

⇒ a a][fUh]cbY 8cW/a Ybh]



8cW/a Ybh]! ; YbYfUY

J]YhbUa]hU

HÐ] W' h' h' a i i' b' i' Bb[' _ÉSSSS' i' ¾3
8ca UbXUFY' Xcj Y'di c] h'fcj UFY' i' b' a cXi `c

=b[`YgY

K \YfY'Wb' =Z]bX'h'Y'Zcfa 'Zcf' SSSS'3

? \] b' c' [] i QWUV b' i' WUb' \ ' b' \ 3

8ca UbXUFY' ei UbXc' Ä' g' Urc' f] ' U' g' Urc' i' b' XcW/a Ybrc

K \Yb' k' U' g' nci f' ' ÖcW/a Ybh] Q] ggj YX3

Öh] i QWUV b' i' WUb' \ ' b' \ i' ¾3

8ca UbXUFY' Xcj Y' Ä' g' Urc' f] ' U' g' Urc' i' b' XcW/a Ybrc

K \YfY' k' U' g' nci f' ' ÖcW/a Ybh] Q] ggj YX3

? \] b' c' [] m' Vb' W' W' 7A B 8É' WUV b' \ h' \ b' 3

8ca UbXUFY' ei UbXc' g' WXY' i' b' U' W' f' U' X' f] X' Y' b' h' i' 4

K \Yb' XcY' g' nci f' =8' Y' l' d] fY3

6 b' W' h' [] Öd' h' i'] b' a i i' b' b' i' W' \ _Éb[3

8ca UbXUFY' U' ei U' W' bc' g' y' di i' U' j' i' h' f] ' U' W' a' d] ' UFY' i' b' a cXi `c

7ci `X' nci `Y' d' a' Y' Z] `ci h' h' Y' Zcfa 3

HÐ] Wb' a Ub[' b' \ b[' h'] i [' Èi' ' SSSSSS' 3

8ca UbXUFY' ei U] XcW/a Ybh] Xy]] d' c' f' U' Y

K \Uh' XcW/a Ybh] g' ci `X' =Vf] b[' Zcf' SSSSSSSSSS' 3

i' i' Bb[' _ÉWc' Öh] i' QV b' Wb' Wb[' Wd' É' h' \ h' SSSSSS

8] fY' WXY' Xy]] f] W] YXY' Y' i' b' XcW/a Ybrc

Hc' Udd' m' Zcf' ÖcW/a Ybh] nci ' a i' g' id' f' c] j' X' Y' U' h' `Y' U' g' SSSSSSSS"

Öh] i QWU' h' i' ; V' i' b' \ Wd

5 ZYfa UFY' WXY' i' b' h' c' XcW/a Ybrc' Ä' g' Urc' fi' VUrc

A m' ÖcW/a Ybh] U' g' V' Y' b' g' r' c' Yb"

HÐ] i' Bb[' _É\ ' SSSSSSSS

5 ZYfa UFY' WXY' g' U] ' W' a' d] ' UbXc' i' b' U' Xca UbXU' d' Yf' W' b' r' c' X] ' ei' U' W' b' U' h' c

=Ua' W' a' d' Y' h] b[' h'] g' Udd'] W] h] cb' cb' W' U' ZcZ' SSSSSS"

H\Éb[' h] b' b' i' ¼Éa' h

5 ZYfa UFY' WXY' Y] b' Zcfa U] cb] ' g' c' b' c' f] g' y' f] U' h' Y' b' c' b' g' U' f' U' b' c' c' f] j' Y' U' h' U' h' f' i' n]

H\Y'] b' Zcfa U] cb] ' g' W' b' Z] X' Y' b' h] U"

6 b' W' h' ' Wc' h'] \ i' U' i' b' \ _Éb[3

8ca UbXUFY' g' y' di c] U] YfY' i' b' U' f] W] i' h' U' X] ' W' b' g' y' [b' U' X' Y' U' h' U' Xca UbXU

7 Ub' nci [] Y' a' Y' U' f' W] dh' Zcf' h'] g' Udd'] W] h] cb' 3

8cW/a Ybh]! '8Uh] dYf' gcbU]

J]YhbUa]hU

=b[`YgY

=a a][fUh]cbY 8cWa Ybh]

6 b'h4E[È3
8ca UbXUFY]' bca Y'X]i bU'dYfgcbU

K \Uh]gnci f' bUa Y3

7 \c'fD]V] hb]' j ¼b[¼mg]b\ WUV b'í W
_ \Eb[3
8ca UbXUFY'Uei U'Wbc]' 'i c[c'Y''U'XU'X]' bUgV'fU'

7 ci `X'nci 'd'YUgY'fY''a Y'nci f'd'UW'UbX'XU'Y'cZV]fH.3

6 b'g b[' í ¾43
8ca UbXUFY'Uei U'Wbc'ei U'Ä]' 'g' c''i c[c'X]' fYg]XYbnU'

K \YfY'Xc'nci ''j Y3

i U'W' WUV b''¼[È3
8ca UbXUFY'Uei U'Wbc]' 'g' c]' bX]f]nnc

K \Uh]gnci f' UXXfYgg3

E i W'hW' WUV b''¼[È3
8ca UbXUFY'Uei U'Wbc''U'g' U'V'fU'X]bUbnU'

K \Uh]gnci f' V]h'nYbg.]d3

? \] b'½c'V b'í b'04E'b V03
7 \]YXYfY'Uei U'Wbc'ei UbXc'Ä'Uff]j U'c']b'í bc'g'fU'c

K \Yb'X]X'nci 'Uff]j Y]b'04E' b'f'n03

6 b'Wc'fD]i Ya [] m'V0b'W W'f7A B8E'WUV b
í W_ \Eb[3
7 \]YXYfY'Uei U'Wbc'X]' a' cg'fU'f]''U'g' U'W'fU'X]']XYbh]f¼

7 ci `X'nci 'd'YUgY'g'ck 'a Y'nci f'=83

8cWa Ybh]! 'GhUc'X] ZLa][`]U

J]YhUa]fU

HÈb\ 'f b[\Eb'b\¾'WU'fD]' '¼SSSSSSSS
8]fY'ei U'Ä]' 'h' c'g'fU'c' V]j]'Y

=b[`YgY

A' m'ia Uf]fU' g'fU' g]g'SSSSSSSSSSS"

í W'¾¾
GhUc' V]j]'Y

g]b[`Y

í ½'h'¾\ \Eb
GhUc' V]j]'Y

a Uff]YX

`m'h'¾¾
GhUc' V]j]'Y

g'dU'fU'YX

⇒ a a] [f U h] c b Y 8 c W a Y b h]



<p>̀mX GhUc`Vj]`Y</p>	<p>X]j cfWX</p>
<p>g b[`h GhUc`Vj]`Y</p>	<p>Vc\UW]h]b[</p>
<p>_ h\ d`X%b`g GhUc`Vj]`Y</p>	<p>]b`U`Vj]`i b]cb</p>
<p>í]`h`W`W U_ h\`Eb GhUc`Vj]`Y</p>	<p>i ba Uff]YX`dUfHbYfg</p>
<p>\ d`XcUb\ []U`hi W GhUc`Vj]`Y</p>	<p>]b`U`Xca Ygf]VdUfHbYfg]d</p>
<p>[] U d\` GhUc`Vj]`Y</p>	<p>k]Xck YX</p>
<p>6 b`W`V`b`W U3 8ca UbXUfY`Uei U`Wbc`gy`U`Z[]`</p>	<p>8c`nci `Uj Y`W]`XfYb3</p>
<p>6 b`W`g b[`V`b[]`b[]`d\ `h`i Wb`%`_`Eb[3 7\]YXYfY`Uei U`Wbc`gy`Zcfb]gW`U]i h`c`Z]bUn]Uf]c`U`Y`dYfgcbY`W`Y`j]j cbc`V`b`i]`#Y]</p>	<p>8c`nci `Uj Y`XYdYbXYbhg`]j]b[`k]h`nci 3</p>
<p>H`E]`a i b`í W c`b`h`j] []U`í E`b\`W`U`a E`b\ 5 ZYfa UfY`U`h`U`j c`cbh`X]`f]V`b[]i b[Yfh]`V`b`U`h`U`Z]a] []`U</p>	<p>=k ci `X`_`Y`h`c`f`Y`i b]h`k]h`a m`Z]a]`m`i</p>

8cW a Y b h] ! F Y [] g f U f g] b V a i b Y

<p>J]YbUa]hU H`E]`a i b`í Bb[]`É` `h`%`d\` `b`%`n 8]fY`W`Y`j i c]]gW]j Yfh]`U`f`ubU[fUZY`XY]`fYg]XYbh]]b`V`a`i`b`Y</p>	<p>=b[`Y`g`Y =k ci `X`_`Y`h`c`f`Y[]g`Y`f]b`h`Y`V]h`m`i</p>
<p>H`E]`W`b`a`U`b[]`b\` b[]`h`%`i] []`E3 8ca UbXUfY`ei U]`X`c`W`a`Y`b`h`]`X`Y]`Z`c`f`b`]`f`Y</p>	<p>K \U`h`X`c`W`a`Y`b`h`g`U` `=V`f]b[3</p>
<p>6 b`W``h`i`d`\`E`í`B`b[]`É`_`Eb[3 8ca UbXUfY`gy`V]g`c`b`c`V`e`g]`d`Y`f`]g`W]j`Y`f`g]`U`f`i`b`U[`f`U`Z`Y</p>	<p>5f`Y`h`Y`f`Y`U`b`m`i`f`Y[]g`f`U`h]c`b`Z`Y`g`3</p>

⇒ a a][fUh]cbY 8cW/a Ybh]



HÐ]í b'í ðáí í ðb['ÉW ' =Ua `YfY'Zcf`h\Y'Xca]V]Y'fY[]gfU]cb"
8]fY'WY]j i c]ZUFY]'`Wba V]c'X]'Xca]W]c

HÐ]a i b'l]b'[] mW b['b\ b'\ b'_] a`h h =k ci `X`_]Yhc`Udd`mZcf`U[ccX`WcbXi V]Wf]jZ]WU`
8]fY'WY]j i c]chYbYfY'i b`Wf]jZ]WUhc`X]'Vi cbU`WcbXchU

HÐ]a i b'í ðb['É[] mha`fÖ =k ci `X`_]Yhc`Udd`mZcf`U'fYg]X'YbW'dYfa]H'
8]fY'WY]j i c]ZUFY'Xca UbXU'dYf'i b'dYfa Yggc`X]'gc[[]cfbc

8cW/a Ybh]! '5gg]WfUh]cbY'gub]hUf]U

J]YbUa]hU

HÐ]a i b'\]a`g`W\` \]j`V`c`\] a`mh" =b[`YgY
=k ci `X`_]Yhc`Ug`gca`Yei`Yg]cbg]Uci`h\Y`YU`h`
]bg`fUbW`
8]fY'WY`\U]'U`WbY'Xca UbXY'f][i UfXc`f]ügg]WfUh]cbY'gub]hUf]U

HÐ]W`Wb`V`c`\] a`mh`h`b\`ð\`Um_\`Eb[3 8c`=bYX'df]j`UH`\YU`h`]bg`fUbW3
8ca UbXUfY'gY`\U]'V]gc[bc`X]'i b]f]ügg]WfUh]cbY'gub]hUf]U'df]j`hU

6`c`\] a`g`W_\`YVUc:[`a`b\`b[]É3 K` \Uh]g]W]j`YfYX`Vmh`Y`\YU`h`]bg`fUbW3
=bZcfa`Uf]j`f][i UfXc`Wt`gU`Ä]bW`gc`bY`f]ügg]WfUh]cbY`

D\ÉV`b\]] b <cgd]hU`ZYg
9gYa`d]c`X]'gdYgY`Vt`dYf]Y`XU`f]ügg]WfUh]cbY'gub]hUf]U

D\ÉW`i`m`É[]JU GdW]U]g]gfZYg
9gYa`d]c`X]'gdYgY`Vt`dYf]Y`XU`f]ügg]WfUh]cbY'gub]hUf]U

L`Á`hb[\] a`W`b'í`c`ð 8]U[bcg]WY]gYg
9gYa`d]c`X]'gdYgY`Vt`dYf]Y`XU`f]ügg]WfUh]cbY'gub]hUf]U

H\`h`Wd\`i`h`i`h Gi`f[]W`dfcWXi`fYg
9gYa`d]c`X]'gdYgY`Vt`dYf]Y`XU`f]ügg]WfUh]cbY'gub]hUf]U

i] i`f`h`á`h`b DgnW]Uf]WfYUha`Ybh
9gYa`d]c`X]'gdYgY`Vt`dYf]Y`XU`f]ügg]WfUh]cbY'gub]hUf]U

i] i`f`b\U_\cU 8YbH`fYUha`Ybhg
9gYa`d]c`X]'gdYgY`Vt`dYf]Y`XU`f]ügg]WfUh]cbY'gub]hUf]U

=a a][fUh]cbY 8cW/a Ybh]



i] i 'f 'b\g'b'_\cU

9nY'WfY'fYUha Ybh

9gYa d]c'X]gdYgy'VtdYfh'XU'fubgg]WfUh]cbY'gub]hUf]U

8cW/a Ybh]!' J]g#c

J]YhbUa]hU

=b[`Ygy

H]]gbc'V b'Wb'h 'h Wb\ d'Wb\3

K \m'UFY'nci 'fYei Ygh]b['h.YYbhf'nj]gJ3

8ca UbXUFY'Uei U'Wbc'dYfV\A'gU'f]V]YXYbXc'i b]]g#c'X]b[fYggc

H]W'Wb'h 'h W 'i b'Wb'i hb W_\Eb[3

8c'='bYX'Uj]gJ'hc'j]g]h'W' b'f'n'3

8ca UbXUFY'gY'\U]V]gc[bc'X]i b]]g#c'dYf'YbhfUFY']b'i b'dUYgy

@%a 'h 'b'c'i []U\ b'h 'h W'WU'f]3

<ck 'Wb'='Yi h'YbX'a mj]gJ3

8ca UbXUFY'Wta Y'di c]'dfc'i b[UFY]'dYfa Yggc'X]gc[[]cfbc

H]]gbc'i b']b'h 'h W'WU'f]V'h 'W]3

K \m\Ug'a mj]gJ'Udd']W]cb'VYb'fY'W'X3

8ca UbXUFY'dYfV\A'gU'hc'f]Z]i h'hc']'h'i c'dYfa Yggc'X]gc[[]cfbc'

H]W'h 'i Bb['_Ei 'f 'h'W\ 'W'X'W'h b['fÖ
i W_\Eb[3

7Ub'='Udd'm'hc'W'Wta Y'U'dYfa UbYbhfYg]X'Yb'3

8ca UbXUFY'gY'di c]'ch'Yb'fY]'X]f]hc'X]gc[[]cfbc'dYfa UbYb'h']b'i b'X'Y'f'a]b'hc'dUYgy

8cW/a Ybh]!' ; i]XU

J]YhbUa]hU

=b[`Ygy

H]W'd\]'h'Umí]'V] b'g 'i Y'W'U'a 'E\ \Um
_\Eb[3

8c'='\Uj Y'hc'W'Ub['Y'h.Y']'Wb'gY'd'U'Y'c'Za m'W'f'3

8ca UbXUFY'gY'Ä'bY'W'ggU]c'W'a V]UFY'U'fUf['UX]'a a Uf]W'Uh]cbY'XY'U'a U'W'X]bU'

H]W'a i b'i Bb['_Ei Y

=k ci 'X'[_Y'hc'fY]'gY'f'a mj Y\]W'

8]fY'W'Y]j i c]'fY]'g'fUFY]'h'i c]j Y]W'c

6 b['^]I Y'W'U'f]W'\ i ' W 'i 'h'i\Um_\Eb[3

=g'a m'X'f]j]b['^]W'W'j U]X'\Y'f'3

8ca UbXUFY'gY'U'hi U'dU'h'Y'X]'i]XU'Ä'j U]XU

H]W'a i b'i Bb['_Ea hV b['^]I Y'ha 'h]

=k ci 'X'[_Y'hc'Udd'm'Z'f'U'df'c]j]g]cbU'X'f]j]b['^]W'W'gY'

: UFY'Xca UbXU'dYf'i b'dYfa Yggc'dfc]j]gcf]c'X]'i]XU

⇒ a a] [f U h] c b Y 8 c W a Y b h]



V] \ \ b [H] d c ' X] d f c V ' Y a U

X U a U] Y X

H] ' a i b ' _ \] i b] j] W W ' i ' B b \ ' W [] m d \ A d ' ' 1/2
I Y "
8] f Y ' W X Y j i c] ' Z U F Y ' f] V z f g c ' V z b f c '] ' f] h f c ' X Y ' ' U h U ' d U Y b h Y

= k c i ' X ' ' _ Y h c ' U d d Y U ' a m '] W b g Y ' g g d Y b g] c b "

8 c W a Y b h] ! ' 7] h U X] b U b n U

J] Y h b U a] h U

= b [' Y g Y

H] ' a i b ' i B b [' _ E i m b V D b [' X 3/4 ' h] ' O A B ' i h
b V Ø
8] f Y ' W X Y j i c] ' d f Y g y b h U F Y ' X c a U b X U ' d Y f ' c h Y b Y F Y ' ' U V] h U X] b U b n U X] i b ' d U Y g Y

= k c i ' X ' ' _ Y h c ' U d d ' m ' z c f ' O A B i b h f m i U X ' W M j Y O M] h n Y b g] d "

H] ' W ' h ' i B b [' _ E _] a ' h U O [' D b ' b [' O ' i 3/4 3
8 c a U b X U F Y ' X c j Y ' d i c] '] g W] j Y f h ' U i b ' h y g h X] '] b [i U

K \ Y f Y W b ' = f Y [] g h Y ' z c f ' h Y ' O u b [i U] Y c h y g h

H] ' _ \ ' D b [' W ' h ' b ' 1/2 ' h ' b ' g
8] f Y ' W X Y \ U] ' ' U Z Y X] b U ' d Y b U Y ' d i '] h U

= \ U j Y ' U W W U b W] a] b U ' f Y W z f X "

H] ' W ' h ' B b \ ' i ' O [' D b ' b [' O ' i h m A E ' W i
8] f Y ' W X Y \ U] '] ' j Y ' c ' X] '] b [i U f] W X] Y g h c

= \ U j Y h Y f Y e i] f Y X ' ' Y Y ' c z O u b [i U] Y O

H] ' a i b ' i B b [' _ E _ E _] a ' h U j ' _] b ' h ' W h b [e i 1/2 j ' W ' W g b [' ' O h b V Ø
8] f Y ' W X Y j i c] ' d f Y g y b h U F Y ' X c a U b X U ' d Y f ' f y g l a Y ' X] ' V] h U X] b U b n U X Y ' d U Y g Y

= k c i ' X ' ' _ Y h c ' V c c _ ' h Y h y g h U v c i h [Y b Y f U ' _ b c k ' Y X [Y ' c z '] Z Y] b ' O A B i b h f n O

A ' W d \ E i ' i B b [' _ E e i m b V D b [' X 3/4 ' ' 1/4 V U c ' b \] A E 3
8 c a U b X U F Y ' e i U] ' g c b c ' ' Y ' g d Y g Y ' d Y f ' ' U X c a U b X U X] ' V] h U X] b U b n U

K \ U h U F Y h Y Z Y g z c f ' V] h n Y b g] d ' U d d '] W h] c b 3

J ' f W b [' E ' H] ' ' 1/4 V D b [' X 3/4 ' O A B ' i h b V Ø
8] f Y ' e i U ' A ' ' U V] h U X] b U b n U X Y ' h i c ' V z b] i [Y

A m g d c i g Y '] g U O U h] c b U] h m i U X ' W M j Y O M] h n Y b "