

$J Yf_Y fgW Ucg^{'}b^{'}K YggY^{'}b[.^{'}5))^{'}V]g$ $\Rightarrow b]^{*}$ \$\text{\$\frac{1}{2}}b^{'}Y]b[YgW f\text{\$\frac{1}{2}}b_{-}h^{\text{\$\frac{1}{2}}}}

6Ui ghY``Yb`Ui Z'XYf'5))) 'nk]gWXYb`K YggY`]b['i bX'; cXcfZ ZØ\fYb`V]g`ni a '%' "'> b]'&\$&) 'ni 'JYf_Y\fgVY\]bXYfi b[Yb i bX`GhUi g"



K YggY`]b[ž8Yi hgWX`UbX`!'6Y_Ubbh`]W\'V`Y]Vh`XYf'JYf_Y\f']b
i bX`i a '?O`b`b]Ya U`g`ghY\Yb` 'Yhhh'U``YfX]b[g`k]fX`Yg`kY[Yb
X]j YfgYf'6Ui ghY``Yb`Ui Z`XYf'5))) 'VYgcbXYfg`\c`df]["'@Ui h`
bYk g"XY`g]bX`X]Y`5fVY]hYb`gY]h`XYa '%%"`5df]``&\$&) ']a 'j c``Ya
; Ub[Y`i bX`k YfXYb`j cfUi gg]W\h`]W\`V]g`ni a '%' "'\$b]`&\$&)
UbXUi Yfb"'8]Y`6Ui ghY``Yb`YfghfYW_Yb`g]W\`Ui Z`Y]bY`@\h[Y`j cb
a Y\fYfYb`?]`ca YhYfb`nk]gW\Yb`XYb`5bgW\`i ggghY``Yb`K YggY`]b[
i bX`?O`b!FcXYb_]fW\Yb`i bX`ZØ\fYb`ni 'Y]bYf`Yf\O\hYb
JYf_Y\fgVY`Ughi b[`i bX`GhUi dchYbh]U`"JYf_Y\fghY]`bY\a Yf`g]bX
Ui Z[Yfi ZYbž]\fY; YgW\k]bX][_Y]h`Ubni dUggYb`i bX`j Yfgh\f_h`Ui Z
JYf_Y\fg`Y]hgmghYa Y`ni `UW\hYb"

8]Y'YfghY'[fc»Y'6Ui ghY``Y'VYZ]bXYh'g]W\nk]gW\Yb'XYf

5bgWX`i ggghY``Y`K YggY`]b[`f]) Łi bX`XYf`5bgWX`i ggghY``Y`? Ò`b!
; cXcfZf(\Li bX``Aggh'bi f`Y]bY`a UI]a U`Y`; YgWXk]bX][_Y]h'j cb`, \$
_a #\`ni "'<]Yf`k]fX`Ui Z`Y]bY`8i fWXZU\fhgVfY]hY`j cb`+") \$`a
[YUWXhYh"`9]bY`nk Y]hY`6Ui ghY``Y`nk]gWXYb`K YggY`]b[`i bX`? Ò`b!
FcXYb_]fWXYb`fI L`\Uh'X]Y`[`Y]WXYb
; YgWXk]bX][_Y]hgVY[fYbni b[Yb`i bX`A U»Yb"`8]YgY`5fVY]hYb`g]bX
YVYbZU``g`V]g`ni a '%' "'* b]`&\$&) 'j cf[YgY\Yb"

5_hi Y``Y 9]bgW fÀb_i b[Yb

 $: \varnothing f `\ Yi h Y \check{z} X Y b `) " " \not\Rightarrow b] " \& \$ \&) \check{z} [] `h' Y X c W `Y] b Y `k Y] h Y f Y \check{z} g d Y n] Z] g W Y b `? O`b! F c X Y b _] f W Y b `i b X `? O`b!; c X c f Z k] f X j c b `$ - . $$ "V] g '%) . $$ "I \ f "Y] b `H Y] `V Y f Y] W `X Y f `5))) "[Y g d Y f f h " '8] Y g _ O b b h Y `Z \varnothing f 'j] Y `Y `D Y b X `Y f `i b X `5 i h c Z U \ f Y f `ni `i b `] Y V g U a Y b J Y f n O [Y f i b [Y b `Z \varnothing \ f Y b " K Y f `Y g `Y] `] ["\ U h z g c ``h Y `g] W `V Y g g Y f `b U W U `h Y f b U h J Y b ` f c i h Y b `i a g Y \ Y b "$

- 6Ui ghY``Yb!8YhU]`g.
- 6Ui ghY``Y'%.'5))) ž'5G'K YggY`]b['f]) Ł' '5G'? Ò`b!; cXcfZ'f((Ł'NY]hfUi a .'%%"\$("&\$&) 'V]g'%' "\$*"&\$&)
- 6Ui ghY``Y'&.'5))) ž'5G'K YggY`]b['f) Ł''5G'?Ò`b! FcXYb_]fWXYb'fl Ł''NY]hfUi a .'%%"\$("&\$&)'V]g'%' "\$*"&\$&)
- 6Ui ghY``Y'' .'5))) ž'5G'? O`b!FcXYb_]fWXYb'fl Ł' '5G'? O`b!; cXcfZ'f('Ł' 'NY]hfUi a .') "\$*"&\$&) 'j cb'\$-.\$\$'V]g'%).\$\$ I\f

8]Y'[YgUa hY'A U» bU\a Y'k]fX'g]WX'V]g'ni a '&, "': YVfi Uf'&\$&*
YfghfYW_Ybž'k cVY]'Ui WX'GWXU``gWXi hnUfVY]hYb'Ub'XYb'6Ui ghY``Yb
j cf[YgY\Yb'g]bX"': Øf'j]Y`Y'5bk c\bYf'k]fX'X]Yg'Y]bY'[Yk]ggY
9]bgWXfÀb_i b[']b'XYf'@YVYbgei U`]hÀh'a]h'g]WX'Vf]b[Yb"

$JYf_Y\fgg]WXYfY]h'ibX'AcV]`]hÀh$

5`g`HY]``XYf`A U» bU\a Yb'j YfZc`[h'X]Y`BFK !@UbXYgfY[]Yfi b[`Ui W\X]Y` J]g]cb`NYfc ž'X]Y`XUg`N]Y``\Uhž`]a `GhfU» Ybj Yf_Y\f'_Y]bY HchYb`cXYf`GW\k Yfj Yf`YhnhYb`a Y\f`ni 'j YfnY]W\bYb"`8]Y JYf_Y\fgdc`]h]_`n]Y`h`XUfUi Z`UVž'X]Y`JYf_Y\fgg]W\Yf\Y]h`bUW\\U`h][ni 'ghY][Yfbž'k Ug`Xi fW\X]Y`: ÒfXYfi b['j cb': i »!`i bX`FUXk Y[Yb

gck]Y 'UhhfU_h]j Yb '5 `hYfbUh]j Yb ']a 'ÒZZYbh`]W\Yb 'BU\j Yf_Y\f i bhYfghØhnh'k]fX"'I a k Y`h"bfk '\YVh'\Yfj cfž'XUgg'`c_U`Y '9I dYfhYb \]YfVY]'a U» [YV`]W\Y'I bhYfghØhni b['V]YhYb'gc``Yb"

± XYb '_ca a YbXYb 'A cbUhYb 'k YfXYb 'g]W 'U``Y

J Yf_Y\fghY]`bY\a Yf'Ui Z'bYi Y'D`Ubi b[Yb 'Y]bghY``Yb 'a ØggYb"

8 U\Yf']gh'Y]b '[i hYg' < ÀbXW\Yb ']a 'I a [Ub['a]h'XYb '6 Ui ghY``Yb
i bX'Y]bY'[Yk]ggY'; YXi `X'[YZfU[h"'I bX'j]Y``Y]W\h'Vf]b[h'XYf'Y]bY
cXYf'UbXYfY 'GdUn]Yf[Ub['cXYf'X]Y': U\ffUXZU\fh'UbghY``Y'XYg
5i hcZU\fYbg'XUg'Y]b 'cXYf'UbXYfY 'Dcg]h]j Y'a]h'g]W\"'±b'X]YgYa
G]bbY. 'G]W\Yf'i bX'[Y`UggYb'i bhYfk Y[g'V`Y]VYb"

8 Y hU]`g	
Cfh	K YggY`]b[ž8Yi hgWX`UbX
EiY``Yb	• k k k "bYk g"XY
	• k k k "j Yf_Y\fg`U[Y"XY
	• k k k "i a k Y`h"bfk "XY

6Ygi WXYb G]Y i bg Ui Z a Y]b!_cY`b"bYh