

@YbnYb'ZY]Yfh'GhUXhZYgh.'HfUX]h]cbž'Aig]_ ibX'GdU»'ZØf'U``Y°

9f`YVYb`G]Y`XUg`GhUXhZYgh`]b`@YbnYbž`Df][b]hnž`Ua`&)"!&*" \$\`]`&\$&)`a]h`Aig]_ž`AUf_h`ibX`\]ghcf]gW\Yb`: Ø\fib[Yb" GY]Yb`G]Y`XUVY]°



@YbnYbž8Yi hgWX`UbX'!8]Y`\ØVgWXY`GhUXh`@YbnYb`Ub`XYf`9`VYž
X]Y`]a `\\]\f`-(\+`Yfgha U`g`i f_i bX`]\W\`U`g` Wj]hUg `Yfk À\bh`k i fXYž
ghY\h'j cf`Y]bYa `VYgcbXYfYb`9fY][b]g. 5a `&) "\\\\`]\&\&\) `Z]bXYh
\]Yf`XUg`U``^\A\f`]\W\Y`GhUXhZYgh`ghUhh"\8]Y`hfUX]h]cbgfY]\W\Y`GhUXhž
VY_Ubbh`ZØf`]\f`[YgW\]\W\hghf\A\W\h][Yg`9fVY`i bX`]\fYb`7\Ufa Yž
k]fX`Ub`X]YgYa `5VYbX`i a `%-.'\\$`I\f`a]h`_`Ub[j c``Yb`A\Y`cX]Yb
j cb`; Øbh\Yf`; c[`Yf`]b`XYb`:Y]Yfa cXi g`j YfgYhnh"\8]Y
:\Ygh`]\W_Y]hYb`a Uf_]Yfh`Y]bYb`k\Y]hYfYb`<\O\Ydi b_h`]a `_i `hi fY``Yb
@YVYb`j cb`6fUbXYbVi f[ž`XUg`U`g`Y]bY`XYf`A`hYghYb`Gh\XhY`XYg
@UbXYg`[]`h"`BcfX_i f]Yf`VYf]\W\hYhž`XUgg`X]Y`6Ø\bY`j cf`XYa
\]ghcf]g\W\Yb`FUh\Ui g`Yff]\W\hYh`k]fXž`k Ug`Y]bYb`]bhYfYggUbhYb
6`]\W_`Ui Z`X]Y`VY_UbbhY`G_i `dhi f`XYf` 6fYnY`hUbhY `j cb`5bbU
;\f]YVYb`V]YhYb`k]fX``Ui \W\k\Ybb`X]YgY`hY]`k\Y]gY`j\YfXY\W_h`gY]b

8]Y' 6fYnY`hUbhY ']gh'b]W\h'bi f'Y]b'?i bghk Yf_ž'gcbXYfb'Ui W\'HY]`XYf'fY[]cbU`Yb'; YgW\]W\hY'': fØ\Yf'k Uf'Yg'6fUi W\ž'XUgg'6fYnY`bUb'?]bXYf'j YfgW\Yb_h'k i fXYbž'XcW\'X]YgY'gW\ÒbY'HfUX]h]cbYbXYhY'a]h'XYa '5i gVfi W\'XYg'9fghYb'K Y`h_f]Y[Yg''BUW\'XYa a i g]_U`]gW\Yb'5i ZhU_h'k]fX'Y]b'VYgcbXYfYf'@YW_YfV]ggYb'ZØf'X]Y:]`a ZUbg'[YVchYb.'8Yf'8YZU!:]`a '8]Y'FY]gY'bUW\'Gi bXYj]h'k]fX[YnY][h' XYf'9]bhf]hh']gh'ZfY]'i bX'j Yfgdf]W\h'Y]b'i bhYf\U`hgUa Yf

9]b : Ygh ZØf X]Y [UbnY : Ua]`]Y

8 UgʻGhUXhZYghʻ]bʻ@YbnYbʻk]fXʻUaʻGUaʻghU[ʻzʻXYaʻa**"¬¬¬¬¬\&\$&) ž
Xi fWX Y]bYbʻVi bhYbʻA Uf_hʻ]bʻXYfʻ?Y``YfghfU»YʻV]gʻni fʻ< UaʻVi f[Yf
GhfU»YʻZcfh[YgYhnh"·6Øf[Yfa Y]ghYfʻK UʻhYfʻ¬¬¬¬¬\k]fXʻi aʻ%\$ʻI\f
X]Yʻ9fÒZZbi b[ʻj cfbY\a Yb"·6Ygi WXYfʻYfk UfhYhʻ\]YfʻY]bʻhc``Yg
5b[YVch'Ui gʻ?YfUa']_ʻi bXʻk Y]hYfYbʻ\UbXk Yf_`]WXYbʻK UfYb"
Ni XYaʻg]bXʻnU\`fY]WXYʻ?]bXYfU_h]cbYbʻ[Yd`UbhzʻXUfi bhYf
GWXa']b_Ybʻi bXʻY]bʻ?Ufi ggY``zʻk UgʻXYbʻ_`Y]bYbʻ; ÀghYbʻg]WXYf`]WX

 $: \varnothing f ``A i g]_`]YV \setminus UVYf `[]Vh ``Yg ``Ua ``GUa ghU[``UV ``%%`I \setminus f `Y]b Yb a i g]_U`]g ``M Yb `: f \varnothing \setminus g ``M c d Yb ``a]h ``XYf ``6 Ub X ``C ``X `; f YYb ``7 ``c j Yf ž `X]Y a]h `]\f Yb ``? ``Ab[Yb ``Ui g ``#]g\\ `: c `_ `i b X ``C ``X]Yg ``Z\Øf `[i h Y ``Gh]a a i b [gcf[Yb ``k]f X '' K Yf ``ni g Ahn `]W\ ``@i gh ``Ui Z ``HUbn `\ Uh ž ``gc ``h Y ``g]W\ `X]Y 5 i Zhf]hh Y ``XYf ``HUbn[fi d d Yb ``XYg ``@Ybn Yb Yf ``7 Uf b Yj U`` 7 `i Vg `i a %' .' $ `I \f `b]W\ h ``Ybh[Y\Yb ``Ugg Yb ''` 8 Ua]h `b]W\ h `[Ybi [. '9]b Y GhUXh \Z\Ø\fi b[`i a `%' I \f ž `X]Y ``Ui W\ `XUg `\]ghcf]g W\ Y GW\ Uf Zf]W\ h Yf\ Ui g `Y]b g W\ `]Y \rightarrow h z `\f ``x `Yfn A\ `h z `X Ugg `X]Y ``Yhnh Y GW\ Uf Zf]W\ h Yf]b 'j c b `@ Ybn Yb `Y]b Y `: f Ui `k Uf `i b X `X Ugg `X]Y ``Yhnh Y GW\ Uf Zf]W\ h Yf]b 'j c b `@ Ybn Yb `Y]b Y `: f Ui `k Uf `i b X `X Ugg `X]Y ``Hf UX]h]c b X Yf `< [bf]W\ h i b[`% & + `Yb X Yh Y ''$

5 hhfU_h]cbYb i bXI bhYf\U`hi b[

 Y]bY'j]giY``Y': Ø\fi b['j cb'8 UW\VcXYb'ni '8 UW\VcXYb'[YVYbž'X]Y X]Y'BYi []YfXY'XYf'6Ygi W\Yf'k YW_Yb'gc``"8Yb'_fÒbYbXYb 5VgW\`i gg'XYg'GhUXhZYghYg'V]`XYb'XUbb'X]Y'<]hg'XYf'`YhnhYb'\\\fY a]h'XYf'6UbX'@ | i gfUi gW\'UV'\&\'I\f"'<]Yf'_ObbYb'U``Y hUbnZfYi X][Yb'; AghY'X]Y'BUW\h'ni a 'HU['a UW\Yb"'9g'g\W\Y]bh\'Z'U`g cV'@YbnYb'U``Yg'V]YhYh\ZhYb'\5_h]j]h\AhYb"

9]b 'GhUXhZYgh']gh'a Y\f'U`g'bi f'Y]b : Ygh/'Yg']gh'Y]bY'5i gXfi W_gZcfa j cb ; Ya Y]bgW\UZhii bX'@c_U`ghc`n"'U[!\]ghcf]gW\Y!ghUXh_YfbY\\YVh'\Yfj cfž'XUgg'XUg'GhUXhZYgh']b @YbnYb'b]W\hibi f'XYb6Yk c\bYfbž'gcbXYfb'Ui W\'6Ygi W\Yfb'Ui g'bU\'i bX'ZYfb'\Yfn`]W\ni [Àb[`]W\']gh"'C V'a Ub'Y]bYb'[Ya Øh`]W\Yb'6i a a Y``Xi fW\'X]YGhUXh'a UW\h'cXYf'g]W\'Y]bZUW\']a 'Vi bhYb'HfY]VYb'j Yf`]Yfh' \]Yf]gh'ZØf''YXYb'Yhk Ug'XUVY]°

9]b J c`_gZYgh'k]Y 'X]YgYg']gh'b]WX h'bi f'Y]bY 'gWX ObY '5Vk YWXg'i b[
]a '5``hU[ž'gcbXYfb ni [`Y]WX 'Y]b': YbghYf'ni f'HfUX]h]cb"'9g'j YfY]bh
A YbgWX Ybž'ZOfXYfh'?ccdYfUh]cbYb nk]gWX Yb 'J YfY]bYb'i bX '`c_U`Yb
5bV]YhYfb'i bX 'gcf[h'gca]h'ZØf'Y]b'YWX hYg'; Ya Y]bgWX UZhgYf`YVb]gž
XUg'¾ b['i bX'5`h'ZYggY`h"'Gc']gh'XUg'GhUXhZYgh']b'@YbnYb'Y]b
k i bXYfVUfYg'NYi [b]g'XUZØfž'k]Y'HfUX]h]cbYb'[YdZY[h'k YfXYb
i bX'[`Y]WXnY]h]['F Ui a 'ZØf'BYi Yg'YbhghY\h"

GY]Yb'G]Y'U`gc'XUVY]ž'k Ybb'@YbnYb'gY]bY'DZcfhYb'ZØf'X]YgYg [fc»Ufh][Y': Ygh'ÒZZbYh' 'Yg']gh'XYf'dYfZY_hY'5b`Uggž'i a 'X]Y'GYY`Y VUi a Y`b'ni '`UggYb'i bX'XUg'@YVYb'ni 'ZY]Yfb'

8 Y hU]`g	
Cfh	@YbnYbž'8YihgW\`UbX
EiY``Yb	• k k k "bcfX_i f]Yf"XY
	 U[!\]ghcf]gWXY!ghUXh_YfbY"XY
	• XY"a "k]_]dYX]U"cf[