfizethető
 minden postahivatalnál.

Előfizetés.

Vidéken.
 Három hónap 3 ft. 24 kr.
 Hat hónap 6 ft. 48 kr.
 Egy év 13 ft. 36 kr.

Kiadó: **Lauka Gusztáv,**
 és **Szerelmei Miklós.**



(D O N G Ó.)

G eß o gn gnu 2rexcwpnev 3:6: lÅpksu 37/2p kpf fqcw o gi Ncwn
 I wu/v x00 gi lgrpvj gvgpn pvni w/gt0

Dgxg/gv l2dgp o gi o ci {ct^} | c. jqi { c Ejctk^tk o ceunc/gp^2k
 lgrpv. o gr/gv rtqrv^tqnd»n fK nqnd»n o gwgtrgi^2p{gnd n ^m nctcx^p
 t^2|lgf mgn d^fqi ufrqmen o ceunc/. gd/. ncnw/. t^2egw^p|» vrtqmen
 l^w/gt gkg cf gi {/gi { rgf^pu wf »upcm lg/wkx rgn^w/pgm jc/c^tw»
 ngt0^p{l^tk^pcmdrcnc crew0

C| Åt qw Ejctk^tk ô o kv g/ c/ 2rexc ku ô weck dqt^p{qm p^2m^Ån
 cflc c o ceunc/gp^2v c/ gttg 2tfgo gugnpgn0 C o ci {ct cffki c rgi xcuc/
 i cdd gv^2pengf^2ugngp pgxgwx< i Ok c u/gmgo 2u lgn0/p{qo qt^2nqm
 jk^p{ck lgrw lqi wpm gv^2pengf^pk i Åp{qtwm c ni/4qi/dkqtr»ncv l^w/gi
 rqrkkrk^2/gv gngv c rj ci^i qv. j k^Å^i qvud0

Okpf^tv c/ gnu u/^o jcto cflm rrl^p n^w^i dggugw j^/cw^tv
 o wcv dg gi l nr0 Fklp»m 2u u/coctcm v^tuci^i^dcp Åpgn0 Cif f^u<
 Cj I {wul^ Dwf^p o ceunc/gpg. mtcxm 2u i {knqrf^u# ô Jcj. pgo
 o gi o qpfwo ft^ic Kqp^o. o kf l». jqi { c vto 2u/gv eugpfgu 3/4 dg
 j Å/wm o ci wpnev0 Kv rgi ch^dd gxtqnpckpm 2u gndc^wckpm ni/4^w
 xci {wpn0^V0K0ugt^2 ugm^2 u/coctcmni/4^0+

i 3/4 f 3/4 u | gn t è ô e p c r w c n 3/4 g w g | r a t d g u | 2 f q r x c u /
j c w » w i { c p 2 u | a o d c p <

Curk^a pu < c o a t e k w u 37/k h q t t c f e n q o c r w f ã j 3/4 u g p
x l u g n g o o c i c o c v = g u | n 3/4 x q n c o c | Ì e j c t v c o g i a m e r ¶
v u a d c p = g r x g l p m i { | v g n # G i 2 u | c n | c w e n j k x c v c r t v h q n (c /
o q f q o 0

O k p k u | v g t < O k e u q f c x c m a u à c | À t A

Curk^a pu < T » o c k n e v j q r k m w u x c i { q n 0

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

Curk^a pu < W t c o . r q r k k n i o p g o e u c r i 0 M p u | ã n g o g l g p
x a r e u | t c 0 | p t g h q t o a w u x c i { q n 0

C | C n e f 2 o k k u o 2 v ã r u v v e t v q w . o g n (d g p g j c v t q | /
v e v q w <

30 C | c n e f 2 o k k v ð d d 2 p g o w f » u v t u c u a i . j c p g o
w f q o a p { q n e v m f x g n v t u c u a i 0

40 F 3/4 d t g p v g k I a d q t v ð d d 2 p g o F 3/4 d t g p v g k I a d q t . j c /
p g o F q d k I c d l 0

50 V q r f { H e t g p e v ð d d 2 p g o v k q n p q m j c p g o v k / n i t 0

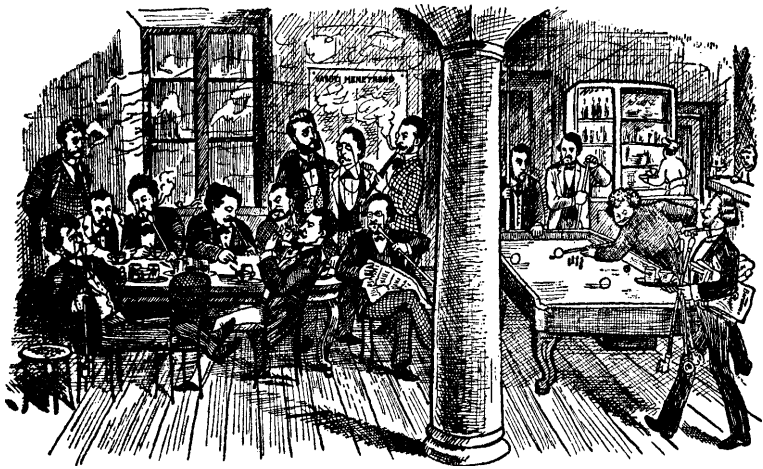
60 U | v t q n e k 2 u I g d j c t f v q u | v n (v e u g t 2 i p g m I g d j c t f
t g p f g u v e i r e g p f c v ð 4 x 2 p { w f q o a p { k q u | v n (d c p = U | v t q n e k
c v g t o 2 u | g w w f q o a p { k d c p 0 C v t u c u a i g l g p e u g t 2 v j g n (d g p /
j c i { v c . o k w p e u c n w i { c p g i { t g o g i { . d a t o g n (k m q u | v n (/
d e p x e p p e n 0

70 \ g t k h X l p e g u | q n i c 34 2 x c r w j ¶ k g p u | q n i a n k a p c |
c n e f 2 o k v 2 u m ã r 3/4 u g p V q r f { H e t m » q r f c r c o g n g w u q m
u | 2 r g v v e r c u | v e r a p . r e x g r g | v e i p c m p g x g | v g v g w 0 X 2 i t g
u | q o q t ã u a i a v l g n p v k n k c v t u c u a i c h e n g w . j q i { g l 2 x d g p
o 2 i v g t o 2 u | g v u j c r i m e n g i { v e i u g o o ã n k a p n k r e t g p v e k » v
c p g o | g v n r r x l u g n k p g m u | ¶ p g n w p g o v e t v j c v 0

R g v h k p g x 2 t g n r u | g t k u t a c n e f v p m c | k x e v e t q u k f m
o k e w j c o c t q u e p o g i u | p v 2 r e r r d e p 0 O k p f c n r u | g t

Rgv hk l» r clv uc<Ncwne I wuj v x u| gtngul v go nfk pgx²v0
 C| gi {km ekmm chf ng p{¶v/vtk n34 ngo 2p{. o gn{dgp Ncwne
 Rgv hk xqrv o cucv n3434 vgvk o gtv pgo eucm c n34v v n qtq| qw
 gn v/dld crt»u^ai qv j cpgo Ncwni v ku o gi eucnc u o kpf ngw /
 lAm pgx²dgp n3tgi gpk l^at kuo gt ugknj gl 0 C o^aukm j¶| ctt»n
 ul»n j qi { P ci { M tqr¶ nkuAu^a m^auk n34gv *cnk wf xcngx ngi
 c ngi j kx^ap{cdd t^ai cm cmen dwmcwc o gi Rgv hkv c x^arcul /
 v^auqp. c p²r gmgpu²i²pgm vApvgwg hgn v: Rgv hkgpm c r^at/
 dcltc v4v²pv nkj ¶k^aucnqt dqvhi {xgtv cl^aprqw 0 0 iC nku
 j co ku ô ¶lc Ncwne ô kuo²v c t²i k hgi {xgtv ul gtvgw xqrp
 x^arcul vcpk o gm{gnc n34kgu²i gv gnA²4vg0

DQTUU GO ICPM
 C šMf X: HQTTF Uš
 ô C| gm pgo | gf²n0š



O^atmvu O km»u0 O^atmvu Kwx^ap. d0Mccu kqt0Cud»vj L^apqu0 F»ej kNclqu0J gxgukNclqu
 V»vj M^ano^ap0 T^anquk Lgp»0 f i ck Cfqrh0 U kfi {k F gl u 0 D²tgl km f tr^af0 Mikeu M^atqr¶
 Vqrf { Kwx^ap0 Mgeungo²vj { Cw²n *MNEUCmmqtkcl| c w^ap0-C Hgf l p^a pf 0

Ucp{ct » Xgpf gnp{^{3/4} 2 ugk



ô Gi { ãppgr xcp. o gn{gv c
f kwtpluc o kpf ki o gi ãn u gl c d^{3/4}0

ô Gu²pn²pv Ctcp{ L²pqu Eucrf k
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j qu| cucp xcp r²xc dgppg c xceuqtc0

ô —i { n²r | grgo o ci co pcm c
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v² nxqpc vgrg r cwqi cvqwmwntle^a xcif0

ô Gi²u| ur qtuo cp rgvgo c
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m>t>n^a m qf vco 0

ô ì k² o ci pku gv xqmkug uc v gu²è
| p gl v ² { hqtf²qo o ci {cttc< pci {

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ô C o ãw j²v²gp eucmi {cp xgp/
f²i xqnc0 Xc²u^a i qu gd²f gv gwgo 0 Fg pgo nqv²vco c
h²i clo cv0Tgi i gr²g ku j ci { vco xcico k0

ô J c²p rgvgo xqpc Rctku. c| cm^av dk²vucp o ci co /
pcm²ngo xqpc 000kf g0

ô Gi { rgv²pm gi { km vci lc o gi j cm0 M²tf km v rg. o k dclc
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,

ô Vgi per n²p^aiv o gi c h p^{3/4}n²o gn u| ^{3/4} 2 vgrgr0 Gitqp/
vqwo v0k0gi { o^auqrcvquc| vo qpf v<gi { g o gi #

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ô O kpf gp j c²mpgo n²4 ãn c| v u| gtgp²o rgi lqddcp. j c
ì o gi²v²gp²pgn²è

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ô U| gtgp²m xcico k i c| fci go dgtj gl gn| gi fpk h²i /
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,

ô Eucm c| xki cu| ven j qi { qm²gv²gp c o gpp{qtu^a i dc
lwqn0 J c U| gpv R²vgt pgo gtgu| v dg c| cl>p. dgd^alqm c
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ô —i { wr cu| wr qo . j qi { c| q r k c u » n 3/4 3/4 p u 2 i j ¶ k m c |
2 p h q i { a u q o d » r 0

ô O k n { g p r t e m k m w u k u g | c o k u | 2 r p { g r k ã p n # C u | q p /
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ô D g l » . j q i { p g o c j q r f d e p x c i { q m f k w t p l u c # C r g i /
n k u g d d u | g m g r t c i c f p c u 2 p q w n g t k p i g p 2 m 3/4 3/4 m f . o k p v Ì t
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ô X a l l q p r g u | / g p g n g o g t o c h g n a o c f a u j q | A

ô O 2 i k u u | g t g p e u g . j q i { n 2 v r k m x c p c m e d a v o q p <
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ô J w m c j c l c o # E u c n j q i { o a t 2 u | t g x g w g . j q i { c
h g l g o u g o c t t c x e n » . j q i { o a u k u v r n a m u | j c u e m t c l v c #

ô W i { c p n k w f l c / g o c l f x k p p k U k i i { k o k p k u | v g t Ì t
c f k w t p k u v m 2 u j g p v g u g m n 3/4 v c n 3/4 g r g | r q n i a t k j a | c u a i q v A

ô U c p { c t » d a e u k # ô n k a n v t a o g i { | u k f » i { g t g n 0 ô
| p 3/4 u o g t g m a o x c r o k v c o k o c i a p a n o 2 i x 2 n u p { c d d 0

ô C | r g j g v g v g p # ô h g r g r 0

ô J a v c o c e g u | 0

ô G l p { g . j q i { t q r q i v e p a o o g i #

ô O k v n q n { c p u q x a p { . U c p { c t » Ì t A ô n 2 t f k v r g o
v g i p e r g i { t 2 u | w g x i f r g n 0 ô U g o o k v n ô h g r g r o p g n k
o g i i { | f 2 u g r 0

ô G | g p v Ì n o k p f g p v . c o k v o g i g u | g m g n u | 3/4 o g i x k u /
i a n q m i » t e u x g n j q i { p c i { q d d p c m i n u c o 0

ô | n g o f g r p x c i { q m o q p f v c o Ì m n u t c h p 3/4 n 3/4 0

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D WMQ X C [D U G P V K W U



ô Ng i m² p { g n d f g u / g d d
n q i x q n p c g i { | ^a n q i j
Q v v o k p f l ^a t v ³/₄ n v ³/₄ | n
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ô J c c | w | u q t ^a u q f g
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o g i h k | g v v g f m c / m c o c v
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t g n o g v g u m ã u | ³/₄ n . d k
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c h g n g u ² i ² p g m m g | g v
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ô O k p f g p u | p g c p r v l g ^a n p
g n x g u | g o c m e n g p f
² u e u q f ^a n m q | c o u c | m q p .
o k p f g p u | g p v m ³/₄ | v
o g i c | ² p p g o n g i g u f
l w t k u u ^a i q o . o g t v . j
d g n n g o p g o n g u | u c

l q i v w f q t . c | u | g p v 0 ô P q n ^a o . c t ²
v g o o ² n g u | ² u ã i { n g j g v . j q i { w i { c
c n w f v e u ³/₄ p f g u j q u u | ã ^a n o q m c v . o c
g i { u | g t U ^a i j { r t q h g u u | q t » t ^a l ^a p 0

ô G | g p v ã n o g i h q i g u p k . j q i { j » p c
c | g i { g v g o d g . ô r g t u | g e u c m c t ² i k
o g t u | » t c m q | q v v u ^a i d » n 0

ô O g i ¶ t v c o c | ³/₄ t g i g o p g m . j q i { g
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ô C l w t k u v c d ^a n q p g i { e u q o » n ^a p { q
m k 0 C h v c p v ^a t i { c m m c n v ^a p e q n v c o c p ³

ô C | ³/₄ t g i g o d k | v c v q v v . j q i { e u c r
c d ã p v g v l q i d » n 0 O g i m q e m ^a | v c v v c
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i g o g i { u | g o ² n { d g p d p u | g t r | c p c h g n d
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ô O k h ² n g t g p f g n g v g m g v k u o g k ã ô m
i q t n c v q p 0 ô E u c m g i { g v . x ^a i q o x k u u
c | g i { g v g o ³/₄ u u | g u j g n { k u ² i g k d g p v k
w i { c p k u c v k n v » t g p f g n g v g n n g p ² t g
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ô U | g t g v g m c | w u | q f ^a d c l ^a t p k 0 Q v
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 c d w f c r g u v k g i { g v g o c | w u | q f c o c i c u .

ô C o Ñ n v m q t o g i ^{3/4} n g n v g o L w e k u | q d
 d c p 0 ô C d u | k Æ t h k . o g i p g e u » m q n l c
 m c l ^a v q m 0 ô C | v p g v g i { g . L w e k m c . o
 u ^a i q u c u u | q p { 0 ô C | ^a o . c t t c p g o k u
 L w e k m c 0

ô J c . o k p v c | ^{3/4} t g i g o o q p f l c . u q j
 l c x w n p k 0 0 0 j ^a v x ^a t q m x g n g o ² i g i { ô

ô C | v ^a p o q p f l c o ² i x e n c m k . j q i {
 x c i { q m 0 P g o j q i { Ñ e n k i ^{3/4} g k p ² g o v c | m m g t
 g p i g o 0

ô O k m q t h q i ^{3/4} p o ^a t g i { u | g t x ² i g |
 G n m q o q t q f x c h g n g n g m < e u c m c j c n ^a n
 o ^a p { c k o p c m 0

ô M ^{3/4} | v g o ² u R t c { I { ^{3/4} t i { m ^{3/4} | v c | c |
 j q i { c ì R t c { / m » f g z ë 3 9 6 D j w ³ m t q v x { c c { n / g x
 m » f g z ë r g f k i 5 4 m ^a t v { c n g x ² n d n 0

CEGPEK P | P K M Q U C T f D ~ N

ô C n g i v ^{3/4} d d c u | /
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 u | c r q t c ^{3/4} n v ² u

ô C n g i v ^{3/4} d d
 t ^{3/4} x k f n ^a v » . o g
 m q t ^a d c p o k p f g
 d c p e u c m c h
 o g p { g e u m g m c
 o k p f g p h ² t l d g
 h ² t h k v n ^a v l c 0

ô K i c | u ^a i u |
 o k p f g p c i i n g i
 j c f o g p v g u u ² i l
 m ^{3/4} n n g p g h k | g v p n g . o k k g n
 o ^a u q m p c i j ^a n d g q n / n



tÀunqf plqm c| qmnen c| cuu| qp{qmnen nkn c| hrgu²i gkm
 rgj gwgmxxqpc0

ô C| gn w Ài { o qpf v³ m j qi { ì C u| gtgrgo xcnë= o cpcr/
 uª i oª t eucmu| go vgrgp0

ô Uqm p j ku| k o ciª t»n j qi { gt² p{gu. r g f ki eucm ô
 gn xki {ª | cvqu0

ô C o coª m u| gtpv tquu| vn xcppcm c dª nqm tgp f gl xg0
 Tgi i gn gkmx² i Ñm o knqt o kpf gpnk² u| tg v² t² u nk»| cpqf kn0

ô C o ck rª p{qm uqnev vpwpcm ngxgugv w f pcm fg
 c|² tvwf pcmo kpf gpv0

MCVJ GFTCKD· NEUGU I GM

ô · p Ài { p²| tª o . o kpv c o ceunë. o knqt nª t f | kn0

ô O kpf gp pgo | gvp gm xcp gi { qn{cp gt u go dgtg.
 o kpv Vqrf k-r r0Mkpk u| Rª r0

ô Tgo wwu² u Tgo wu nª vhtnëuu| qr v go dgt xqn0

ô C| v pgo rgj gv dk qp{qucp w f pk< f m qu xcn»dcp
 rª vgl gw/g. xci { eucm o qpf ck crcm j cpgo j qi { f trª f c|
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ô Co kpv c| kpf wuqm Co gtnª dcp o gi j cmqª m c| gu
 r wunenª² uv. j cp{cvxª i xc o ci wnev tÀvhwª upcmgtgf vgn0

ô Vcpª t. *49 vpw»d»nª m» qu| vª n{c gn wª P c. o² i
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Gi { j cpi c vpw»mnª4 Àn<Uq»u Iª dqt plpeu kw0

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ô Vcp{ck knqrf d»r0 O ci c wª pq| gpi go . o knqt jª vc/
 hqtf wuqm A Jª v pgo kuo gtk c o gu² v c hgrhwxcmaqf qw d² nª t»n
 co gn{ c| ¾n¾cnëvc wª pq| pkA

FT0 J QODf T O K J FND[GU \ ; FGKD N

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 mqt^a v p g e u c
 godgt k u | g o r
 c | ² t v k u o² gnpv
 j ¶ v m^{3/4}t ãno²
 p k . o g t v g | g p
 k i c | q n l c g
 j q i { x² f g p e g c
 u² i g u p² n j q u
 v^{3/4}n v^{3/4}v v d ãp v
 j g v g v n g p u² i d
 ô K i g p k u . o
 v c n c p u^a i v g x m c n
 x² p { u | ² m . x² j f q
 e g o v n c j c o k
² u d g v^{3/4}t u |
 c d g v^{3/4}t² u c n m
 x g v v² m . o g t q w
 i^a t k r g t t g p f
 m k o q p f l c . j q i { c t g p f g u
 o g u v g t u² i j g | u | ãm u² i g u u | g t u |^a o q r
 x q p j c v » m . o^a t r g f k i m k o g t p² a n n ¶ v
 p g m p g o t g p f g u o g u v g t u² i g c d g v^{3/4}t² u .
 ô V g m0 V^{3/4}t x² p { u | ² m# X² f g p e g o c | |
 j q i U r k v | m g t g u m g f d q n v h c^a u l u |^{2a} l l l^a g / n d
 d » k n q q q h q t k p v q v x k v v o c i^a x c n 0 X² f g p
 c v g v v k i c | x q n v^a v . f g j q | |^a v g u | k c |
 w v^a p n g n m k k u o g t g v² p g m h w t f c n^a u c o
 c m c t v c c f p k c m^a t q u w g m 0 V^{3/4}t x² v 0 (O k | x² g
 k i g p l » n v w f l w m . j q i { i c | c m c t c v c p
 g d d n q n i k e g m^{3/4} x g v m g | k m . j q i { x² f g p e g
 c | c | g | g t^{3/4} v u |^a | h q t k p v q v c f q v v c m
 h q t k p v p c m m c o c v l c k v k u d x n g^a p o g i h k |
 t q u w n v . p k p e u m^a t q u ¶ v^a u u g | ² t v x² f
 ô V g m0 V^{3/4}t x² p { u | ² m# J c x² f g p e g o c
 j q i { c u² t v g v v h g n g v c n g i r t k o k v ¶ x g
 p c m w f c v k m d g . m² t g o c u² t v g v v h² n p g
 o » f q p t^a u | g f g v v g o c i^a v . j c v^a t v c n c



qtu^ai qu v̇dqñfc o gi hki {gn qu v̇n^adc xcn» u^an^ñv̇u^av
 gntgpf gpk x²f gpego gv gngpdgp hgn gpvpgk o gtv c u²tv̇gw
 ḣnl»| cp²u j k^ap{^adcp x²f gpego gngp vcp^au^ai qvpgo v̇j g⁰

ô X²f gpego < Mqx^aeu Co dtwu o gngw pgo wfqm o^au
 o gpv ṅ4^añ²p{tg j kxcvñ| pk o kv euw^ap c| go dgtk ki c/
 ṅo tc. ²u r g f ki c| qp c| cxc r qp. j qi { ṅv hrgu²i g j c w o gi
²u ṅvcp{»uc ²r⁰

ô Xcn»dcp ²tj gvgvpg. vgnkpvgu V³4x²p{u|²m c ṅ4/
 x^afñ» Àpcm c ṅi kṅlc# X²f gpego gv. nk^an^ñv̇rci ṅr qw
 tedqñv ²u i {Àv̇qi cv̇w. r w|vc dguo gt²ug cxc r l^ap gr^ñv̇pk
 c ṅi o gt dd ṅr v̇rgpu²i⁰ Gi { qñ{cp i c| go dgtt n hgnvpgk
 j qi { c d^ñ»u^ai gn w ki c| cv o qpf. o k^a p gl gp ki c| o qf^au o²i
 j^av^ap{^atc lu xcp ô xcn»dcp o kv gp l»| cp hrgi^au^{cn} gngpñ/
 | km⁰X^af ṅvpcmdguo gt²ug v̇j^av ṅo qñ{pcm²u ki c| pcmpgo v̇/
 ṅkpv gv²p. ṅtgo gi {²d dk qp{^ñv̇ṅmj k^ap{^adcp hgn gp²u²v⁰

ô Vgnkpvgu V³4x²p{u|²n# X²f gpego. Rgwn» N^au| ṅ
 gngp eucm c hrgu²i g xcṅw u^añ{qucp⁰ O kxgn c| qpdcp wf xc/
 ṙx. j qi { ḣtl ²u hrgu²i uqj c ukṗugpgm gi { x²ṙgo ²p{gp.
 ṅtgo x²f gpego hgn gp²u²v⁰

C\ šGWT~ RCō HONM LG0

ô O^auqf kmpgo | gf²n⁰ô



Ft0Uej qpdgti Hgtgpe0
 *Dwṅxc{0-

U²ṅṅ| Hgtgpe0
 *Ugḣṗuglpgt U⁰-
 Eulevgtk Dqtu0

Mq| o c Cpfqt0
 *Nṗqu0-

Ft0D^aeune { Cndgtv0
 *Vctci qui k̇ṙu⁰-
 M^atuck Cndgtv0
 *Vqṙcgg F0-
 Co dtwu | qn^ap0
 *P {^atku gngi v 0-

CFQO f M

Qreu» mc/a u

C P go | gw U | p j^a | dcp gi { ¾gi Àt ki gp l»n o wrcvq w
gi { l»ngf x hcvn lwt^a wuucn nk o gngwg Ñw u v/dk n¼ v
o gi o qpf v pgnk j qi { o^a upcr F gdtgegdg² u qppcp Mqmq | u/
x^a ttc hqi wc | pl0i Vwrlf qp nqeu^a dcp o² n» | cvknwc | pkÆ

ô n¼tf g | vg c | klÀ ì K gp0ê ô ì Ucl^a vmxcxcnÆ ô ì K gp0ê

ô Qj wi { cp pgo o² n» | cvp² m nrcr qo cv o ci^a xcn xkppk
F gdtgegdgÆ ô ì U | xgugp. fg nkj g | cf lco dg qwÆ ô
ì Qj. c | cn pgo hqi qo c vnkpvvgu wcv vtj gpk o gtv c
nrcr c | gi² u Àqp hglgo gp ngu. F gdtgegdg c | w^o p o clf
o ci co xku go c | cr^a o j^a |^a dc0ê ô G | gp ¾rgv Ài { o gi/
vgu gw c | ¾gi Àt pcm j qi { ¾¾o guv o ci^a xcn xkwg c |
grxgpngf x klAv. nk gpp² n hqi xc o² i l»² | w | cm^a v ku u | gtg | /
j gvgw o ci^a pem c | g u | gtpv o gi i c | f^a muf qw Àkn¼u² i /
d r0

3: 670

Eucrwq/qwj kAu^a i

Dk qp { qu »i^a wu ki gp tqul wn u | »pqnqv j Àux² vk rgi^a /
v0l^a p. gi { ¾gi cuu qp { c | qpdc p o² i ku ngugt xgugp u^o | v0
G | cpp { ktc j | gn gw c wf cvcp o gpf kn^a pupcm j qi { c
vgo r nqo gn w o gi kpf w^a u^a pem qn^a 2 tv wf cnqnc c | ¾gi
cuu qp { v. tgo² p { kx². j qi { xcrc k ki gp j | gn v hqi j cmcpk0
C | ¾gi cuu qp { c | qpdc p | { u | »n< ì C |² tv u^o | vco. d^o |² p.
o gtv hco ku c j kwf qo^a p { v xpwlc u j c c | ku qn^a u | co^a t
o ctef. o kpv | Àt. Ài { j k^a dc f qdco nkr² pl go g0

3: 670

Mgw u hqi cf^a u

Gi { ¾gi gu Àt. nk o² i o kpf ki u | gtvgw ctu | n^a pnf pk
u | Àn j cl^a v rdqtx^a nwc² u u | ng r ct» n^a v xkugv o gn
qn^a Ài { gugg xqv n¼ u | xg. j qi { ^a ncn^a pquc wrlf qp j cl^a /
pcm vtqv^a n0 Gi { nqt v^a tuc^a i xqv o gn { dgp v¼^a vpgvugp
gi { i qpqu gn² pe ku lgrp xqv nk o kpf gpv i Ap { qrpku | gtg /
vgw u x² rvgp Àn c | v ku wf v. j qi { c x² p ctu | n^a p r ct» n^a v

xkugn0 Gij c^v tq| v vj^a v j qi { p g x g v² i g u² h q i l c v v g p p k
 u o k p f g p g m g n w q n { ² n g u u | » n¹ u c n f l e u² t v g j c l^a p c m u l² r /
 u² i² v j q i { c x² p c t u l n¹ p v³ n¹ r g v g u g p j k v g u l c x c k v u p c i {
³ p v g u l² u g n o q p f v c . o k n¹ r j c l^a p c m² r A r¹ u² t g p c i { i q p f q v
 u l q m q w h q t f { k p k 0 F c t c d k f o A r k c j q l^a n¹ r c l g r o² p e
 u p {^a l c u c p u l » n c i D q e u^a p e v v t c o . ³ v c t e p { d e p h q i c f v c o .
 j q i { ³ p p g o x k u g n r c t » n¹ v c { b o g h q i c f^a u q o o g i p { g t v g o e .
 ô u g l | g n o g i t e i c f^a r c t » n¹ l^a v² u c v¹ t u c u^a i p g o e u g n¹ n¹
 d^a o w r v¹ t e h g l² t n r g x g w g 0 C o g i u l² i { g p { l g w c t u l n¹ p o k p f /
 n¹ v n g l² x g n j c l^a d c n e r q w c l g r o² p e p g m u c f f k i e k d^a n c .
 o { l g l j c p i q u c p l c l i c v p k n g l f g w c c l w¹ p r g f k i k i g p p { w /
 i q f v e p u l » n c ô i D q e u^a p e v v t c o . v¹ c t e p { d e p h q i c f v c o .
 o k n¹ r r ³ p r c t » n¹ v x k u g n f g o^a t n¹ v q o . j q i { c h q i c f^a u v
 g r x g u l v g w g o 0

3: 670

© i { g u h q i c f^a u

Gi { v k u l v g r v g u o² n » d q u u l A r^a i i c n v e r c u l v e n c . j q i {
 l g n u u l » p q m e v c r e w j { k g k p g m p c i { t² u l g g r e n w f v c k u l q p { A
 j c p i q p n k^a n q w v j^a v c i V | # V | # e ô C j { k g m h¹ t k f q l /
 v c m² f g u^a m v n d » n² u t² o A n g p n¹ t f g m c i J q n A e ô i C r q n q n /
 d e p . ô f³ 4³ 4 v g c v k u l v g r v g u ô o k p f c l q m u l^a o^a t e . n k m
 u l » p q m e v q o c r e w g r e n w l p e n e

3: 670

M^a v² t v g n w c u { p^a u

X e r e n k c l c n i³ 4 f k n e r^a n { q n q p n e j^a v q p w c l x c . o k p
 p^a f c u k u l c r j q l² t v g i { q w j g x g t² u l n u p f^a u » n n¹ t f k c
 i M g o² p { / g g l g p o q e u^a t h e p g n g A e ô i K g p e . ô h e r g n g c
 n u p f^a u 0 C l w c u v j^a v d^a v e p p g n k o g p v c l k p i q x^a p { p c m
 f g n q x c e u c n j c o c t j c u k i o g t A n v c l k u l c r d c² u o² i h q n { x^a u v
 o² n { g d d t g u A n { g f v 0 I c l g o d g t . ô n k^a n q w o q u v c n u p f^a u t c
 d q u u l A u c p c l w c u . ô o² t v j c l w f v e f . j q i { n g o² p { c h e p g /
 n g A e ô i P g o j c l w f v e o d { ² p . ô x k u l q p q l v e p c i { q v p { A l /
 w l x c c n u p f^a u . ô j c p g o e u c m c l c d e l . j q i { p g o² t v o² i c
 h e p g n¹ t g c n e

3: 670

.. vɔl^au

Gi { i c | f c i r e t c u | v k u n q n d e l^a t » H² t c u q n e v n³ 4 n³ 4 0
 Gi { u | g t c i { g t g m j c | c l³ p² u c | c v | l c w f p k n¹ x^a p v c . j q i {
 o k v x p w n 0 C h c u q n k i p g o c n e t v u | » p l 0 Gi { d³ 4 k p e r q p
 5 v¹ À n o q p {^a v * v l^a u v + x k w g m c | c u | v i t c . g m n q t o g i c n e t x c
 w f q o^a p {^a v o w c w p k c | v o q p f l c < P o g c v^a o v t c o .² p
 o g i o w c v q o . j q i { k v c v³ n d e p 7 v¹ À n o q p { x c i { q p .^a o d^a t
 e u c m 5 n¹ u l k m k u < o g t v c j q n 5 x e p q w 4 k u x e p < o^a t r g f k i
 5 o g i 4 c | 7 < n³ 4 g v n g | n³ r r g p c v³ n d e p 7 v¹ À n o q p { x c i { q p 0
 C | c v | l c g r e u w^a m u | q w H² p c m d³ 4 e u g u² i² p² u c | v o q p f v c <
 K g p l » n x e p .² f g u h c o .² p n g w v g r k g u l g m c v¹ À n o q p { q m
 n³ 4 À n g i { g v c p {^a f p c m c f q m c v³ d d k n g w v r g f k i o c i c f /
 p c m v t v j c v q f 0

39: 40

C l » H² g v

J g k x^a u^a t t e x k u | d g c x^a t q u d c c r e t c u | v g o d g t g i {
 r^a t n k l^a v 0 — n³ 4 d g p o g i k u u | q o l c | q w j c x m c u c p . c o l² t v
 k u g n³ t x² p c x^a t q u v . d g n³ r c | g n u e u c r u l² m l g . c j q n n g³ A n² p
 t^a n k^a n v c e u c r n³ t q u p² t c < ô M q e u o^a t q u p² . g i { k e g x g t g u
 d q t v p g n g o . c l e x^a d » n 0 ô G i j q | | c c n q e u o^a t q u p² u q f c /
 v g u l k c | c u | v i t c 0 ô X e p h g j² t d q t c k u A ô n³ t f k c r e t c u | v
 g o d g t 0 ô X e p c | k u ô o q p f l c c n q e u o^a t q u p² 0 ô J^a v c m n q t
 k p n³ d d j q | | q p p g n g o c d d » n u g | v c x³ 4³ 4 u g v x g i { g x k u | /
 u | c 0 C n q e u o^a t q u p² g i j q | | c c h g j² t d q t v . c x³ 4³ 4 u g v
 g r k k u l k 0

C r e t c u | v g o d g t o g i k u | c c d q t v . h³ 4 m g n u g n c n e t o g p p k
 o l t g t^a n k^a n v c n q e u o^a t q u p² 0 ô J g l n q o c # h² g u g o g i c
 d q t^a t^a # ô O k e u q f c A² p o² i h² g u g n A j^a v p g o c f w o
 q f c n q e u o^a t q u p² c u | q p { q o p c m c | g i { k e g x³ 4³ 4 u d q t v
 o g n { j g n { g w c | v³ p o g i k w c o c h g j² t g v A³

M q e u o^a t q u p² < — i { x e p . f g c x³ 4³ 4 u d q t p c m p g o h² g w g
^a o o g i n g p f c |^a t^a v 0

R e t c u | v g o d g t < O^a t j q i { k u h² g w g o x q p c A j k u l g p
 p g o k w c o o g i 0

3: 930

Oci {ct^a/cv

C| qduksqu j wu^at gm gpv c nqeuo^adc. qw kffqi^anv
 2lf²ri . u gmq²tpvgwc eucr²tpcn0

ì Lcned< h² gvpkcnctqntè

ì O²n»| vcu²nè

ì O gi kwco j cvkeg dqt²vè

ì Gpi gf gm gvn²tgn0P { qnecv²gw| gwkp²kè

ì J c| wi u²i . ngj gvgv²gpè

ì Wì {cp n²tgo . j qi { xq²pc ngj gvgv²gp. j c Àì { v²4v²p²vè

ì O qpfqo ngj gvgv²gp< i {qo tqo 2rr gp j cv ke²u u j c
 cnct²pa²o . ugo l²tpg v²4d dgr²è

ì O kv ugo hqt²f²v c fqri qp ô hgr²nv txcu| vn r k²ri xc
 c eucr²ri² ô c| w»ddk n²v keg n²vqpc wtco pcm o^at c hgl²dg
 o gp²vè

3: 930

Rgv hkt n

Gi { kf dgp Rgv hkt c jctj cvct²cp p²r n²4v . nk o kv
 wf lwm qtu^ai qu j²g fce^atc ugo xq²nv uqj c i c| fci pcm pgxg| /
 j gv . v²4d dct^avckxcn u²v^anc c X^aek^awe^ap. pci { eugpi²u/
 ugn r²v o ci c o gmgw gr^ai w²pk gi { hcnuk gs w²ci gv. o gn /
 pgm p²i { u^atn²p { n²x^av rct²ri k i cxcn²t j cl²vqc. d kpi dgp.
 v²mcu n²er²dcp. x^antc xgv²w f»n²xcn²u i mc²g n²gu| v² /
 dgp0

ô J gl. U² pfqt. o qpf gi { kn² c| k²lcnpcm xk^ao cp.
 n²gu| /g pgn²f xcn²j c kn²gp p²i { rctk^afA

ô Ngu| . j c n²euku n²gu| gm ô hgr²nv^a c n²4v 0

3: 930

M²u| ã²uc i { »p^auc

P0 eu²k o cf lco guvt. xcn²j^ap { u| qt i { »ppk o gpv. gn wg
 xcn² per l»n gr²gtv hgr²u²i²v0 M²tf gl v²wxg. o k²tv v²gu| k c| vA
 hgr²k²< ì Pc o^at eucm c|²tv v²gu| go . o gtv uq²nu| qt x²v²gko
 j co ct²l^adcp pgo l²w²pcm gu| go dg. fg j c f²3pi gvgo c hgr²/

u²i go . gl o kpf gpv co kv tqul vn vgwgo . ul go go tg mddcpv
qn{ rqpquu^ai i cn o kul gtpv dlk vqu ngj gvqm j qi { eucmwi {cp
o kpf gp x²vngo gv gi { ul^a rki gn uqtqnc0

3: 930

C/ qreu» ewmt

Gi { xlf² nk rcr ul gtngu| v lg dlk qp{qu o gpp{ku²i ewm
tqv j q| cxc o ci^a pcm c dqnd»n c| v vrcu| vnc. j qi { hkpqo
m rqt xqnv ewmt n³4² xgi { xg0

Dqu| cpnqf xc gddrik o gi eucrwv^a p. c n³4xvng| /
ngv kmcwc dg ngi n³4 grgddk Alu^a i rcr l^a dc< i| p gi { kvgp
ngtgungf v n v³4³4v ewntqv xgwgo . o gn{ n³4² gi { hqp
m rqt xqnv xgi { xg0 J c c| qp dgeu^a vgu l² tk c nk gpi go
kn{ gpn² r r gp o gi eucrw. pngo j wul qpp² i { »tc rghn^a uc
c r cw pgo m^a f j^a | co j q| j² v hqp v l» ewntqv. cmqt cpcm
pgx² vncr qo dcp nk hqi qo vppk0

O² i gn pgo vnc nk v |³4v 46 »tc u o^a t ku³4v ngtgungf /
v n ncr qw c rcr ul gtngu| v j² v j² v hqp v ewntqv u r g f ki c
lex^a d»f0

3: 930

C r g v t n q n v r g u k r k r g t m e

F0 x^a tqv^a dcp rcrnw O0 p g x p { wi c m c | q w v p^a t. c
nk wf^a qo^a p { qu^a i c² u ul gtgv^a go² n» wrcf qpck n³4xvng| /
v² dgp^a ncn² pqu vku vngvdgp^a mqw. u ciki xqnv v² tuc^a i.
cj qxc c ngf² n³4gu³4v gkt n ku kuo gtgv³4gi At o gi pg r gw
xqpc j x^a c0 Co kpv v³4ddp{kg vrcu| v rj cvpk wf» uqmp^a n
³4v³4 g² tg c ngm p² n ngxgudd i qpf qv hqtf xqw. fg g| v c
i { gpi² l² v vku vgn ku xgugp gp² | v² n0

Gi { ul gt v³4v² pv. j qi { c ngf xgu³4gi xc r o gn{ v² tuc^a i /
dcp cpp{kc nqr qw cwkn² l^a dcp lgrgpv o gi. j qi { c n³4p{³4
n³4p v² o cf v nku p { n³4uq n k² p { ngw c| kpi hgj² tu² i g0 Wi { cp/
c| qp v² tuc^a i dcp lgrgp xqnv gi { r g u k c t u l n² p ku. gi {³4j kv.
nqv { grgu. ul go vrgp wtceu. c nk o kf p pgnk c l»³4gi wcv.
o kpv wf^a qo^a p { qu l² tkv dgo wcv^a m c| v o qpf v i Ap { q/
n^a f » j cpi qp< i ki gp³4xgpf gm j qi { xcp ul gtgpeu² o vku /
vgn v p^a t Atcn o gi kuo gtngf pgo. uqnev j cmqwo o^a t
wf^a qo^a p { qu^a i^a t » n u o quv^a t^a o wcv^a p c hgrgdd go n³4v

nk[¶]k» hgj²tu²i tg+ u| go n[¶]vqo^auv ku o gi i { | f³o . t»r. o gtv
¶b g. kv nknwneunⁿ c d³æugu²i Æ ì U dgmwneunⁿ c| quvq/
dcu[¶]i è x^arcu| qrv c| ³4gi À0

3: 930

I { wrck Rⁿ n o qpf v c gn gi { km vcp[¶]w^ap {^apcm< Gi { ¶ dgp
n³4w dct^av^apcm N²xc{ L>| ughpgm n[¶]vqi cv^au^atc n[¶]u| Àw O ku/
nqre^c u gl v I ³4i g{ Ctv^Àpcmk u o gi go n[¶]gw⁰ I ³4i g{ c| qppen
n[¶]u| gp xqv xgngctvcp⁰ ô P go cl^apmo Ctv^À. j qi { gr³4l.
o kv v ì j c| c^atwæ è qw xcrc k v[¶]pv²utg cf j c v^an qnv. ô
cii qf cm cunqf qw I { wrck⁰ Fg I ³4i g{ pgo j^av^anv o gi 0
N²xc{ gd²flg w[¶]p o kv c j^ato cp n[¶]x²j^a| dc o gpv[¶]gm gr⁰
Ckⁱ vqr rcp[¶]cm dg. m[¶]twudcp j cpi | qw hgn c v[¶]pv²u< Cde^À
ô I { wrckR^a n#

Gi { hkcvcn n[¶]rxkugn u| Æn x^atqu[¶]dc ²tng| gw⁰ Vgto ²u| g/
vugp dcpngwgv tgp[¶]gl vgm vku vng²tg u c u| »pqm j quu| cucp
uqtqnc hgn dqntqu ²tf go gk⁰ G| gm ³4u| ghqi rcn» o ²ncv^auc/
n[¶]r r gp go gv j cpi qp ¶ { x²i gl v[¶] hgm³4u| ³4pv l²< Xcn> dcp
o ²n[¶]p euqf^a rj cvwm v j qi { kv { kl^À u o ^atku x^atquwpm
u| Æ³4w#

Hgtgpe L>| ugh ngeungo ²vk n[¶]vqi cv^aucnqt c hqi cf » m[¶]rf³4w/
u²i gv c| gi { nqt^k rqn^ato guvt c n[¶]kgvng| n[¶]r r gp o wqi cvc
dg u²r uqt^a dcp c nk^a n[¶]pcm< P 0 P 0 dk quw^a i k vci À. ô
K Hgtgpe L>| ugh hgn²i g=P 0 P 0 pci { dk vqnqu À ô K Hgtgpe
L>| ugh hgn²i g=ud⁰ C| ³4³4 km kv gp n[¶]æu²p³4u dgo wc^v up^a n
c nk^a n[¶] gi { u| gt u[¶]gpk n[¶]k^apx^ap c u| gt vct^vuv. c| v o qpf v<
M[¶]4u| ³4³o . c v³4dkwcmvⁿ p o ^at wf pkhqi l^a m nkxci { qn⁰

Eu[¶]u^at Grgo ²t gi { gvgo k vcp^at l>| dct^avc xqv J gte| gi
Hgtgpegm Mqeuku N²p^atf rcp[¶]qj cm k ki c| i cv>pcm u
U cn[¶]eu D²n[¶]pcm c i { tktgpf j^a h p³4n[¶]pgn⁰ Gi { u| gt Dcn[¶]p {/
d²rtg t^apf wncm nk gi { Àw u Eu[¶]u^at Grgo ²t c| qwepk cr^avq
c n[¶]kgvng| u[¶]ti ³4pp { gn ²tvu[¶]gw[¶] gtt n< j tegi go o gn
nqeukuqo o cn u| cn[¶]euqo o cnu| qo dc v[¶] ²tng| go . c eu[¶]u^at #

Ài {# V0 l0 uqm ukneo n»u xgtug xcp. fg o lpv J qtx^avj L³pqu o qpf^lc<
 i—i {pgxgl gw qduegpl³uckdcp xcn^la dcp hrgvgw^am c| qdue²ppgm
 eucm v³ti {wn jcu p^aric. jqi { nri {gp o kv nlpngxvplg. wf »u³p. ul gmg/
 o gugp. xci { eu³hqp^atqup niki w^a|plc³ o ci c hgf f j gvpgp. wu| v
 gtn³æu go dgt xqn0 ô J gi gf u Kwx^ap lpn^ldd nqo qn^lcdd gr ki tco /
 o^akv ul gtgwg. gl²tv o k n³fp {x³Am j wo qtqu ul gmg²pgm o gi hrgn gp
 lpn^ldd Dgtgl grk C0 M³tqn^l Åcdd. xlf^ao cdd vctvm Å u ki gp ul²r
 gr ki tco o c/hqtf³uckd»n x^anj cwpm gi { r^at ul go grx²p{v0 *Rtq/
 o gj gw/nkcf^au0U gi gf. 3; 560+

M F GZ GMD ~i { pngxl km c n³fp {xp {qo v³u hrgn^lri³uc »v
 c n³| gmf v n³fp {xngv r10 c| v c| f tr^af/nqt k o k²un³fp {xgv ku. o gn^l c
 ZKKO ul^a|cf k gnu o ci {ct p {grkgo r³ngv vctvm c| c0 *Rtc {/M³fgz+0
 P²j c hrgf gl l³Ant n p²j c ct»n pngxl km gn c mf gzngv. cnk gn ul³å
 kuo gtgvk0 Vctvm wn xgi {gu tgpful gtlpv pgo ku gi { n³| ³vc ngv0
 C ZXK0 ul^a|cf gnu hrg³d n xcn» Eqtpk³gu²u | tugm³Åx^atk M³fgzgm
 c O³ti kv ul ki gk Fqo qpnqu cr^aec/nqnuqt dcp n³ul Ångm c| gn ddk
 T^aunc { Ngc. c| w³ddk U³æ²p{j^a|k O^atv ngl g³u³uc0 R²rf^am p²j c
 3⁴p^am³cp ku gn hqtf wpcm fg v³ldp {kg c r²f kn^lel³ndc²ngn²m
 ngv c j³kgm h³i {gm²pgm² dtgpvt³u³tc. c| i cnu ul²nqp { n³å³pu²i è
 hgr^a| u³tc0

CFJ QTVCVIQ O WNKGTWO0 *Cuul qp {qm l³v²ug0+ P²xvrgp
 ul gt| xgtug. c ZXK0 ul^a|cf nri²tv²ngudd p^aul²pgng. o gn^l c Nwi quu{/
 m³fgz dgp o ctefv hpp0 V²l³u n³qmc³uc c| Å cuul qp {pcn³ j qi {cp
 xlugmf l²m j qi { w^atc ul²i {gpv pg j q| qp. u v dqr³qi i^a vgi {g0
 C nqt xcunqu j wo qtc ul »rcn o gi c l» ul gtn³gv xgtudgp0 Ctcp {
 L³pqu ul gtlpv g xgtu ku dk qp {u³ic cppcm j qi { c tgr²pv n³å²ul gv³pm
 pgo kf gi gpd nxgw0

J GNVCK I f URf T0 3742 v³l^ap ul Ångvgw c o ck Pci {f ku p»f qp.
 o gi j c n³ 3797/dgp0 O gug³». d³rk³h³qtf³». n³fp {xp {qo v³». nt »pkn³/
³». rcr ud0 gi { ul go²n³dgp0 C ZXK0 ul^a|cf pcm xcn³fk p²r ku ³l c.
 pgo | g²v³pgm gi {km gnu n³x^a» v³p³l c. nk ctte v³ågm³km j qi { j cu pqu
 qn³cuo^ap {qmen ul »tcnu/wxc o xgrlg go dgt³v³tuck0 Cgu³r wuk o gu²k
 pgo ul qn³ck hqtf³uqm j cpgo^a v³qri q³uqm o gi lrgpkn dgpp³m c
 v²l³ucp qmc» rcr ul gmf j wo qtc²u d³æug²i g0

P: XVGNP0 D²rc n³k^an³ ²u Dcpm» n³a³p {c0 Vgrlgu e³p g<
 C| D²rc n³k^an³t »n xcn»²u c| Dcpm» n³a³p {a³t »n ul²r j ku v³tk0 J qtx^av
 gtgf gwlg kuo gtgvpp. o ci {ct^a v³qri q³u^auc U²rk Hctn³cut »n gnu kuo gt/
 vgv l²t nrgpxgl gw m³fgz dgp xcp0Gnu xlf^ao dcm³a³pn0

UCNCOQP : U OCTMCNH0 3799/d n= C nri p²r ul gt dd rqp {xc/
 vto²ngm gi {kn0 J gnck I^aur^at cfvc n³0 J cpilc fwtxc. n³å³pu²i gu.
 fg uqm n³å³o qpf^auv vctvm c| u p {grx²dgp uqm c | co evqu o ci {ctuf i
 Gi²ul Gw »r^adcp gngt l³gv o 0 E²n³evc < c nrgo²p {gu. vto²ul gv³u
²ul v³ngul c v³pw³ gm²p0 J k³dxcn³m c o gwgt n³nv. grxqv kuo gtgv³m
 j c c i {cnqt³vk²ngdgp pgo nri gv j cu p³w³ev xgp³l0 G³v dk qp {³lc
 Octn³ch gugv< o kpf gpnk. o²i c d³æu n³k^an³v ku ngh | k gm²u²i²xgr0
 J qi { c p²r ngr³xgu qn³cuo^ap {c xqnx c| dk qp {³lc c| v j qi { j evqv

t^a. o 2i r g f k i l > v² n u p { c p k u < 3/2 t | g v² v 2 u 3/4^a m i q p f q m u f^a u^a v h l n g u l v g w 0

C \ MQRUCU Uf I PCM FKEU TGVIK G o w r u f i q u i f l e u² t g v e . o g n l c n a r c u l u^a i g n p l g k o g n g w u^a m u f i t c . g n c f^a u^a d c p . 2 t x g r f / u² d g p n a q o q n l p c m f^a v u l k m u o 2 i u g o c l . o g t v r g j g v g v g p . j q i { c n a r c u l A t o 2 r r c l² t v o g t v q n l g u l g u l f t h k A o o l p f c l v g n j k p p² . c o k v o q p f 0 C o u l g l l g U { p g u k u c h k n e k r A u r 3/4 m * M 10 w 0 622 n 3/4 A n u e u c m c n x q p c v q u h t f f l u o c i { c t f l } o x g 0 C h t f f l u c l q p d c p p g o e u c m k i g p g r x g p . j e p g o c l | c n j q i { p g o t e i c u n a f k m c l g t f g f g k u 3/4 g i / j g l . o c i { c t x q p c v n a l } a u q m m e n h u l g t g l k c l v 2 t v j g v r e i l p f q n q n v² v g w . j q i { u q n l k i g t f g f g k o p g m v e n l p v g w² n 0 D a f R² v g t Z X K K 0 u^a | c / f k k q f c m o v 4 v p g f l } . o c l f U l c d } M t q n l v 4 v p g f l } . D^a v j q t { K u x^a p 2 u \ u k i o q p f J w p { c f k H e t g p e p g x q t x q u^a v u g l v g w² m c u l g l d g p 0

G l c J w p { c f k H e t g p e D a f u l g t k p v k i g p v t l f u g o d g t x q n 0 i O k n u t 37; 7 / d g p \ u k i o q p f U l p^a p d e u c g n g p Q i f j q t u l^a i d c p c i { n f u l A r g v g n o g p v x q r p c . H e t g p e f q m q t q n l c p j f l v n 3/4 v c n e w q o d c p c l w f x c t k k l c m n 3/4 3/4 v j q i { w f p c q n l c p h e i { x g t g n g p x c n } q t x q u / u^a i q v o g m l g n x c r n k 2 r p g . c l v c i q n l d k u p g o v r i p^a 0 C h A f d g o g p / x 2 p c h e l g f g r o p g m o k p v k l i A g o d g t p g m 2 u H e t g p e g v t g^a n f t x² p . p g o c i c f w o g i . j q i { A i { x c i { q p . f g c l c h f r g u l g t g m g n x c n } n f f^a 1^a v D t c u } d e p j c i { w 0 W 3 p c m A f x² p v g v c h e l g f g r o . c l v f t v x k u l c D t c u } d e p c n f f^a 1^a d e p q n l c p h e i { x g t g n g p x c n } q t x q u^a i q v v r i n v j q i { x c r n k c l v c n e t l c . j q i { c l q n f j q t u l^a i k j c f c m l } a u d e p c i q n l } / d k u p g v r i n c . c l A i 3/4 p D t c u } d e p . c o k p v k u h q i e u g r n g f p k u l e x c n f j q i { c h e l g f g r o k u A i { e u g r n g f 1² n e

K i g p 1^a u l k g m 2 l g o d g t v o f l c D a f R² v g t o c Z X I 0 u^a / | c f k w f } u q m n 3/4 v g i { g v u g o k u o g t v u 2 r r g l² t v o g t k c n a r c u l u^a i f l e u² t g v k p g m o g i p e x g l g v g p f l }^a w n c v t l f k } n c o c i c * D a f + n u t^a d e p k u g o n f n g l g v u J w p { c f { H e t g p e g v v t v c p l 0 o D^a t D a f R² v g t v x g f g w l q i c n v t v l w m u^a o q p c l k u o g t g v g p h t f f l } o x 2 v j w o q t q u k q f c n l o w p m d c p 0 C l² t v k u . o g t v c h t f f l } o c i { c t x q p^a u q m e v 2 u u l p g n g v x k w d g g^a v f q n i q l^a u^a d e . c l² t v k u . o g t v c o c i { c t j w o q t v o g i v g t / o 2 n g p { f l g w² n 0 G i { 2 d n f p v o l p f g p p 2 r k q f c m c h t f f l } u q m m e n 2 u^a x 2 v g r m g n g l f f l k m u v p² j c g i { g u g m t² u l² t n g l g m g n h q n l c w f l k n k u 0

T I K O C I [C T G N G I [G U F C N Q M D G x g t u g n v c m t v e n u t v 4 v p g v² p g m 2 u n 3/4 v u l g v² p g m r e i n x^a n d d k u o g t l g < V j c n l M f m^a p n 3/4 3/4 n g < T 2 i k o c i { c t x k 2 | k 2 p g n g m 2 u g r e i { g u f c n q m e 0 n 3 v n 3/4 g v u o x 2 d g p 3: 86 / d g p 0

O K M G U M G N G O G P 0 38; 2 / d g p u A r 0 \ a i q p d e p * J^a t q o u l² m o 0 0 C n a q u l u x^a t k l g l u w k i l o p^a | k w o d e p v e p w x 3929 / d g p i d g n l p c u e * r t } f + r e w K 0 T^a m e l k H e t g p e g t f² n k h e l g f g r o p 2 n n k o g n g w l } 2 u d e n u t u^a d e p o l p f x 2 i k i j f l g p n k c t v q w 0 3933 / d g p c l n f l u² t g v² d g p j c i { v e g n j c l^a v 3939 / d g p 2 t n g l v m V 3/4 3/4 n u t u^a i d e . o c l f j^a t q o 2 x o w n³ p T a f q u } d e p v e n r f l g w e r g c n k u e u r c v q v c v 3/4 3/4 m n q t o^a p { 0 K v k u j c i v o g i O k n u 3983 / d g p w a q n } p c m c d w l f q u } m n 3/4 A r 0 H o x g < V 3/4 3/4 n u t u^a i k r e x g r n 0 429 r e x g r v f l v 3939 / v n 397: / k i g i { a n f l } n c i M a p u e v p^a r q n l d e p 2 n I t q l h R 0 G 0 p 2 p l² p g m c n k c l q p d e p n 2 r | g n v u l g o 2 n l x q n 0 K a f c m k h q t o c g r e x 2 n u q t q l c v = c l t e p e k k q f c m o / d e p n g f x g n v o h e l x q m u p^a n p m O k n u j a p q u f l q w c o g i 0 U l p q u

nqt^atc pgo jcvjcvqw g o x²xgn ogtv eucm Vqrf{ Hgtpe 3:83/dgp o gi lgrpv nlc^auc vgw p²rulgt x²0 ô | nkg|vgv² c rxxgrngv c dgn rg^atcf» gi {²pk ulgtvgvgo²n»uⁱ 2u jwo qt vgl⁰ I c|fci nrf²n|v o gngi rmgv v²lfu jclro qv uwi^atl o kpf gp rxx²n o gi ¶^a/ uwn ku vgo²ulvgv 2u n⁴xvrgp0 C| ¶» vqm^dn htkugp. i c|fci qp hqn|km c l»¶ ul²ngn| ul». o qpfcpkxcn|c o kpf²i x^anq|cvqu 2^{tf}fgnu0 P {gkxg 2u u¶^hwc c| 2ⁿdgu²fjgl qn| n⁴gn^am o kpv Rgv lk 2u Oku^av r t>|^alc0

PCI [Lf PQW *3954 ô 3:25+ U|cp{k r¹d^apqu0 C n⁴3⁴v xgtu P {^alcu O^huc e0 n⁴gv²d n xcn». o gn| jcuqpn² p²rkgu ¶ xgtugrv vctvcml0

I XCF f P [K L \ UGH i t>h0 3947/dgp ul^hrgvw Twfcd^ap {^ap. Dqtuf o gi {²dgp0 Qru| gtf gv eucrf d»n ul^ato c|qw u k|» j c|cl k/ uⁱÀ o ci {ct n⁴v x² rgv0 Ngi kpn¹dd I {3⁴i {3⁴k jcvqw t^a. nkp²n ulgtkpv pgo ul^hv pci {qdd n⁴v v o ci {ct cp{c0 H o xg< Gi / lcnuk p>v^ttku dvfck wc/^auc c K0 L>|ugh j c¹re w³pk pgo |gk hrdw/ f w¹u o gi vguv^hug0 Cmnqt ku lgrpv o gi g o xg *39; 2+ u tgp¹n⁴Án p²rulgt xqv o ci {ct t²ug. c pgo |gk p {gk 2u xkugrv o ci cu vrf uc u^ancf dcp c t²ik ul²r jci {qo^ap {qñ|q| tci cu nqf^au o kcw0 P²rulgt / uⁱ2^v c n⁴gvng| pgo |gf²np²n ku o gi vctvwc0 Ctcp { ¶>k cten²rgv ¶v I xcf^ap {k>n Rgv lk u¶^hw¹pcm w³p^au¹xcn ku nkg|g|k gi |km xgt/ u²dgp. *C t²ik l> I xcf^ap {k> o gpp {kg ulgtg¹0 I xcf^ap {k ul²r 2^{rgv} 2^{ix} c ncvp¹ip^an v^ddtpqm^ai ki xkvg. 2^{rgv}2^{dgp} j c¹re dcp o kpf g/ p^hppg ulgtgv. tclqi^au. t²ul²v 2u j go r¹ng²u 3⁴gl v0 98 2^{xg}u nqt^adcp jcnv o gi 0

FW QP K EU CPFT f UD *3962/3: 3: + U|gi gf gp ul^hrgv0 Cv|lc Fcm^aek^dn ul^ato c|qw cp|lc K0tg Mvcrp0 Kmq¹kv c ulgi gf k Mgi {gutgp|km i ko p^a|kwo^adcp x²i glvg. o clf o ci c ku ulgt|vgv vcp^at rgv u c pci {ulqo dcv w>dd dvfck gi {vgvo gp c o gpp {k²i / vcp vcp^atc rgv0 Vw>u. tgi²p {/. ft^ao c/ 2u x¹l^av n¶». kqfcm vpdcp c o ci {ctqu k^ap { ngl fgo 2^pgl lg0 Ngi 2^tv²ngugdd n⁴p {xg< O ci {ct r²rfcdgu²f gm 2u lgru n⁴o qpf^auqm e0 n²v n⁴gvu i { lvo 2^pg. o gn| 323: 4 n⁴o qpf^auv²u ul>n¹u ci {ct^a|cvvctvcml0

U| GP VL DK U| CD^h Nf U| N⁰ U|^hrgv 3989/dgp Qvqo^ap {/ dcp. * Dlj ct o 0< o gi jcnv 39; 7/dgp Mwhngkdp0 Fgdtegpk vgn>i wu. o clf pci {d^ap {ck vcp^at. xcn¹uc o kcw c|qpdcp L>|ugh eu¹ul^at j c¹re w³p^an¹u^v xgu|k dgrngxgtg|km c O ctkp¹xku/l²rg 3⁴ul ggun^ax²udg u 39; 6/dgp j c¹re ¶²nk0 G|v c| ¶²rgv x^athqⁱuⁱtc gp {j ¶¹gw^am ¶ { rgw M|kpe| { tcd^vtuc 39; 7 ulgrvgo dgt²dgp Mwhngkdp. cjqn 3⁴v jgv tcd¹uⁱ w³p o gi jcn0 N¹ck n⁴gv 2^pgngv nkugdd jwo q/ tqu n⁴v krgdu² r¹ugrv u gi { ft^ao^av ¶vO^av^au nk^an t>|0

EUQMPCCK XK\ \ O K f N| 0 3995/dcp Fgdtegpdp ul^hrgv O gi jcnv 3: 27/dgp w0 qv0 C ulgtgv k fcn c euk¹nd t³u m¹rcvuj| e0 n⁴gv 2^p v t²i gddgp Ái { hqi v¹m hgn o kpv c n⁴v dqt. m¹rcvuj|gt/ vgv²pgm nkg|g| 2^uv0 G| 2^{rr} qn| v²xgf²u. o kpv c jqi { Rgv lk dqtfcnk/ d>n nqtjgn|uⁱ2^{tg} n⁴gvng| vgn0 C dqtfcn c nqt f kcvqu o hlc xqn. u qn|cp n⁴v m ku ¶vcml dqtfcn. nkm c dqtv pgo ulgtgv²n0 Euq/

nyjck g xgtug 2rr qn\ rct>flc. co kn\gp Fqtqw\c e0 ì hweuc xk2|k
xgtug\gvgè ku0 C Fqtqw\^adcp c nqo qn\ gr qu\ v c ì u\gtgngò fcn\dcpe
c nqtcdgrk3ò rpi u\ gtgr kn\^vhi wt^|| c nk0

HC\ GMCU O KI f N\ 0 Fgdtegdgdp u\ Ärgvw 3988/dcp. u qw
ku jcnv o gi 3:4:/dcp0 38 2xgu nqt^adcp dg^mv nî4j wu\^atpcmc o qrfxc
v43^m j^dqtdcp nk\Äpvgvg o ci^v t2u\wgv c Tc\pc o gngvk hcp/
ek j^dqtdctk ku 2u o kpv p\wi0 h jcfpci { l3^w j\c\c0 Euqnpckpc
l> dct^v\c. gi {2pku2i Ändgp ku uqm nî43^u. u\gtgvgto2^ns> xqp^u xqn0
ì Nwfcu Ocv\k\c c p2ro gu2^m j ug ngw u c nî4ngo2^p\ ngi o ci {ctcd
nqo kmw nî4ngo2^p\{gpm gi {kn\gè ì^t>lc o2i pgo jcteqv c lqdd^i /
u^ite xcn> lqi nkgt\gu\^v2tv. fg go dgtkdd d^p^a u>»ffcn nk^pv
nî4pp\^epk c p2r vgtj2^p\è Jcv^u^pcmv vti^p 2u grxgp gndgu2^r2^p
nî4^Än gi {km lgrpv u gu\ nî4g. jqi { ì ugnk ugo ^lv jgzco gvgv qn\
vngv>t\^vcp gi {u\gt u2i gn qn\ jkj gvgvgn^Än vgo2^u\gvg. gt ngv
rpi o ci {ct p\grkdgp. o kpv 0 0 0 ì L>n o gi r^wc c\ v gnu nkcf>lc<
Mgtngv Hgtpe= xgtugu gn u\cx^adcp gr qpflc. o kn\gp l>n o wrcwm
tclv. cnkn gffki qrcuv^m jcmq^m= o2i Otek ncp^u\ ku iwc/
Ä2uki ppxvgw tclv< kn\gv o2i c jvgxgpfkm pci {cr^p^cm c rmg
ug jcmq^w< ì Dg hweu^p rgtf Än= rfgki c uqt x2ig pgo Äi { o gi { o kpv
c p>v^dcp u\ qm^ n\è *j\ dtp^a vj L^pqu Gi {gvgok gn cf^a uckd>n< Euqnpck
nî4v /dct^ v\0 H^f k 2 u H\ gnu0-

MUHCNWF\ Mf TQN\ 0 39:./dcp u\ Ärgvw V2vgp *I { t o 0<
I { t3^w vpwv 3:26/dgp ncvpc ngw0 MÄnî4f k dqn\qpi^a uck 2u uqm
p2mÄnî42^ug w^p Rvgvp vgrgr gfgw ng. cj qn *3:39+ u\gtgvgto2^ns>
gi {2pku2ig u gi { vÄpgo2^p\{gu u\^prcfk ukngt nî4gvm\^v dgp *Vc^v tqm
Oci {ctqtu^ai qp+ 3:3:/dgp o^t ppxgu ft^o c^l>. o clf 3:44/dgp
c\ Cw>tc e0 |ugdñp{x u\gtngul^v2^xgn c tqo cpv\ek o wu k^p\^p^cm
xgl2tg ngw0 X343^u ctv\ Dcl\c. Vqf { jqi|^ eucvrcn\pcmv u c\ kqf c/
ok nî4rqp v U2^rjcmq jgn\gw rcuucp Rvgvp xcn>uwn o gi 0 U2^ejgp{k
Muhcnw\ { M^tqn\ v u\go grk nk o gi kpf^l\cpf> nrc lc *Lgrpnqt+
u\gtngul v l2^pgm fg c nî4v pgm x^pftAv lc. klÄnqt k p2mÄnî42^ug
okw ngi {gpi Än u\gtxg\gv2 vÄf dcl v^o cflc o gi. o^t pgo x^mrc/
jv\c c u\2^r hrcfcqv u pci { u\gpxgf2^ugm nî4v jcn o gi 3:52/dcp0 ð
Muhcnw\ { nqo knck gtg 2u jwo qtc x^l l^v^mekdp u gi /nîv pci {qdd
gndgu2^r2^v dgp p\krcv\ kn0 G\gnl n uclpqu v2tu\ ng okw pgo
cfjcwpm pci {qdd u\go grk2^p\ v *C nî t m Eucn>f^a uqm und0 nî4ku/
o gtvgm ku+ u gl2^tv gi {km nqt^adcp j^l\gu. c j3^i {gmgn xcn> 2x f2^utg
cmqt\kdcpc cmrcn cupcmdk qp\ wvxgtu2^vnî43^i Än0

E\ WE\ QT I GTI GN\ 0 Cpf>fqp *P {k\c o 0< u\ Ä0 3:22/dcp.
o gi jcnv Rvgvp 3:88/dcp0 Dgpe2^u rcr. nîu dd vcp^t. o clf c\ cnf2/
ok npx2^nr tquc0 | rqu\ ^l> *Cwi udwtik Änî4gv Ctfk i { rfu. Dqvqf+
c o ci {ct p\grk u\>v^t^p^cm u\gtngul v lg. Rgv hki c ngi lgrngdd p2r/
fcn nî4v 0 Tcf>» e0 nî4ngo2^p\{g okw Mhnglpdgp dgd3^v4^v n0
Gi {kn\g ngi v^ldgv Äf3^3^w u ^tvcrcpn o gi jwteqiv nî4v kpnpgn0
C lcnuk nkng^p\ Rvgvp e0 xgtug Äfg jpci^p^xen u pckx nqo kmw^a xcn
o^t nqt^adcp ku c ngi p2ru\gt dd nî4ngo2^p\{g xqn0

X^T^ UOCTV\ O KI f N\ 0 Rvu\vc p\2ngp *o c M^rqp^up\2^m
u\ Ä0 3:22/dcp. o gi jcnv 3:77/dgp0 C nî4v^u\gv o kpfgp ^i^adcp tgp/
nî4Äkv cmqvq0 Mgf2^nk\i^a p^cm ic\fc\i^u^a^t>n vcpÄnqt\p^cm c

nʔ4 ʔw xgtugm o gnʔgndgp xkʔo cdd 2m 2p{gm nqrpcm fgt v c X2p
 eli a p/ u C/ go dgtgm nʔ4w l2pgm i| qtf qp j qo nqnt cē0 i Rgvwngē c o Āw
 u| a| cf wqm» j a tqo 2xw gf 2dgp a mcpf »cp o uqtqp xqm. knqrc k
 2u gi {2 d j cpi xgtugp{gnpg u| cxcnʔ n0

U GO GTG O KVN U 3:26/dgp u| Ārgvw Ncu| »eqp. \ go r r p
 xo 0 O gi j c n w i {cpqw 3: :3/dgp0 Gt u gnpg| 2nk 2t| Ārgv ʔ»0 C| ktq/
 fcmo dcp c 62/gu 2xgndgp r r gw hgn j gxgu xkʔ k xqncm I ctc{xcn
 Rgv hkg n Ctcpp{crf0 C| Cnef 2o lc 2u Mkuhxfk V tucuf i vci lc xqn0
 Gn| »tv u| cwkknw 2u j wo qtqu xgtugv Cdch Nclqu i { lʔ4w gi {dg
 5 nʔ4gdgp Dr 03: :40

I CTC[Lf PQU 3:34/dgp u| Ārgvw U| gnu| a tf qp *Vqpc o 0
 O gi j c n w 3:75/dcp Rgugp0 —hʔ i ʔ». hqn| »ktcvqm u| gtnu| v lg. gr knw
 *Eucv t+ 2u rʔck nʔ4w. tʔk kf k gi {gvo k vcp a t. ʔc| ʔpnʔp{wcmqo
 o gi hqu| qwc a nʔ uʔ »n: o clf nʔp{xv tki c| i c». vci lc c| Cnef 2/
 o Rpc m 2u Mkuhxf{/V tucuf i pcn0 Kgp uqnev 2u uqntʔ r v ʔv. hqtf ʔqvw
 fg eucm Qduku e0 tgo gng rgw j cij cvcwp. o gnʔpgm j u v. J a t {
 L pqu U| gnu| a tf qp u| go 2nʔ gup kuo gv0 I ctc{ p 2 r u| gt uʔ i 2tg
 lmg0 | . j qi { c| ctfk x a t dcp u| gpxgf o ci {ct r qtkkck hqi nʔqm
 dvgi uʔ i 2t n 2u p{qo qt Ār i a t »n 2tvgu Ārg p 2 j a p{ hntʔ | uqrl wnd »n
 83 ltv 4 ntv i { lʔ4wgm ʔau| g o gi ugi ʔv uʔ tg. ô c u| gi 2p{gp grj c n w
 nʔ4w a tx a kpc m r g f ki nʔ4 c f c n u| a u d »n nd0 32022 ltv i { n ʔau| g0
 J c f n u a i { a p. o knqt U| gpv N a u| n euf c v ʔv r v o qpf v vqmdc hng/
 uʔ i 2pgm ʔc| ctc p{ nexleuʔ x a r k n pgo u g l j g w g. j qi { pgo | g v
 u| gtgv v 2u j a nʔ v pgo U| gpv N a u| n p c m j c p g o c| Qduku p c m
 euf cvgw kgn 2 tg fo r kn0

L MCK O T 3:47/dgp u| Ārgvw Mqo a tqo dcp. 3:26/dgp
 j c n w o gi Dwf cr gup0 Knuqf kv Mqo a tqo dcp. R r a p. c lqi qv Mgeung/
 o 2vgp x 2 i g | v0 Rgugp Ā {x 2 f k x k u i a v vgw *3: 670+ u Rgv hkg n nkv
 o a t r a r c k f k n n u| a d »n kuo gtv dpu dd n e u q n v d c n g t Ā n 0 N c r q v
 ku gi {Āw u| gtnu| vgwgm 3:6: o a te0 38/a p ku gi {Āw u| gtr gngn0
 Ncdqtkrc k T » a x c n v ʔ4 v p v j a | c u r i a v c | p d p c R g v h k u o a u q m k u
 g r i ʔ n 2 m u g o k w e u c n j c o c t g r k f g i Ā w c x k u | q p { c n v d e t a v n ʔ4 v
 *3:6: + J c g n h e r u 2 i 2 d g p c | v n k t q i a u q n m j q i { u | ʔ 2 u | p u : 2 x x g n
 k f u g d d . o k p v c | ʔ ». o a u q f k m j a | c u r i a d c p c | v t q u u | c n m j q i { c
 u | ʔ 2 u | p u q m e n c h c v c r d d . o k p v c | ʔ » 0 C n ʔ4 x 2 r g o 2 p { g m r
 d a n a p { q | q w n g f x g p e 2 p g m 2 r g v v o k p f h c v n o k p f k u n q t a d c p
 o gi n g u t ʔ g w 0 U o ʔ u | Ā r g v u 2 v n j c r i n k i u | c d c f u i j c t e p 2 u D c e j /
 n q t u | c n q c a v o k p f k i c u | g t g p e u g . u k n g t 2 u f l e u u i Ā l a v l a t v c 2 r r g p
 e u m g l c n v l f l c m c u g o r f m d a p j c w c v 0 F g 2 t f g n g u . j q i { L n e k
 n p g m c n e t c v { g p i g u i g u | k p v n ʔ4 o q p f a u q x q n o k p f n v g u v d g p
 c n i o c n e u c d d c n e t c v t v c p Ā r ʔ q w c . u h k w | g v j a p { v c n ʔ4 x 2 r g /
 o 2 p { t g 0 G i { 2 d n i p v j q u | Ā g i 2 u | 2 d g p d q r f q i 2 r g v c | 2 t v 2 i j g v g w
 o g t v ʔ d d p { k g v x q n c x c n u i w n n r | g g k v ʔ p 2 t x k f i a d c p 2 n g r g 0

J wo qtc xkʔo q r w k o v u d »n v r n n u | k m f g t u v 2 l f u
 p { a l c u 2 x f 2 u t g j c l r o q u . t k n i p x g i { Ā n d g r c | g i { 2 p k l f l c m o
 2 u u | g p x g f 2 u g m g r g o g 0 M P r | g r g v k u v e t o 2 u | g v 2 p g m o g i h g n g p n q t /
 o a p { q | c < u | g t g k c v a i a u v j c m q l a u v u o k n q t g i { / g i { j w o q t q u
 c r n i c t c l | a d c p o a t e 2 n d c v n i n v ʔ d d p { k g c f j q | | a g i { / n ʔ v x q p a u v
 o g m { g n v a m c e 2 n p 2 u g r x g u | x c n u | g t u 2 i 2 d r 0 * M w n p e u Ā t h k

Mk^apfwf^u u v⁴dd crt» grdgu²ř^ug0⁺ Pci {qdd tgi²p{glp^gm gi {/ gi { c^un^ldc. xci { lgrpgv²dg c|qpdep l^on^ldd²ř^ggv ř^ggn n^lv p jwo qt²t|²ng. k^lgpn^lt ô o qpfcp^a xci { v⁴p o qpfvc ku I {w^lck R^an ô pl^leu kf^lglg gtq^lwp^lck c^un^lckv. ogtv o^auq^lmn ku n^gm h^li n^lm^lpl^lck0 G| c tgc^lř^lvc u^lgo r^lqpv c|qpdep n^lku² ki c|u^li v^lcrp. j^lku^lgp c jwo qt/ pcm c^uř^lv^lgo²u^lgv. j^lqi { u^lgtg^lck c h^lq^an^lv. v^ll^auv. u v v^lq|^av ku c h. j^lqi { ²t^lg|^lguug c| ki c|u^li q^l0 U j^lqi { L^lř^lck g^lv g^lř^ltv. c|v j^lqu^ll^a kf p^av v^lctq^lv p²ř^lu^lgt u²i^lg ki c|q^llc. ogtv g p²ř^lu^lgt u²i^lpgm ř^lgd^lk ř^lpeug^l o gugo q^lf^au^lp n^lř^ll^ah^lq^lv^lju^l c^lv^lg^lgo g f^lgt u^ljwo q^ltc x^lq^l0

RGV HK Uf P F Q T M^lum t³ř^lp u^lř^lgvw c| 3:450²x^l g^u »t^a/ l^adep. c u^lgi gu^atk j^lctev²t^lgp v p^lv g^ln 3:6; l^ař^lku 53/2^p0 N^lgi j^ap{cv^lv v^ldd²ř^lv n^lř^lv p^ln0 Eu^lq^ln^lpl^lck^an c^lpp{kc^ln x^lq^lv u^lgt^lg^lpeu²ug^ldd. j^lqi { c f^leu u²i^ld^lgp² u p²ř^lu^lgt u²i^ld^lgp ô d^lt t³ř^lck kf^lgi u c^lmn^lu^lgo |c^lx^lt^lv^lcp^lwn ô v⁴dd t²u^lg x^lq^l0 O^lkp^lf³au^lg³ř^l 2^x ^amv t^lgp^lf^lgm^lg²u²t^lg. j^lqi { x^lgt^lg^lx^lgn c x^ll^li^lkt^lq^lcm^lo ř^lgi p^lci {qdd n^lř^ll^akn^lw^lck n^lř^l4² go g^lmf^l/ l²n^l0 *3:66ô 3:6;/ki + l^lř^lv n^lř^l4²u^lg²v o^lkp^lf^lgp k^lu^lq^li^lv l^atv go d^lgt c^lpp{kt^l k^lo g^ltk j^lqi { c| g^ln d^lkd^ln c^lf^lcv^lq^ltc. c| w^ldd^lkd^l»n u^lgo g^ln^l x²p{g^lnt^lg c^lř^li x^lcp u^lř^lAm²i^l0 G^l2^ltv x^lgt^lgd^ln e^lum gi {r^atcv n^lř^l4^ln^lř^lm^l 2^lř^lgp j^lqi { l^lgm²ř^lg|²m jwo qt^apcm n^lř^lpeug^ap{^al^av^l0 k^lpn^ldd C^ltcp{ / j^lq| ř^lv ř^lgx^lř^lkd^ln c^lf^lw^lm v⁴dd u^lgo g^lř^l2^p{v. ogtv g^lgm C^ltcp{ j^atc/ j^lci {q^lw o x^lgk n^lř^l4³v l^lg^lř^lv^lgm o gi u g ř^lgx²n^lq^l|c^lv p^lř^lg^lg^ldd^lgp j^lq|^ař^lt^lg^lv c| q^lř^lcu^l» u^ao^atc^l0

RGV HK | U C T C P [N G X G N G \ | U D N O G ř^lgx²n^an^lu r^at/ l^av t^lkn^llc c x^ll^li^lkt^lq^lcm^lo d^lcp^l0 R^lgv h^lk gi {2^lpk²i²pg^lm u^lq^lnev go ř^lg/ i^lg^lv u^lgt^lg^lv^lgo²n^lu^li^lc kv j^lcv^ap{q^lq^lw o²t^lv^ln^ldg^l 2^ltx²p{g^lu^lř^l0 E^lu^lř^lc n^lř^l4^lx^lg^lv^lpu²i. |u^lg^lř^lk^lř^lku u^lř^lř^lgn^lu. l^lř^l v²hc e^luc^ln^lpg^lo o^lkp^lf^lgp ř^lgx²n^l0 F^lg c j^lev²x^lgn kf^lug^ldd C^ltcp{ ku j^lco c^lt^lqu^lcp d^lg^lř^lv^lcp^lwn d^lct^alc j^lcp^li^ldc²u o q^lf^lq^lt^adc^l c^lpp{kt^l u^lgt^lg^lck v. j^lqi { w^lř^lp^lq|c o q^lf^lq^lt^av j^lcp^li^lv^lo gi o w^lcl^l. j^lqi { k^lu²tv^lg^lj^lg^l0

l^ltf^lgo g^lup^lgm v^lcl^lw^lm ř^lř^ll^lgi {g^lpk j^lqi { 3:6; u^l2^lv n^l ř^lg^lř^lg. o k^lu^lqt R^lgv h^lk g^ln^lv²u^lt n o^lkp^lf^l c^li^lc^lu^l»dd j^lř^lř^lgm²t^ln^lř^lv^lgm C^ltcp{ c n^lř^lg^lv^lu^l x^lgt^lu^ln^ldg^l ^ař^lq^l|q^lw d^lct^alc go ř^ln^lř^lpg^lck C^l ř^lpv^lqu. P²x^lpc^lrk i^lq^lp^lf^lq^lř^lcv^lm l^lx^lgm v^lo²i l^lř^lg^lpf²x^lgm *70 x^lgt^lu^lcn^l0 Go ř^ln^lř^l n^lř^ltc *R^lgv h^lkp²pg^lm^l N^lgv^lu^lgo c^l ř^lpv^lq^l C^l j^lq^lx²f³ř^lx^lgi {g. G^li^lg^lu^l{ I^ad^lq^ltp^lcm*: O^lx^lgt^lu^lcn^l0 Go ř^ln^lř^l 2^uR^lgv h^lkg^l00

C T C P [L f P Q U 3:39/dgp u^lř^l0 Pci {u^lcm^lp^lv^lp. 3:4/dgp j^lcn^l o gi D^lw^lř^lg^lv^lgp^l0 U^lcv^lř^l x^lcn x^lgi {gu jwo qt^lu n^lř^l4^lgo²p{g^lck C| g^lř^lg/ u^lgw c^lmq^lo^ap{. C p^lci {k^lck e^lki^ap{q^lm c L^lř^l n^lř^l4^lf³ř^lg. C j^lgi^lg^l. C d^lcl^lw^l. V^lco d^lř^a u^lř^l4^lgi ř^lř^ll^l C| ř^l4^lgi r^ll^lpe²t. c| u^lkn^lř^lm crt^l» x^lgt^lg^lck F^lcn²u ř^l4^l h^lq^ll^lpv. C w^lř^l»u o c^leu^ln^llc. G^lj. l^lt²n^lř^lg{ d^lř^lu^lř^l R^lq²v^lck t^lg^lev. O^lci {ct O^lk^lck C^lm^lř^lck x^lgt^l. R^lqu^lř^lgi²p{ n^lř^l4^lř^lpv^llg. c n^lř^l4^lř^lv u^lgo g^lř^l2^p{g^lm u h^ln^lř^l c D^lq^lř^lpf K^l»n^l0 G^l w^l»ddk v⁴ř^lgf²n^ldg^l u c V^lq^lř^lck g^lu²l²d^lgp²tx²p{g^lu^lř^ln^l ř^lgi p^lgo g^lug^ldd^lgp c| c i^lx^lř^l u^lgo q^ltn^lu l^ař^lu^lck p^lř^lx. *jwo qt⁺ o g^ln^l p^lř^lx^lg^lv^l u q^ln^lř^lu^l u^lř^lkt^lg j^lcv^lř^l *D^lq^lř^lpf K^l»n^l0 30-

V Q O R C O k f N l 0 3:39/dgp u^lř^lgvw T^lko c^lu^lqo d^lcv^lq^l. 3:8:/dcp j^lcn^l o gi J^lcp^ap^l0 l^lř^lv²pg^lm h^ldd^an^lř^lo^auc^lck p{qo q^lt^a/ u^li^lqu i {g^lto g^lmn^lř^l. m^lř^l f^lgn^lgu k^ll^lř^li. o cl^lf ř^lř^lř^lkn^lř^l d^lcp h^lgn^lř^l

dgvēi gungf²ug. o gr{ o kcw go²u|vk o ci^av u p²j c c| 3pi {kmqu^ai i qpf qrc^vxen hqi rcmq| km= o kpf gl c| crrl^adcp gt u u|gtxg|gv²u l>ngf²n{ go dgtv dAumqo qtt^a vgu k0 Eucm j^a|cu²rgv dqrq*qi*. d^at gl v ku o gi u|qo qt^vqvc i {gto gnglpgm nqtck j cfr n0 i C/ 2p r n²uqo ē e0 j w o qtqu n²ngo²p{ c dqrq*qi* u^ai pem²u gr i gf vrgpu²i pgm cdd>n c xgi {gu 2t|²u²d n u|Agygw j qi { klÀ pgl²v gun²x lg w²p o kpv nrgo²tk rcr n²p{vrgp xqiv c n²ngo²p{dgp rg²v r n²udc xkppk0 U|go vcpwn^a n² v²uc u|gtkpv g r²a u dcp v²a^a u pgo xqn0

O KMU\ f VJ Mf NO f P O 3: 69/dgp u|Agygw U mcdqp^ap P>i t^af o gi {²dgp. o gi jcnv 3; 32/dgp0 l rvg m²nu gugo²p{gndgp 2rr qn{ i c|fci. o kpv dgm ndgp< ²m²p{gndgp²u go²ngndgp0 Gn dd x^ato gi {gk gum²v c|v²p Ai {x²flgr²x x²i An Alur^ai²». p xg 33c/ ²u tgi²p{²». qtu^ai i { r²uk n²r xkugn. hngu²i²v n n²p{vrgp gr^atpk p{qo qtc o kcw. fg lqdd xku qp{qm n²4² ngt²xg A²d>n qn²tj q| xgl gvk uqm o gm|²u w²p gi {km pcr>n c o^aukntc x^atcvcpwn rgu² t²u|gu²x² c| ²«k fleu u²i pgm pgi {xgp²xgu ²«k lwdkrgwo^ap o kpf gp rgi gv nk²v²uagn gij cm q|c nkt^an. pgo|gv wfqo^ap{qu²u kqf cm k v²tuc²i qm uqtc. wfqo^ap{gi {gvo. x^atquqm und0 und0 Ngi h dd ²m²/ p{gk²u go r²ngk< u|An h²4f lg. c x^ato gi {g. c nqrte r wu| v²uc ²fgu/ ep{l²w n gum²x lg pcr l^ap hqu vqvc o gi + c Vku c^atcf^auc. dqrq*qi* eucrfk²rgv² u i {gto gngk0 Oknqt lwdkrgwo^ap c hgr²lg^atc> u|gtgvgv r²vc. o gi jcvqwp c|cn dAeu²q w gn n²4²pu²i²v n< Qu|qrlcpem j c|c c|cn c wf cwn j qi { o c x²i tg r²wcm gi { dqrq*qi* go dgtv0 ô 34 pcr r en g u|cxcm w²p x^atcvcpwn o gi jcn0 Fg xcp/g uqm ²«. cmkpgm c dqrq*qi* u^ai kn{gp vrgu²i²dgp eucm 34 pcr ki ku t²u|An r gw xqpcA

O kmu^a j crrl^adcp dqt²Ar²v r²rgm vrgx r guu lo k o wutc j cln> ci i qf cmo o cn tqul ugvno gmg n u o gu²k ku c u|qo qt^a o gi qn² f^auqnev u|gtgk0 Cpp^an euqf^arvqucdd. j qi { rgi u|qo qt^add²u rgi cp/ i qn>dd ²« uckdc ku dg wf²vc xkppk c j wo qt grgo²v0 i { i rgi u|gtgv gddē nkul²pcm L^apqu²pcm j cfr n²t>n ²«v go r²ngl²u²dg *C n. c d^at^ap{nc²u c p{A0 c i {gto gm j Aug²utg u|qmc²u^a pem o quq{vrgw lrg/ pg²v u|²kk dg. c Pqu|v h²À x²tgu u|cv²l^av Mqr gtge|n² ²u Dvdgp{km o w²v^ai qu crrn^axen h u|gtgl k u pgnq>i lckdep *C| ²p j cmvcl0 0- ku hgrukmp gi {/gi { xk^ao xqp^au0 J wo qt^apcm gi {km h grgo g. j qi { ngr xgk c rctcf qzqpnev. c|qnev c| ki c u^ai qnev i o gn gm gi { u^a|cf/ fcn gn dd u|Agyvgm o gi. o kpv nrgngē *Tqvugcw0 J cv²u^apcm gi {²d gu|n²4 gk< tgpfn²x²rk u|grgo gu²i g. l>². c| ²n dgu²f gv rgi kpn²dd o gi n²4 gr²v gn cf^auc *gppgm²tf gn²dgp p²j c wf cvqucp r qpi {qrc+ o gi rgr o gugul ²ug. gtgf gk u|go r²rgo >flc. ²rgu go dgtkuo gtgv und0 J cfr n² x²dgp lrgpvgm o gi o xgk c| ²« pgi {xgp²xgu lwdkrgw/ o^atc n²u|An nkc^audcp 73 n²4gdgp *T²xck Vguw²tgm0 G n²4gyv n² d n c| ²«²rg²dgp 54 lrgpv o gi. c v²4dlv Twdk{ k O>|gu ft0 tgpfgl v ucl> cfr. cmk o kpv o xgkpgm rgi crrqucdd ku gt l²v o ci c c| ²« n²tvhno^a t²i gddgp gnu|>tv0 xglpgmhgmwv²u^atc0

*Okp gtt n c|²tv gukm kv u|>. o gtv c| qrxu>. nk Okmu^a j o xgk lwdkrgwo k nkc^au^a pem dktvni dcp xcp. o gi rgr gvx vrcu|vrlc. j qi { u|go gr^ap{glpnd n n²v gndgu²r²u *Eu0 n²l0 dqt²u R0 [qtm- j k²p{| km c| Okmu^a j /nkc^au^a dcp0 G gm c| gndgu²r²ugm wi {cpku c| ²« j cfr n² w²p c Hrcpmlp V^atuvrv^ancn nkc^aq w j^atcj ci {q w o vni m n²4 v

lgrppvgm o gi. o gtv 3;28 lcpw^t k'v n c jcf^tñki o gi lgrpp o wpr^tm nlc^fa uk lqi^a v c Hicpmkp V^atuw^rtc twj^a|x0 Eucm n^tu dd x^anq^wm o ci wnj q| c T²xck Vgux²tgm g|v c Hicpmkp/nlc^fa uv ku u cf^vm nk Àd»n c o quv o^at vgr^tgu² x^an³u| gu o xng⁰ G| c| w»ddk c| qpdcp 2^rÀi { grhqi {qw o kp^v c lwdkrgw k nlc^fa^u 2^u eucm gi {/gi { n³4gvg ner j cw» u| »tx^ap {qucp p²o gn cpkⁿx^a tkwup^a r0-

Tf MQUK XKMVQT *Ukr wuu| = u| Årgvgw 3: 82/dcp Wmnp. \ circ x^ato gi {²dgp. o gi jcnv 3;45/dcp Dwf cr gungp0 Gn dd c Pgo |gk o clf c Rguk J ¶ner. x²i Æ jcf^tñki d^av|lc. T^anq^{uk} Igp Dwf cr guk J ¶ner l^a pcm o wpr^vtuc0 Mqo qn^t v^ti {À gndgu²r²uglv 2^u tgi²p {gk T^anq^{uk} Xlnqt p²x crwv jwo qtgu| nlgk U^rwuu| lgn²u^{gn} ¶vc0 I c|/ fci u| nggo ¶». nrgo²p {g u| kpvg nltqi {j cvc^vcp c hqp^am j gn| gvgm nlc^fñ u^t dcp. o gn^tgngv tgp^fgugp ucl^av 2^m2^p{gk^rpv dgu²n gn0 Vci lc xqiv c Mlucⁿf {/ 2^u Rgv h^kV^atuc^ai pcn0 .. u| gi { l³4v o xgk j Æ| n³4gdgp. c T²xck Vgux²tgm T^v0 nlc^fa^u dcp lgrppvgm o gi 0 C n³434v u| go gr²p {gm U^rwuu| jwo qtgu| nlgke0n³4gvgnd nxcⁿn0

OWTCK Mf TQN| 0 Euc^rfk p²xgp Mq^xeu N^au|n. 3: 79/dgp Mgeungo²vgp u| Årgvgw. o gi jcnv 3; 55/dcp0 Lqi qv x²i |gw. fg j ¶ner/ ¶» rgw. co kv euc^rfk pgo p²|gw l» u| go o gn0 G²tv o kp^v ¶» pgo jcu|/ p^anc euc^rfk pgx²v0 C Rguk J ¶ner pcm 62 2^xgp^av o wpr^vtuc. 3: ;:/ v n c O^av^au Fk^m e0 2^rer^r u| gtngv |lg xqn0 Uqn^tlc xk^ao fqi qv ¶v< x[¶] l^av²nqnev u| ¶prcfk v²h^v. qr gtg^wl³4gi gv cfqo^anev. o gu²/ ngv ud0 J wu^atu|gtgrgo e0 x[¶] l^av²n^v D²eudgp 2^u Dgtr^hpdgp ku gn cf^vn0 V^ap o²i ku jwo qtgu v³4v²pgv^k gv^wm gn uqtdcp p²ru|gt x² pgx²v0 O^at c|. jqi { Okm^ay^{cn} o kp^v jwo qtk^{nc}. gi { ner dcp. gi { o cno dcp t³4j gvgw ugl^vgk lgrppv u²i²v0 O kp^v uqm o^au ¶»pnev. v ku o²ncv^{cp}wn hgr^lv^m gn0 G|v ki gp o w^{cv}i^qu nku u| go gr²p {Åpm ku d^kqp {¶lc0 O xgk U^{pi}gt 2^u Yqir^{pt}g nlc^fa^u/ dcp lgrppvgmo gi 0

MPEU KUXf P0 3: 89/dgp u| Årgvgw Hgn t³4p0 R^arck rtcg/ r^twu0 C U|gpv K^wa^p Cnc^f2^olc vci lc0 ¶»k o n³4²v²v c| Cm^qo^ap {/ dcp 2^u M^{cr}quk L²|ugh Oci {ct U|go rg e0 u| 2^rrk^{qf}cn^k hqn^t»k^{cv}dcp ngl^fvg. pqxgn^tk c| |rgv M^rgu M²pk^{nc}. M^{cv}q^{ik}mw U|go rg. \^au|/ n^{pm} e0 hqn^t»k^{cv}ndcp lgrppvgm o gi 0 O kp^vgi { j Æ| n³4gv u| 2^rrk^{qf}cn^k k o xgv ¶v g^fki. n³4v^m v³4d pci {qdd tgi²p { 6 x[¶] l^av²m u| ¶o 2^u grdgu²r²un³4gvgnd0 Vku|c. pgo gu hgr^hqi^a 2^u j cpi lgn^o|k ¶^auckv p {gr^xg i c| fci o ci {ctqu h^{tf}w^{cv}ndcp 2^u u| ¶p^{gn}dgp u| jwo qtgu gt²v v³4dgm n³434v u| go gr²p {Åpm ku ki c| qrc. o gn^tgv c U|gpv K^wa^p/ Cnc^f2^o l²p u| 2ⁿhi n²n²pv^qncu^qwhgn0

MQ\ OC CPFQT. n^xgrf^h 3: 83/dgp u| Årgvgw O^{ct}er^hdcp *Uqo qi { xo 0: o gi jcnv 3; 55/dcp Dwf cr gungp0 Vku|wk^{gn}. j ¶ner/ ¶». qtu^ai i i { r^{uk} n^rx^lgn. c O^v0 Cnc^f2^olc. Mlucⁿf {/ 2^u Rgv h^k V^atuc^ai vci lc0 Rq^{ik}nk^{ck} u| cv[¶] k^{cn} v pv hgn *M^qdq| p²x crw⁺ o gn^tngn ngn j²v n^j2^{vg} c| —h^ai/dcp o gi lgrppv xgtug^kdgp c| gngp²nk u| nggo v^hñ^auckv i Æ^p{qnc0 C i Æ^p{qⁿf» u| cv[¶]kmw o gngw c| qpdcp qw^am c o²n²t²|2^u jwo qtk^{nc} ku nk ô o kp^v u| go gr²p {Åpm o w^{cv}lc ô c u|gtg/ vgv. t²u| x²v 2^u fgt o gngi²v^atcu|dc gi {/gi { c^{cn}ñ²tc0 C nk^vp n³4i v pgm go dg^{tk} cten^r2^v ku xku|cv^hñ³4k g n³4ngo²p { . o²i r^gf^{ki} c

ngj gv nri tqnqpu gpxgugddgp0 *Oci {ct U{o rj qpkm e0 n34gd n0 T2xck Vguw2tgm0

I f TFQP[K I I \ C0 3:85/dcp u Årgvgw Ci^tfqp. Hgl2t x^t/ o gi {2dgp. 3;44/dgp jcnv o gi Gi gtdgp0 U gi 2p{ krcqueucrf i {gt/ o gng0 P gj gl gp vcpwn hIÅf i^a dcp uqm eucr^a u 2tk o kpv hrgngl/gvk u0 vcpf}» p{qo qtqi. o clf xkf^2ngp j f}ncr f}»unqf km u f}»pcm ku 2rrqn{ n7u p 2tx2p{guAn o kpv O kmu^a vj 0 J wu qpnrkpe2xgu nqt^a dcp ngl f km ppx2v go nri gvpk o kpv c I 34g/nxgrgm f}»l^a 0 J cto kpe342 xgu *3::+ o knqt C/ 2p hmw o gi lgrgp2ug w7p qtu^a i qu j f}g ngu. dgx^a cu v^a m c Rgv hk V^tucuf i dc0 G w7p p2ru lgt u2 i g hqn{vq go gmrgf km c p gj gl gp u lptngtAn Dqt/tcn o clf tgi2p{gkxgn gi {tg pci {qdd ukng/ tngv ctc0 C Mhucnwf{/V^a tucuf i pcm o clf c Oci {ct Vwf qo^a p{qu Cnef^2o k pcm nrgxngl . x2i An wu vrgvk vci lc0 Gi {km nri o gni gdd u f}k 2u nri u lgt gvgt go 2n»dd f}»pn0 ô J wo qtc. mÅf34g hcnuk cncncpcm tcll^a dcp p{krvq| kn0 O^t I 34g I^a dqt^2m o wcvu^i qu dgo wcv^u dcp ô d^t p2j c xcunqucp ô lgr7v cfvc c o ci {ct rctcu k 2u l^t^a u nk v p o gi hki {grf u2pgn0 M^u dd gi {/gi { hcnuk lgrpgv *U gi 2p{ go dgt l» »t^a lc+ grdgul^2r^2xgn xci { 2rgvnr o gi grxgp f}2/ u2xgn tgo gngn0 Tg^a kucp. rqpvcup tcll qn u c nr o 2 i ku euwrc i {3p/ j 2f u i. j cpi wcv u lgt gvg0 Hcnkw u lgo grk2p{gkpm u l2 r r 2f^a k crt»/ r nqu o x2u lgt pgn00 Xgkpgmncf »lc c Fcpvg T^0

J GTE\ GI HGTGPE0 3:85/dcp u Årgvgw Xgtugegp0 U gi gfk i lo pci kvc nqt^a dcp vcpwn o gi o ci {ctwn u p{grkn7u u2 i 2v cpp{kic hglngu k j qi { O kmu^a vj M^m^a p n7u dd nmgugp nk^m hcn i G| c J gt/ el gi o kpf gp vgtk^v ci {qpi^a} qn co kv hgr7r f}gwApm ctt»n j qi { c p{gr xgv c| cp{cvgllgn ngn dgu f}kpkê P {grkxg eucm i {cp ô mÅf34g c i U grgm u^a tp{^a pë e0 o x2dgp ô uqm u lpdgp euknqi. o kpf vrgugdd2 ngu. u f}wuc r gfk i n34p{gf. x^a cu v^a nqu 2u o 2 i ku c nri vto 2u lgt gvgudd0 Gnu vgnp^2n gu o 2ncwlc I {wck R^n nkp gm grkuo gt d f}^a rvc pgnk ku vgnp^2n v u lgt g| 0 I {qtu gi {o^a uw7p dcp o gi lgrgp o xgk o kpf p2ru lgt dd2 vgu km *Hgp 2u rpp. Owco wt. C I {wtngxleu n7p{qm c HAm Uko qp \ u w uc u d0 O kmu^a vj o gngv nri qrcuqcwdd f}»pm u g p2ru lgt u2 i c Rgv hk. Mhucnwf{/V^a tucuf i k 2u Vwf0 Cnef^2o kck vci u^i nkApvg^2v ku hcvnqp o gi u lgt k u^a o^a tc0 V34v pgvk tgi 2p{gk *Rqi^a p{qm C| 2rgv ncr wlc+ u f}po xgk vci 2f k k *Dk^a pe+ |clqu j cv^u Å dqj »|cvck *C j^a tqo vguv t+ j qi { eucm gi {/gi { o x2v go n f} uAm c uqm n34 An eucm p3xgrkm ukngt k0 ô Fgt ugdd v^ti {Å grdgul^2r/ ugnv hcvncdd nqt^a dcp f}v j wo qtc r gfk Go r ngl^2ugldgp c nri / o gni gdd0 C| gn ddk o xngv pci {qp ku kuo gtk c| qrcw». c| w»ddk d»n i {3pi 2f vrgpu2i rppg u lgo grk2p{v nk2r pl0 G| 2tv n7v ngx2udd2 kuo gtv tcll^a v o wcvlwn dg< c| gn c| Go dgt gm wcm 2u pci {wcm e0 n34gd n xcn u c| gi { xkf i j^a dqt Å gn w u lgt gr gw j un34 2u j f}j gf w x^a n n34gnf pm ctenr7v uglvk c o^a uk c Rguk J f}ncr 3;630 2xk net^a euqp{k u^a o^a dcp lgrpv o gi 0 J gte| gi Hgtgpe 34u lgu o xgk Upi gt 2u Y qrtpgt cfvc n0

J GNVCK LGP 0 3:93/dgp u Årgvgw Dwf cr gugp0 M^Av . f t^o c f}». grdgul^2n 0 C| gn Åv u l^a cf ;2/gu 2xgldgp v plm hgn 34rgvu. n34p{gf fcrckxcn o grf gm J gkpg. Owit gt 2u c hcpck ej cpuqpqm j cv^u c wv u Årgvwm fg c| f}» cmnqt gi {2plu2 i 2v ku nk hgl v n0 Ow/

nfi²trgvv vgw xqpc ^avhq>dd ²u dqp{qmwncdd o gu²mngn ku0 Fg gl
o gn²ngu0 J wo qtc gl gndgp c| crt> dgu²ni gv²ugndgp. tcl| qndcp
qn{ ²f gugg ³o rkm ul fpo ci {ct p{grkg ²u xqp}> gn cf^auc qn{ rgdtkp/
eugn. jqi { rgi lrgugdd f>»kpm n³4³av o²n³p go rfi|j gv²Am pgx²v0 O x²/
pgm i { lvo ²p{gu ncf^auc o²i jcfi²nc gn w kpfvw o gi0 ^aI gpkvu.
T²xck T¹v0 p{qo f^alc0+ C n³4³av ul go grk²p{gm i X²t glo e²u dgu²n²
i gv²uc hgtf gvtqpp{ci²e0n³4³gvkd nxcn>n0

O~ TKE \ \ UK O QPF0 U Āngv gw 3: 9;/dgp Vku| ceu²eugg. U cv
o^at o gi²dgp0 C n³4³av gndgu²rūu c| f>» pci {ukngtv ctevw gu
n³4³gv²d n c J²v M²cle^a/j k xcn>. o gn{ e²po²v gm nku gndgu²rū/
u²v n xvgw0 G| c i J²v mcle^atē xqrv c| gm p{qo fchgu²ngv rūvw
pqxgn²lc0 J²v ²xki nngnw x^atpk cppⁿ c n r r p^an o gn{pgm o wpnē/
v²tuc xqrv o fī o gi lrgnpj vgw0 O gi jcw> xcnqo^au gl c ul Ān k
qvj qp ul gi²p{u²i²t n o gn{tg n³4³pp{gu j wo qtten go rūngl km c| f>»0
C O²ck p²pk fgt ugdd gndgu²rūu. c|²tv gugw gttg x^aruul v²uwpn0 O>tcl|
\ uki o qpf p^an gi {²dn²pv tknc c j wo qtqu j cpi. o kpv n³4 w f qo^au <
²rgul go rūngv. go dgt^a dt^a| qn²uc t g^arū. rguul ko k o wut c j cln>0 Gppgm
c| k^ap{pcm Mgo ²p{ o gmgw rgi nk^an>dd n³r x lgn lg k qf cm wpnēdcp0

Xk²| DQFQT CNCF f T0 U Āngv gw 3: : 20 Cnklpe0 I lo p^a| kvo k
ki c| j cw>. c Rgv h^kV^a tuc^ai vci lc0 Vgj gw²i g uqnqf cn^a< wf>»u xcpw^a/
o^ap{f>». j c| chcu n³4³av. o wrcw> gndgu²n. j wo qtgu n f>» ud0
Kgp p²rul gt gm xqncm c rrgungk p>v²tkvu Ācdd rguk wcl^auck e0
rct>f k lū M³4 rgo ²p{Āpm gi {km j wo qtten ²u ul c v²ā xcn ggi {gu tcl^av
o wvc lc dgo

EUCVI ~ Mf NO f P. ul Āngv gw 3: : 3/dgp Dw^acr guggp0 C O0
Vw²0 Cnef²o lc. Mūh^awf {/ ²u Rgv h^kV^a tuc^ai vci lc0 C| VII K m
tgp f gu o wpnē²tuc0 Ukn²gndgp i c| fci tgi²p{ ²u f^ao c f>»0 O wpnū/
u^ai^av c Rgv h^kV^a tuc^ai 3; 4;/dgp c L>nck pci {f f lcn vāpv gw nk0
Tgi²p{glv v²dd p{gntg rgh²tf f qv²n0 I c| fci rigo ²p{. vto²ngp{.
ul gngo gu f>»> r tqdr²o^ak c f²tk ²u p xku| qp{c. gi {o^au cn x^aqvw m³4/
f grō g. c ul gtgrō ud0 O xglpgm i { lvo ²p{gu ncf^auck xcnro kpv
gi {gu o xgk Ukp i gt ²u Y qirpgt²n lrgnpv gm o gi0 i K c| u^ai ul qn^anc²v uē
e0 n³4 rgo ²p{Āpm Xcf^au/ u^a n o^ap/ e0 xcunqu n³4³gv²d n xcn>. o gn{pgm
xk^ao v²4²pv gvkv J kpe| I {wrc kmul v^anc0 G n³4 p{xpgm j qn o gi/
j cw>. j qn xk^ao v²4²pv gvkv o²n³p dklpeugrkm rg c pgo xcf^au/
qixcu> hki {grō ²v ku< ²tf gnhgu f v o gu²k x^anq| cvqucm c| f>» o ci cvt/
v²uc. mw{ctcl| ck ud0 hgn p gp v²ti {kci qucm u gl²tv rē^auc j kg/
ruggp u cpp^an²tf gngugddgp j cv0

MQU VQNf P| K FG U 0 U Āngv gw 3: : 7/dgp U cdcf n³p. o gi/
j cnv 3; 58/dcp Dw^acr guggp0 lrgu n³4³av. gm tēpi Ā o hqt f f>». p{grk/
²u u f²o x²ul. tgi²p{ ²u pqxgm f>» u o kpv rquj wo wu o xgk ki c| qn/
v²m gi {km rgi nk^an>dd guul²/ f>»pn0 Uqnqf cn^a ²u pci {ct^ap{ Ā o wpnū/
u^ai^av ^awgnkxg Āi { rūvw j qi { xgtudgp. rt>»^adcp. xcpw^a p{dcp
gi {ct^apv o kpf gp o^au gt²p{g h³4³av gi {²pk²i²pgm o²i ku rgi kpn²dd
wtcmqf> xqp^auc< c h²to c ^aj f i cvqu wul vngv0 D^ato kv fī. rēj gv c v²ti {
²u i qpf qv lrgnp²v mgn²pgdd ²u j crk^ap{cdd< c h²to c tci {qi0 O qp/
f cpkcn>lc c| qpdcp pgo lrgnp²v mgn²pg< c| ³4³o o Ān. c| ²rgv gm
c rki xcp ²tv gm g. c| go dgt i qppu0 Mqu v n³p{ k eum gi {/gi { xkm/
c|

p^a u^a v r^l d^c c d^r f qⁱ u^a i f^l p² p^g m v^g i^a v r^g u^l k^o k^u v. o k^p v c Z^K Z⁰ u^l. »v c n^g i v^l d^d n^k x^a n[»] i q^p f q^m u^f »² u n^l 4^v 0 F^g d^g p^p A^g n^g v o q^u v p^g o c t^g o g^m n^l 4^v ² u d^q t A^r v » f^l »² t^f g^m n^g j c p^g o c j w o q^t k^u c 0 E^u g^p f A^r g h^q i² n^u p { r^g m^l p^g m j c pⁱ u l g^t p f c^m c^o. o gⁿ { d^g p f g^t u j c pⁱ q^m k^u o gⁱ u^l » r^c p^c m A X^g i { A^m gⁿ n^g i p^c i { u l g^t d^d p q^x g^m u n^l 4^v v^c c V^g pⁱ g^t u l g^o / g^v ² u u^q m u^l 4^v v t^c i k^m u t^c l | n^l 4^v 3⁴ v t^a v^c i^r p^c m gⁱ { r^a t u l g^o g^m k² p { g^l pⁿ j l j c u^q n[»] j c pⁱ w^r v A^l n^u t^g o g^m t^g 0 C V^g pⁱ g^t u l g^o e⁰ n^l 4^v v o k^p v M^q u l v^q / r^l p { k F^g l u n^g i v^l d^d o wⁿ l c c T² x^c k V^g u^x 2^t g^m f^l q^f 0 k^p 0 n^k c^a u^r / d^c p l^g r^g p^v o gⁱ 0

J C T U f P [K \ U Q N V. u A^g v g w 3 : : 9 / d g p M^q t q o r^a p 0 Gⁱ { k^g c n^l 4^v 4^f 3⁴ p k^u n^g i k^u o t^g v d^d f^l » k^p m^c n⁰ C t^g i² p { g² r^g v t^c l | qⁿ p^c m p^a n^u p^m n^g i p^c i { q^d d o g^u v t^g 0 R^g v l k O c f^a e j . N^l u l v ² r^g v t^c l | c^l p^c m v^g u l v^g v u u^l 2^r k^q f c^m k u o k^p f g^v h^k uⁿ i l e k p^g i² n^g u² i v n h^g n^l | c d^c f w^v o gⁱ f^a u^r x^c n c l q^r k^c u[»] m gⁱ 2^u l v^l o gⁱ 2^v p { g^t v g o gⁱ c l k^q f c^m k n^l 4^v k o x² u l g^k ² u | g^p g^k o x^g n^u 2ⁱ u l^a o^a t^c. o x^g k^x gⁿ x^c n[»] u^r i c n p^g o | g^v p^x gⁿ o wⁿ l v x² i | g^w 0 G r^l u l[»] rⁱ p^g o p^c i { f^t c f u^r i c n n^l u l A^r v o x^g m j^a v g^t 2^d g^p t^g p^f n^l k Aⁿ u l² r^g uⁿ 4^l m w^c v / o wⁿ e t^g l v | k^m o gⁿ { o k^p f g^p c f c v^q v h^q t^a u^v u l^a o d^c x^g u l . u v d^l f^a r⁰ J w o q^t 2^t | ² n^g. k^p x^g p^e k[»] l c ² u v e j p^k n^e k n^l u l² i g p^g o e^u c m O kⁿ u^a j gⁱ { / n^l v o x² p^g m j c v^l u^q u l f^l p^r c f k h^r f qⁿ i q^l a^r d^c p p { k^r v^u q | k^m j c p^g o t^g i² p { g^k d^g p ² u g^r i d^g u l² r^g u^g l d^g p . c l c f q^o a^m o gⁱ d^g e u A^r u^r d^g p * V[»] v j D² r^c C^p gⁿ f q^e n^k p^e u² v gⁱ { 3⁴ u l g^x q^p v q^r e u[»] d^d n^k c^a u l^a o^a t^c f qⁿ i q^l v^c e^a v^u c R^g u^k J f^l r^c r u^q m c^r t[»] e k^m i² d^g p k^u f g n^l 4^v 3⁴ u^g p L[»] n^g f x n^l 4^v { x^g k d^g p . o gⁿ { g^m l n c n^l 4^v 3⁴ v u l g^o g^m k² p { gⁿ g^v x^g w Aⁿ 0 U^q n^u r^f c n^l 4^v i^a v d^k q^p { f^l c . j qⁱ { u l c d^c f k^l g^l 2^d g^p t^a 2^t gⁱ { / gⁱ { h^g n^l v p g^p u l² r^c n^e v p o h^q t^f f^l u^r t^c k^u * J q^t c v^l s u^d » n[»] : u v o k^p v c O 0 V^w f 0 Cⁿ e f² o l c P { g^r k o x^g n D^k q^w u^r i^a p^c m v^c i l c p { g^r k A^p m Aⁱ { 2^v M^q u l / v^q i^r p { k F^g l u j c^r i^r e[»] v^c u l qⁿ i^a r^c . J gⁱ g^f u N[»] t³ p v o gⁿ g^v c n^g i p^c i { q^d d d^w i cⁿ q^o o c n[»] ² u j q^l | ^a 2^t v^l u^g r⁰ U g^o g^m k² p { g^l pⁿ g^v v^c v^c m c l[»] L[»] n^g f x M^l 4^v { x^g U^k p i g^t ² u Y q^r i^r p^g t n^k c^a u^r d^c p l^g r^g p^v o gⁱ 0

M C T R P V J [H T K [G U O U A^g v g w 3 : : / d c p D w f c r g u g p . o g i / j c n v 3 ; 5 / d c p U k[»] h^q n^u p 0 o f^l / f^l v^q m i k e 0 n^l 4^v 2^v x^g n v p v h^g n u c l gⁱ 2^u q^t u l^a i q^v o gⁱ n^e c i v^c e w x^g n⁰ Qⁿ l uⁿ g^t g x^q n^l n^l 4^v { x² p^g m j qⁱ c l c l f^l » k v^t | n^r r^g n^g v d x^l g^w n^k c^a u d^c p k^u n^l 4^v t^g d^q e^r v^q v^c u o^a u f^l » n^e v k^u j c u^q n[»] n^e t^k n^e v^a a^m f^a u^r t^c 3⁴ u l v^l 3⁴ v 0 G l g^m v^g t^o 2^u l g^v g^u p o g^u l g g^m c^t e f v^c m M^e t^k p^v j { r^a t^c v^c p u l gⁿ g^o g^u 2ⁱ g[»] ² u v^q t | f^l » t^g o g^m i² u g o 3⁴ 3⁴ v 0 F g o c i c M^e t^k p^v j { u g o ² t^v g w[»] k g^m p^c i { uⁿ g^t 2^v c f^l / r^l w^o / v^q m i k e 0 j c u^q n[»] n^l 4^v { x^g o g^u l g g^u g^v c l gⁿ v r⁰ V^q t | n^r r^g k o k^p v M^q u l / v^q i^r p { k v^c i^r n^e c p o q^p f v . w^r e l f q^p n^r r^g p d^l f^a r^e v^q n⁰ * P² j^a p { u l w d / l^g m f^k d^l f^a r^e v x^l u l q^p v qⁿ gⁱ { qⁿ f c n^l j qⁱ { v^q t | n^r r^g p^g m v p k^m h^g n o v^g j g^l A^m j q^l | a⁰ M^e t^k p^v j { o x² u l g^v c d^d c p e u A^e u^q u^q f k^m n^k j qⁱ { t^g p^f n^l k Aⁿ ² r^g u l g^o g x^c p c o q^f q^t d^c p p { k^r v^u q | » o q^f q^t q^u i² i q^m * c o q^f q^t i { eⁿ t^c p x^l u l c^v 2^t l gⁱ { g^k o gⁱ i^r v^l u^r t^c 0 C v^q t | f^l u^p e^m gⁱ c o x² u l g^v p^g o ² r^r g^p A l k^q f c^m wⁿ d^c p 0 O kⁿ u^a j c l → \ t^k p { k^l u l / d^c p r⁰ c n^r r^l x^l uⁿ j^a | u l[»] p^q n^e k^v u l k^v 2^p o w^r v^c w[»] u^l f^l x^u w^l p l c^v qⁿ i d^c p l^g r^g o g^l v^g = f g M^e t^k p^v j { o x² u l g^v o² i k^u o^a u^c v^l gⁱ g^u p^g t^g f g^l k⁰

M^e t^k p^v j { o² n^l p x^q n^v c n^g i p² r^u l g^t d^d v^q t | n^r r^g t^c l | qⁿ » k^q f cⁿ / o wⁿ d^c p 0 C^r r^l p^l d^c p c l q^p d^c p d^r f qⁱ v^c r^p f^l » n^g i g^v g^w o g^t v c p^e r k j w o q^t u l n^l 4^v u t^q d^q l c o l^e w p^g o c^t e f v k^l g^l g n^l k^l g l p k c l v . c o l^g p^m o gⁱ v^g u^g f^l u^g c^r e^m c^r p x^a i { n^l p v n^e x^c t i q^w r^g m^l d^g p . C w^r u^q n^e v

VCO f UK f TQP0 3:;9/dgp ul Ārgvgw Hctncurcni p *Wfxtcj gñ
 x^a to gi {g0- J wo qtqu ngf²nġ . nġ⁴w k ul²ru²i gndgp i c| fci p{gñ
 v ui {³ngtgu ul²ngñ(ħġ»0 Gngp^vvdgp c| cñ²ġf k go dgtgn o q| i²nqñp{.
²m²p{gmtg x^ai {» ul gngo . o c i c ku l^atv nkp v Co gtnġ dcp. o kp v
 ngf xgu j ug f dgn xci { j qi { c| w»ddk c|²tv l^atv nkp v o gtv i c| f^alc
 p{qo^ap ul gtv ġ cr t ħcpkġ0 C| v lgrgpv k gl . j qi { gt ugp ul wdlgm ħk
 ħġ» u eucxctqu² ul l^at^auc gngp²tg ku ul kpvg² u vto² ul gvgu0 C Vqto c|
 Egekg/ ul gtnġ vgv Pcrngv dgp v pv hgn gn ul³ġ N²ignkpf wġ u e0
 pqxgmcn²ġg^vpgm wi {cpkñgp e ħo gñdgu² r²u²xgn o gn dgp o x²ul k
 gt xgn tcl| qñc gi { qtqu ħq i u^aid»n j c| c^vtv dñgñxkuc gu| o²mv n
^avj cqw ul²ngñ ngmk^a vcrncwġ u^a0 Cddec c| ħf dgp c| gtf²nġ k ħq/
 fcm cv u n^aġ²p³ġgp c ul²ngñ p{gñl^at^au o²i p²ruġt ul ħgp k ngngw
 kvj qp0 Qñcuq w u^ancñ p qucp gñku gtv j ħp xgu ħġ» ngw c| »c Vco^auk
 f tqp c| f dgn^atkñ i c. VĀpf³ġm lgtqo qu. U Ān ħ²ġf go und0 o xgk
 t²x²p0 Dqñ qi ħġ». nk gi {gvgp pqxgn l^adc dgp wñlc xlpk gi² ul
 ħcl^vlc² ul l^at^au^v u gi {gvgp o x²dg. *o pv r r0 U Ān ħ²ġf go e0
 nġp{x²dg+ gi² ul ħclc² u c o c i c² ng^vpgm 44² xgu ul gpxgf²ugk o²i/
 r gñ Āi { . j qi { c| qñcu» nġp{gl|gp ku. o quñ q i lq p ku tclvc0 C
 nġ⁴ġw ul go gñ²p{gm C/ ²pgnu o c f^at e0 nġp{x²d n xcñ»0 O xgkpgm
 i { lgo²p{gu nġc^auc c T²xck Vguw²tgm ħqf0 ħp^vġv T0p^an lg/
 ngpv o gi 0

XCUI CT[I f DQT0 3:;9/dgp ul Ārgvgw Dwfcrgungp0 ħġ»² u
 ħguv o x²ul0 J²v² xk i vctw| nqf qw Rctkudcp u gi {/n²v tgi²p{g c
 ħcpekqtul^a i k² m²p{gm xkuġ j cpi lc0 Gi { ħf gli ħpi c q| qw ħġ»
 ngi {gp/g. xci { ħguv . x²i Ān ku nġ^avt^ap{Ā o x²ul k nġr gu²i g nġ⁴ Ān c|
 w»ddk o kp v nġp{xgkpgm kmwġ v^aqtc^a m ħqvc c| gn ddk ul qñ^arc/
 v²dc. ħġ»k vġ gw²i g o^at gnu tgi²p{²dgp ħgn p²uv ngngw0 *O qrv k
 3; 56+0 Gw n ngf xg o kp f gp² xdep lgrgpv o gi gi { . p²j c nġ v tgi²p{g.
 . Dr guv. 3; 570 Eucm vg. Dr guv. 3; 580 Xki /^a/. j c l²p c p . 3; 580
 Mgvgp Rctku gngp. 3; 590 und0 und0 O qrv k e0 tgpñ ħġ^an o wrcw»² u
 n²ul »nci nġp{ qñcuo^a p{pcm kp w» nġp{xg nqo qñ² u o²nġ
 o qpf cpkxcñ» l^axcn ngr o gi 0 Gi { mġul ħtg nce²t² u nġ j c² ngw» f qv
 ħqñ v». xcñ» l^a dcp c| qp dcp wul v. mġ f gn gu² ngv ng^a p{ v ħ wu
 cr qj gq| kuc0 G| v c tgi²p{v 38 p{gñtg ħqtf ħq^aw m ng u ul²r. c ul g|
^ancn kmwġ v^anv nġc^auqñdcp lgrgpv o gi 0 O kp f gddgp. o kp f v²ġdk
 o xgk dgp c| go dgtkuo gtv² u² ngv o gi ħi { gn²ugm j quġ Ā uqtc ô nġx²/
 vngv o x²ul gvgn ô nreci v»³ġrgvndg dwtñqñ| kn0 O gvgtg c
 xġ^ao v² ħ^ancm² ngngp gm ħq^am lgrgpvgm tcl|^a pcm ngf xgñk c
 f ġ nqu e ħp{gngv n^ar²u^a qnev n^arcp f qnev² u uqñ| qt n^auġ ħqñc c| q/
 nev nġngv ngi lqddcp ul gtv< c p ngv0 Ĳ r tguġ k p kuc< nġ| gv^atuw/
 r^auqm dgp{qo^auqm t³ġ ng x^anq|^a uckp m ħi gp² dgt² u j ħp{ nġ²ul g0
 Euwrc ul kpvgu²i. ngr ng gvgu²i. ³pkuo gtv² u xcñqo^a u0 C o ck pgo /
 | gf²m ngi lgrgudd j wo qtku^alc0 ô O Āxgk c Pqxc ħqf0 ħp^vġv nġ
 c f^au^a dcp lgrppgmo gi 0

FCNNQU Uf PFQT0 U Ārgvgw I { tuġ gpv^a tvqpdcp 3; 23/
 dgp0 ħġ»k o nġ⁴ġ²u^v Vqto c| Egekg Pcrngv e0 ħqñ»k²v/
 dcp ngf vg. c j qñ gi {ul gttg ħgn pv c p²r²ngv xqp|» crncġp m
 ul gtvvgñlgu² u j wo qtqu tcl|^a xcñ0 ù V \ R²vgt cuġ qp{v ul g| ġ è
 e0 gñdgu² r²ug ku gl gm nġ⁴ Ān xcñ»0 C| ħġ» o xgk c Fcpvg² u T²xck

*Fcpvg+: O gi gk o kcnenwo *T²xck Vguw0+ ud0 Go iflgw u l go gr²/
p{Äpm tgo gm kf km ngf xgu²i²xgn o ci {ct ¶²xgn nřv cren²pcm
o x²u|k tcl^axcn²u²fgu j wo qt^axcn nři lqdd grlgul²r²ugkpm nř⁴¼v
hji nrj cvj gn²g0

! NENCROM G gm uqt^av Newne I wu|v^x Ejctkctk/lc p{kklc
o gi 0 C nř⁴gvngl p²gxgl gvgudd²r²erqrnc L>nck O>t Pci{ v²nř⁴ e0
nřrgur²lc 3:78 p²q²xgo dgtv n 3:7: hgdw²tli 0 Hqn{vc²uc xqiv c Meneu
O^atvq² Cthwo c. o gn{p²gm gi {gv²pgi { u^ao c lgrpv o gi 3:7: o^alw
u²dcp0 Gppgm hqn{vc²uc c| @w²nř⁴0 3::2/w²n nřl f xg U cd> Gpftg
xgwg^av c u|gtngul v²u²0 ô V>vj M²m^ap² r²er²lc< c Dqrpf Okne.
3:82/dcp crr ¶kw²0 3:84/dgp c nřvqpk v²4x²p{u²m dgk²qwc. V>vj
M²m^ap²v nřvj >pck hji u²itc. Go lej I wu|v^x nřcf>v gi { j >prtc² u
r²p|dApv²ug *422 h²v0 ¶²ng0 M²u dd V>vj M²m^ap² kuo²v² w²xgwg
c u|gtngul v²u² *3:85ô 3:96+: o clf Fq²p Rgft *Det>w Nclqu+ u|gt/
ngul v²ugwg gi {²xli 0 C Dqrpf Okne w>flc c Dqrpf K>w>w nřw. o gn²
c Dqtul go Lcpm>xcnul go dgp c| gn²p|²m²r²er²lc xqn0

C Dqtul/go Lcpm>v 3:8:/dcp kpf ¶kw²0 c gi Ci ck Cfqrh u Euleugtk
Dqtu p²xgp u|gtngul v²ugw0 *V^ate^akv Rqt/> p²xgp ¶v²0 Fg^anř^atvk
rdgt^aru u|gn²o² r²er² xqiv pci { u|qn^a r²vqnev v²w c nřto^ap{p²cm u
h nřpv c f i ck>n vgtgo v²w c nřnqmen *O qnřp{ Dgtek Dwnqxc{
Cdu|k Vqm^au F^ap²gn ud0+ u rqrkck u|cv² kcn²u² r²egkxgn nřw p²r/
u|gt x² c v²ddk² r²er² tqx^au²tc0 f nřpf> c nřnclcp²m o kp²v rř0 Mczgn
j v²gt V>dř²u ĩrtg²ej r w i kē j^a|k² dgu²f²u² Uglkhpugkgt Ucnw qp
v p²f²ugk. xle|o^apfk Mergp²v²u|nř Xle|k^arf. u| >h²cxleco qf^a/
uck. Tgd Opcej go E|k²u|g²u|d²g²u|t u²¼p{^a v²u| >f^auck0 Rant>e|
f^ao xcu²ck nřw² p^alcunq^auck. Xli {^a> Ncek r²xg²gk. Twec/
j^a|k Vclci qu Kř²u j c|ch²ku r²qj^atnř²u|³p²v²ugk o gm|v²m o gtv gi {
t²u|Änp²m o² i c| q²rc²uc ku p²g²| c o ck q²rcu² u^ao^atc. o^au²t²u²v
e²n^auckm x²pcv²u|^auckm o c o^at nři v²dd g²ug²d²p²v²g²v²g²pn0
*N0 dgxgl gv uqtc²pnv0+ C| c|qp²dcp d²k²q²{qu j²q²{ c Dqtul/go
Lcpm>. nř²¼p²ugp o ¶ Ci ck u|gtngul v²ugw *u|Ärgv² 3:58/dcp L²pqu/
j²cm^ap. D²eu/Dqft²q² x²to gi {²dgp. o gi j²civ 3:38/dcp Dw²cr g²ugp+
c nři u|¶pxqpc²ucdd² r²er² xqn0 C nřnck cmqt² n²gm u gl²tv xqiv pci {
j²cv²uc0 Gi { g²ug²d²p c|qp²dcp u|cv²lc eu²¼v²nř²u| o p²q²w< Dwnqxc{
Cdu²g²peku ĩ ulq²q²eē Ät c nřn^ax²ř0 f i ck c nřj²c² r²gv. nřtv^au. g²hcl|qw
lq^au|k²cf²n²qv c nřv² p²gxgu²i²gu² v²ppk xgn. f g c| cmqt² ¶ nřu
*dqf²q² u^a|cf²x²i k Oci {ctqtul^ai#- u|gtg²v²go²n²pcm vřf²nc c|
c nřn²qv w²p²q²v² u c| kl²Ä^ai nř²pp{gm dd t²u|²p²gm gu|o²p{g nřw0
J q²{ gi {²dnř²pv o k²g²gn nřn i^atf²c uqtcn²u|qw hgn f i ck Cfqrh o gn².
d²k²q²{¶lc c|² r²er² lwdk²t²ku lř²p{ nřrg0

M RGM< C Ejctk^atk e²b nřl^apcm hgn nřrg0 C Dqtul/go
Lcpm> t²g²f²nřk²Ärk Äppgrk o gn²mgv²p²gm gi { r^at c nřn²lc *Dqtul/go
Lcpm> v²4v²pgv0 3::90²xhqn{co. 32260 u^ao^aj²q| cfqw o gn²mgv0+
W{ cp²gdd nc u^ao d>n²tf²ng²u nřrgm<

30 C M^ax² hqt^au^a c| gn² pgo|g²f²m² O^atnwu Okm>u. V>vj M²nř
o^ap. T^an²u²qk Igp. f i ck Cfqrh U|k²i{k Fglu. Vqřk K²w^ap.
O^atnwu K²w^ap. d0 M²cu K²qt. Cud>vj L²pqu. D²tg²km f tr^af. Mgeu/
ngo²vj { Cvt²n F>e|{ Nclqu J g²xguk Nclqu. M²ku M²tqn² u c r²lp/
e²t Hgtf²kp^apf cten²r²gk²gr0

40 C| Gw>rc hAm?lg0 *O^a uqf km pgo |gf²n0- C n?r gp ul gtgr gn/ pgnk Ft0 Uej 3pdgti Hgtpe *Dwnqxc{+ ft0 D^aeune{ Cndgtv *Vctlci qu Kufu+. U²ngn{ Hgtpe *Ugkthepuglpgt U0+. M^atuck Cndgtv *VqWl^auu F^ap lgn+: Mq|oc Cpfqt *Ncpqu+: f i ck Cfqrh *Euleugtk Dqtu+: Co dtwu \ qn^ap *p^atk ul tngul v +0 C rrr gnu nqtgtmqtc Mkuu L>|ugh c n?4v xqn0

CFQO f MD Cf qo ci { lvo²p{gkpgv M>p{k L^apqu ut^a|uc/ o gungtpgm 39: 4/dgp Dwf^ap o gi lrgpv i C o kpf gnuqt pxxgv Fgo q/ etksu. cxi{ qnuu nnggo²p{ hwtuc V34v²pgvne^e e^op n?4p{xg p{klc o gi. o gn{gv i c d^apcv l>nev hrglvgpk n^lx^ap> l^ao dqtqm ngf xgn²tv c ul qti cm cu vqn^a2u pci { l>cnctcv^ae ul gt| i ul gf gi gvgv³uu gE0

C M>p{kxcn gi { 2xk²gf dgp o gi lrgp o^aukm cpgnfqc/i { lvg/ o²p{ c ul²ngn{ Cpf^af U^owgr. n?4pgm o wpr^lc c n?4gvg^l e^op gmn²n r^lvq pcr xk^li qvc i Gr²u²u o wcv^ai qu t³klf Cpgnf q^vn0 Ogn{gngv ko kppp co qppp x^anqi cwc gi {dg/i { l?4v²u o ci {ct p{gkpg n^lcfqw Cpf^af U^owgr D²udgp P {qo cvcvqvw 39: ; 0 39; 2/f km Gul vpf dgpE

O kpf c n?4v i { lv pgm²ngtcl^av u o wpr^lkm o²ncv^auv I {34i { Nclqu gi {gvo k vpa^t ^lvc o gi. cnk c| cpgnf q^vm hqt^auc kpcm p^anwpm rgi n^lx^an dd mwcwlc0 *N0 Xkl i l^at> cpgnf q^vn0 3; 630 Drguv Mkt0 O0Gi {gvo kP {qo f c0

U go gr²p{gkpm n?4 An c t²i kddngv Vt>eu^ap{k \ qn^ap xqv ul ^lxgu tgpf gm^l2u²Apntg dqu^avpc c M>p{k Cpf^af. I {3/0 d²t i { l/ vgo²p{gkl n^lx^anqi cvqwlqdd cpgnf q^vnl>0

P| RFCNQM | U P| ROGU MD C p²r fcn ul> lrgpv²ug c o Av ul^a|cf >>c pci {qp o gi x^anq|qw0 C tqo cpvkuu nqt dcp dlk qp{qu fcnv^luv lrgpv²gw o tgpf gup p²r kgu hqto^adcp o gi ^lv ul tgrm k v^t/ i {Av o o gn{pgm wrlf qn²rrgpk o qpf cpxcn^lv rgi v²ddu³4 c v^ti {w n h²i gvwp. cjjq| eucm hqto^arkcp nre uqnf> vto²ul gv k n^r xgl gvg dg0 C jcp i uAn{ c hqto^ap xqnv pgo r gfk c ul gt| p= c|²tv ^lij cvqw E|we|qt. Rgv hk Ctcp{ u c n?4gvg^l pgo |gf²m ku Ai {/ pxxg|gw i p²r fcnv^e0 Oc c p²r fcn o gi jcv^tq|^au^adcp gn ul³4 ku c nqngm^lx ul gt| v. c nqngm^lx fcmo qv go grkm n^l0 C p²r fcn ul³4g/ i²v eucm fcmo^axcn gi {Av²v²ngrk²u jqi { xcro kv p²r fcnv^l vnkpv²g c o ck w^lqo^ap{. cjjq| c ul³4gi pgm²u fcmo pcm gi {hqt/ o^ap p²r kgtgf gvg ul Am²i gu0

C n?4 3/4v p²ro gu²m muqpek Ogt²p{k N^aul>. c ul²ngn{ fcrqm²u o gu²m Mk^lc i { lvo²p{²d n xc^ln0 C o ci {ctqtu^aik p²r fcnv^l uclpqu vgejpk^lek qnqnd>n c| wqn> r krcpvc dcp nko ctef vcn0 G|v c j^lp{v gi { gvg^lgu d x^lgw n^lcf^au r>>vqpk hqi lc0 C Vcr^lnu o gu²m o gi hgl²ug< U²n0 o C|c|< Oqpf lc ul tgv ul tgv l²pgm jqi { x^a/ tcnq|²m o ^l dg³4²v^lfk m u c| 34gi gm rghm^lu pgm u c v| hgr^lngf c jco v cn^l0 o Jcto cv0 o Gu eugrr0 o K>vqm0 o Ugo gn0 o Nqr>/ v²n0 o Fk0 o Ow^luk^l0 o C| cuu qp{qm jquu A ul qnp^la lc0 o Jctcpi 0o Rk^l>n^l0 o Eugdth^l0o Vgi²phl²u0 o ^la u0o VAt>0

