

? U`hY': Ø» Y'cXYf'J YfhfU[gVfi WX 3''9]b 6`]W_'Ui Z'X]Y'; U`UI m!6]h; c!G]hi Uh]cb

FY[i `ÀfY'5bk U`hg_Ubn`Y]Yb'g]bX'XYa '_Aa dZYf]gW\Yb 6]h; c!JYfhfYhYf'Ei]bb'9a UbiY'ž'A]hVY[fØbXYf'XYf $A/Ua d/_{$'}, /5!6YfUhi b[qZ]fa Užb]Wkh[Yk UWkqYbžqU[hYf]$ 6fUbWXYbVYcVUWXhYf'gU[Yb'jcfUigž'XUgg'X]Y'?ØbX][ib[kY[Yb'XYg'GhfY]hq'ia 'X]Y'9]bfY]WXib['jcb *J\fYgUVgW\`\ØggYb`k\U\fgW\Y]b`]W\`a\]hY]bYa\'J\Yf[\`Y]W\ YbXYb'k]fX'BUWXXYa; U`UI m'8][]hU`5bZUb['X]YgYf'K cWXY $VY_Ubbh'[Y[YVYb'\setminus UhhYž'XUgg'Yg'Y]bY'JYfY]bVUfib['nif$ VYfbU\a Y'XYg'?fmdhc!JYfkU\fib[qibhYfbY\a Ybg'6]h; c $[Y_\emptyset bX][h'\setminus UhhY \check{z}'qU[hYb'6fUbWX YbVYcVUWX hYf\check{z}'XUqq'VY]XY$ I bhYfbY\a Yb k U\fgW\Y]b`]W\ j Yfgi W\Yb k YfXYbžY]bYb WW. Uch]gWXYb 'FYWX hqqhfY]h'ni 'j Yfa Y]XYb "'8]Y '? fmd hc! < UbXY`qVUb_'; U`UI m'[UV'Ua 'A cbhU['VY_Ubbhž'XUqq'q]Y' i cb]\fYf'JYfY]bVUfi b['ni a '?Ui Z'j cb'6]h; c'ni f \emptyset W_hf]hh'i bX VY\Ui dhYhž'XUq'I bhYfbY\a Yb'\UVY'Yq'j YfqÀi a hž'V]q'ni a '%" \rightarrow `]Y]bYb [Ydf \emptyset ZhYb \rightarrow J\fYgUVgW\`i gg * &\$&% \nearrow Ua d \wedge Y *]d/

- FY[i `ÀfY 5bk U`hg_Ubn`Y]Yb 'g]bX 'XYa `_Àa dZYf]gWXYb
 6]h, c!J YfhfYhYf Ei]bb '9a Ubi Y`ž'A]hVY[fØbXYf 'XYf 'A / 5!
 6YfUhi b[gZ]fa Už'b]WXh [Yk UWXgYbž'gU[h'Yf
- 6fUbWXYbVYcVUWXhYf'gU[Yb'jcfUigž'XUgg'X]Y'?ØbX][ib[kY[Yb'XYg'GhfY]hg'ia'X]Y'9]bfY]WXib['jcb
 \U\fYgUVgWX`ØggYb'kU\fgWXY]b`]WX'a]h'Y]bYa'JYf[`Y]WX
 YbXYb'k]fX

BUWXXYa; U`UI m'8][]hU``5bZUb['X]YgYf`K cWXY'VY_Ubbh'[Y[YVYb\UhhYž'XUgg'Yg'Y]bY'JYfY]bVUfi b['ni f', VYfbU\a Y'XYg'?fmdhc!
JYfk U\fi b[gi bhYfbY\a Ybg'6]h; c'[Y_ØbX][h'\UhhYž'gU[hYb6fUbWXYbVYcVUWXhYfž'XUgg'VY]XY'I bhYfbY\a Yb'k U\fgWXY]b`]WXjfgi WXYb'k YfXYbž'Y]bYb'WXUch]gWXYb'FYWXhgghfY]h'nijYfa Y]XYb"

6]h; c'_cbhYfhY'a]h:XYf'6YUi ZhfU[ib['XYf'5bk U`hg_Ubn`Y]'Ei]bb 9a Ubi Y`ž'X]Y'VY\Ui dhYhYž'X]Y'? Ubn`Y]'\UVY'X]Y'YfZcfXYf`]W\Yb I bhYf`U[Yb'VYfY]hg'Y]b[YfY]W\h"

8 Ug'; YgW.ÀZh'j cb'6]h; c'V`Y]Vh'gc'ghUf_'k]Y'Y\'i bX'Y žgU[hY'F'' 6f]Ub'H]a a cbgž'DUfhbYf'XYf'5bk U`hg_Ubn`Y]'Ei]bb'9a Ubi Y`ž 6`cW_k cf_g']b'Y]bYf'9!A U]'''; U`Ul m']gh'XYf'Yb][Yž'XYf'Ui Z fY[i`Uhcf]gW.Yb'; Y[Ybk]bX'[Yghc»Yb']gh' '9g'ki fXY'j cb'XYf @ibU!?cbhfcj YfgY'\Y]a[Ygi W.h''

 $CVk c \in H$ a a $cbginij cfigU[hYžXUggi6]h; ciY]bY <math>?ØbX][ib[g[YVØ\setminus f']b'<O\setminus Y']cb'%$$^A]``]cbYb'|G!8c``UficXYf$

 $XUf \emptyset VYf' \setminus]bUig[Y \setminus YbXY'GWAXYb'gWAi`XYhž' \setminus Uh'Ei]bb'9a~UbiY`bcWA'_Y]bY'?`U[Y'[Y[Yb'; U`Ulm'Y]b[YfY]WAh''9]b'6]h;~c!GdfYWAYf`Y \setminus bhY'Y]bY'GhY``ib[bU\aY'UV'''$

8cbu`X`Di hbua ž'[YgW\ÀZhgZØ\fYbXYf'; YgY``gW\UZhYf'i bX A]hVY[fØbXYf'XYf'6YfUhi b[gZ]fa U'; fU]``DUfhbYfg'ZØf': i g]cbYbibX', VYfbU\aYb'fA / 5½*bUbbhY'Ei]bb'9a UbiY``Y]bY?UadZ\ibXZ]fa U "'

9gʻ]ghʻX]YgY`VYʻ:]fa UžʻX]Yʻ9`cbʻAig_'j Yfhf]hhžʻXYfʻj Yfgi WhžʻgY]b

VYfbU\a YUb[YVchʻj cbʻHk]hhYfʻ]bʻY]bYaʻDfcnYggžʻXYfʻ]a

C_hcVYfʻVY[]bbYbʻgc``ž'ni fØW_ni n]Y\Yb"ʻ5i W\Ei]bbʻ9a Ubi Y`

k Ufʻj YfhfYhYbʻF]dd`Yʻ@UVgʻVY]ʻXYfʻB]YXYf`U[YʻY]bYg

%+)!A]``]cbYb!8c``Uf!: U``gžʻXYfʻj cbʻXYfʻHYhfU[cbʻ:]bUbW]U``; fci d

j cfʻXYaʻ8Y`Uk UfYʻ7\UbWfmʻ7ci fhʻUb[YghfYb[h'ki fXYʻ-Y]b

JYfgi W\ž'Y]bYʻ\bj Ygh]h]cbʻbUW\XXYfʻ?`U[YʻXYfʻG97

ni fØW_ni [Yk]bbYb"ʻ9gʻ\UhʻUi W\a]hʻUbXYfYbʻ8][]hU`!5ggYh!

D`UhhZcfa Ybʻ]bʻ5b[Y`Y[Yb\Y]hYbʻ]a'Ni gUa a Yb\Ub[`a]h

6i bXYgk YfhdUd]Yf[YgYhnYbʻni gUa a Yb[YUfVY]hYh"

G]Y'g]bX'U[[fYgg]j ž'ghfY]hgØW\h]['i bX'VY]» Yb'cZh'i bX'\Ufh'ni žgU[hY'Di hbUa "' Bcfa U`Y'5bk U`hg_Ubn`Y]Yb'g]bX']\bYb'b]W\h [Yk UW\gYbž'U`gc'Yfk UfhYb'G]Yž'XUgg'X]Y'?Ài ZYf'Y]bY'YVYbgc ghUf_Y'; `UX]UhcfYb_Ubn`Y]'VYUi ZhfU[Yb"

9]b; U`UI mlGdfYWXYf`gU[hY`6`cW_k cf_g`5bZUb[`X]YgYf`K cWXYž XUgg` k]f`i bg`YbYf[]gWX`j YfhY]X][Yb`k YfXYb ž``Y\bhY`Yg`YXcWX UVž`g]WX`k Y]hYf`ni `Ài »Yfb"

?U`hY: ػYcXYfJYfhfU[gVfi W\3

; U`UI m'[UV Yfgha U`g'gY]bY 5Vg]W\h'VY_Ubbhž'6]h; c']a 'A U]'&\$&%]b'Y]bYf'6Uf!'i bX'5_h]YbhfUbgU_h]cb']a 'K Yfh'j cb'fi bX'%ž& A]``]UfXYb'I G!8c``Uf'ni 'ØVYfbY\a Yb"'8Ug'I bhYfbY\a Yb'd`UbhYžbUW\XYf', VYfbU\a Y'Y]b']b'8Y`Uk UfY'UbgAgg][Yg'I bhYfbY\a Ybni 'k YfXYb'i bX'Ub'XYf'BUgXUe'ni 'bch]YfYb"'

; U`UI m'gU[hY 'Ua 'A cbhU[ž'Yg'VYUVg]Wh][Y ']a a Yf'bcWhZ'Ub'X]Y

6ÒfgY'ni '[Y\Yb"'8]Y'\\J\fYgUVg\\`\ØggY\ž'j cb'\XYbYb'; U`\UI m VY\\Ui dhYh\z'6]h; c'\\UVY'g]Y'b]\\\h'fY\\\hnY]h]['Y]b[\YfY]\\h\z\gY]Yb'\Z\f X]Y'9]bfY]\\\i b['\VY]'\XYf'\G97'\Yf\Zcf\X\f`]\\\\\\z\gU[\hY'\Y]b'; U`\UI m! GdfY\\\Yf"'

8 Yf '8 YU``\ UhhY 'g]W\ 'VYfY]hg 'j YfnÒ[Yfh" 8]Y ::]fa Yb '[UVYb 'Ua '%" 5 df]``VY_Ubb hž 'XUgg 'XYf 'U_hi U`]g]YfhY '7 Ug\!UbX! 9ei]hm! 8 YU``&*)
A]``]cbYb 'I G!8 c``Uf 'i bX '((ž 'A]``]cbYb 'bYi 'Ui g[Y[YVYbY '5_h]Yb k Yfh'k Uf"'; U`UI m'a ØgghY '6]h; c` i bhYf 'VYgh]a a hYb 'I a ghÀbXYb %\$\$ 'A]``]cbYb '8 c``Uf 'nU\`Ybž'k Ybb 'XYf 'J Yf_Ui Z'b]W\ h'V]g '9bXY 'XYg \\J\fYg 'ni ghUbXY'_ca a hž\]Y» 'Yg 'XUa U`g"

H]a a cbgˈgU[hY 'X]YgY 'K cW\Yž'XUggʻ6]h; c 'XYbʻ8YU``bi fʻj Yf`Àb[Yfh\UVYž'k Y]``; U`UI mʻni [Ygh]a a hʻ\UVYž'X]Y 'dchYbn]Y``Y? ØbX][i b[g[YVØ\fʻni ˈnU\`Ybži bX 'ZØ[hY '\]bni ž'XUggʻYgʻUbXYfY

♣bhYfYggYbhYb`\UVY"

9g']gh'b]Wkh'k]f_`]Wk'_`Ufž'cV'XYf'?Ài ZYf'_U`hY': Ø» Y'VY_ca a h cXYf'cV'Yg'\]Yf'Y]b'YWkhYg']b\U`h`]WkYg'DfcV`Ya ']b'6Yni ['Ui Z'XYb \\J\fYgUVgWk\i gg'[]Vh ž'gU[hY'GUa '8]VV`Yž'DUfhbYf'XYf 5bk U`hg_Ubn`Y]'6U_Yf'6chhg"' 9g']gh'Ybhk YXYf'Y]bY'VYei Ya Y 5i gfYXY'cXYf'Yg']gh'XYf'Y][Ybh`]WkY'; fi bXž'k Ufi a 'g]Y'Yg UVgU[Yb"

: i g]cbgUVgU[Yb'k]Y'X]YgY'g]bX'`Ui h'DYhYf'GhcbYVYf[ž; YgW\ÀZhgZØ\fYf'XYf'A/5!6YfUhi b[gZ]fa U'5fW\]hYWh'DUfhbYfgžgY\f'i b[Yk Ò\b`]W\"'9f'ZØ[hY'\]bni ž'XUgg'X]Y'NU\``XYf': i g]cbYbžX]Y'bUW\'XYf'5b_ØbX][i b['VYYbXYh'k YfXYb''?fmdhc'cXYfUbXYfk Y]h][''kYb][Yf'U`g') 'i 'VYhfÀ[h'

?Ài ZYf`\UggYb`Ygžni '_ØbX][YbžkY]`'XUbb'XYf'bÀWkghY JYf_Ài ZYfža]h'XYa 'g]Y'ni gUa a YbUfVY]hYb'k c``Ybž'bYfj Òg']gh ž gU[hY'GhcbYVYf['ni '6`cW_k cf_g"': Øf'XYb'JYf_Ài ZYf'a i gg'XYf DfcnYgg'Yhnh'bUhØf`]Wk'j cb'j cfbY'VY[]bbYb"

5VYf'X]Y''Øb[ghYb'A Uf_hhi fVi `YbnYb'XØfZhYb'XUni 'VY][YhfU[Yb\UVYbž'gU[hY'BUi a Ub'G\Y]_\ž'<YUX'cZ'HfYUgi fm'A UbU[Ya YbhUbX'8Yf]j Uh]j Yg'VY]'K Uj Y':]bUbW]U`ž'i bX'ZØ[hY'\]bni ž'XUgg'X]Y

Df]j Uha Uf_hVYk Yfhi b[Yb'Y]bY'BYi VYk Yfhi b['j cf[Ybca a Yb\AhhYb'i bX'nk]gW\Yb'*\$'i 'i bX', \$'i '[Ygi b_Yb'gY]Yb"

CVk c\`Bcj c[fUhn']b'Y]bYa 'A U]!6f]YZ'Ub'X]Y'5_h]cbÀfY'gWkf]YVž XUgg'XUg'I bhYfbY\a Yb'XYa '; Y[Ybk]bX']a 'Ni gUa a Yb\Ub['a]h XYa 'Ni gUa a YbVfi Wk'j cb'HYffUg'I GH!GhUV'YWc]b'i bX'@ B5! Hc_Yb'Ui gk Y]WkYb'_cbbhYž'ZØ[hY'G\Y]_\`\]bni ž'XUgg'; U`UI m Xi fWk'HYffUg'I bhYf[Ub['j Yf`Yhnh'k i fXY'i bX'k U\fgWkY]b`]Wk'gY]bY; YgWkÀZhghÀh][_Y]h']bZc`[YXYggYb'bYi 'VYk YfhYb'k]fX"

 $8] Y @ [i] X] h A h] g h b U W X Y a GW Y] h Y f b j c b H Y f f U i b X H \ f Y Y 5 f f c k g 7 U d] h U `Y V Y b Z U `` g Y f \ Y V `] W j Y f g] Y [h ž g U [h Y G \ Y] _ \ 6 `c W_k c f_g '] b Y] b Y f '9! A U] `" C V k c \ `` Y g \] Y f 'k U \ f g W Y] b `] W h Y W \ b] g W Y 'D f c V `Y a Y '] b '6 Y n i ['U i Z c Z Z Y b g] W h `] W Y 'J Y f g h O >> Y [Y [Y b X] Y '6 Y X] b [i b [Y b '[] V h z _ O b b h Y 'Y g ' g] W `U i W 'i a 'Y] b Y b z ` U `` \ U b X Y `b z `] b `X Y a '; U `U I m 6] h c '] b '6 Y n i ['U i Z X] Y `@ U b X g W U Z h z `] b X Y f `k] f `i b g `[Y f U X Y `V Y Z] b X Y b z ` b] W h a Y \ f `U `g 'd c h Y b n] Y ``` d f c Z] h U V `Y \ V Y f b U \ a Y `U b g] Y \ h "$

; U`UI mj YfnY]W\bYhY`]a 'nk Y]hYb'E i UfhU``Y]bYb'BYhhcj Yf`i gh'j cb
))) 'A]``]cbYb'I G!8c``Uf"'8Ug'?fYX]hdcfhZc`]c'\UhhY']a 'E i UfhU`
Y]bYb': U``'Y]bYf'?fYX]hVYY]bhfÀW\h][i b[']b'<Ò\Y'j cb'Yhk U'%\$
A]``]cbYb'I G!8c``Ufž'X]Y'Ui Z'X]Y'*bgc`j Ybn'j cb'H\fYY'5ffck g
7Ud]hU`ni fØW_ni ZØ\fYb'k Ufž'qU[hYb': Ø\fi b[q_fÀZhY"

K Ug d Ugg]Yfh U`g b À W ghYg3

5WkhYb'G]Y'Ui Z': Yi Yfk Yf_ž'[YZc`[h'j cb'Y]bYf'5VfYWkbi b['bUWk XYa 'DibWk!JbX!¬i Xm'G\ck ž'gU[hY'Di hbUa 'ni '6`cW_k cf_g"'

8]VV`Y'j cb'6U_Yf'6chhg'gh]a a hY'ni 'i bX'gU[hYž'XUgg'Yg k U\fgW\Y]b`]W\fY]W\`]W\` GÀVY`fUggY`b '[YVYb'k YfXYž'VYj cf'Y]bY 5fh'9]b][i b['Yfn]Y`h'k YfXY"'K Ybb'; U`UI m'g]W\`XUZØf'YbhgW\Y]XYhž XYb'8YU``Zcfhni gYhnYbž'_ÒbbhYb'g]Y'j Yfgi W\Ybž'XYb'DfY]g'bYi 'ni j Yf\UbXY`b'cXYf'Y]bY'UbXYfY': f]gh'ZØf'XYb'9f\U`h'j cb :]bUbnVYf]W\hYb'ZYghni `Y[Ybž'ZØ[hY'Yf'\]bni "'5bXYfbZU``g'_ÒbbhYb g]Y'XYb'8YU``VYYbXYbž']bXYa 'g]Y'X]Y'?ØbX][i b[g[YVØ\f'j cb'%\$\$ A]``]cbYb'I G!8c``Uf'nU\`Yb"'

→W `XYb_Yž'X]YgY `VY]XYb `9f[YVb]ggY `g]bX `j]Y``k U\fgW\Y]b`]W\Yf U`g'Y]b`Ui g[Yk UW\gYbYf'; Yf]W\hgdfcnYgg ž'gU[hY `8]VV`Y"

→ Ya UbXYb `ni `nk]b[Ybž'Y]bYb `8 YU``k]Y `X]YgYb`UVni gW\`]Y» Ybž dUgg]Yfh`bcfa U`Yfk Y]gY`b]W\h"

 $BYVYb^*XYf^*JYfa Y]Xi b[^*dchYbn]Y^*^hYi fYf^*5bk U^hg_cghYb^*_ObbhYY]b^*JYf[^*Y]WX^*X]Y^*I bhYfbY^a Yb^*Ui WX^*j cf^* FØW_gWX^*A[Yb^*Xi fWX^*OZZYbh^*]WX^*Ui g[YghfU\^hY^GWX^AfZY^*VYk U\fYbz^*gU[hY^G\Y]_\"$

GhcbYVYf['gU[hYž'Yf'Yfk UfhYh'E UhU`mgh! DUfhbYfY]bY

=bj Ygha YbhVUb_ž'X]Y'U`g'6YfUhYf'ZØf'XYb'; U`Ul m!8YU`'j cb'6]h; c

Zi b[]YfhYž'k]fX']a 'BUa Yb']\fYg'?i bXYb'U[[fYgg]j'j cf[Y\Yb"''

 $8 \ Ug'k \ \varnothing fXY']WX'j \ Yfa \ i \ hYb' \ O\!\!E \ UhU'mghQ]gh'Y]b' HY]''j \ cb'' \ O\!\!E \ Jh' \ c \ gQ$ $GhfUhY[\]Y'ni'' \ O\!\!gYW'' \ fY'h\Y'hYfa \]bUh]cb'' \ ZYYQ \ bX''Ui' \ WX \ z''X Ugg''g]Y''Y]b$ $cXYf'nk \ Y]''UbXYfY''? Ai \ ZYf'\ UVYb \ z'X]Y']b''XYb'' GhUfh'OW \ Yfb''ghY\Yb \ _O'bbhYbz''gcVU'X''g]Y'X]YgY''5Vk \]W_`i \ b[''Xi fWX[YUfVY]hYh'\UVYb \ z'gU['hY'Yf''']$

пэп

8]Y'Dcgh'?U`hY': Ø» Y'cXYf'J YfhfU[gVfi W\3'9]b'6`]W_'Ui Z'X]Y'; U`UI m\6]h; c!G]hi Uh]cb']gh' Y]bY'Z]bUbn]Y``Y'6YfUhi b["

8 Y hU]`g

6 Ygi WX Yb 'G]Y 'i bg 'Ui Z. '_fmd hc!bYk g"Uh