

91 'j YfgWX Yb_h'' * "\$\$\$ 'H]W_Yhg. '9b hX Y W_Y 9i fcdU'_cghYb`cg°

8]Y'9I 'j YfgW\Yb_h'' * "\$\$\$'Ni [h]W_Yhg'ZØf'Y]bY'_cghYb`cgY 9i fcdU!FY]gY'Ub'¾ [YbX`]W\Y"'9bhXYW_Yb'G]Y'?i `hi f'i bX @AbXYf'j cb'¾ `]'V]g'GYdhYa VYf'&\$&*"



8 Yi hgWX`Ub X`!`8]Y`9I!?ca a]gg]cb`\Uh`Ub[Y_ØbX][hž`XUgg`g]Y`]a
_ca a YbXYb`\J\f`' * "\$\$\$`\J\[YbX`]W\Yb`X]Y`A O[`]W_Y]h`V]YhYhž
_cghYb`cg`Xi fW\`9i fcdU`ni `fY]gYb"`8]YgY`\J\]h]Uh]j Y`]gh`HY]``XYg
Dfc[fUa a g` 8]gWcj Yf9I \ \Z`XUg`gY]h`\&\$\%, `VYghY\h`i bX`XUg`N]Y`\Uh\Z`\T\b[Yb`A YbgW\Yb`XUg`_i `hi fY``Y`9fVY`9i fcdUg
b\A\Yfni Vf]b[Yb`i bX`]\bYb`X]Y`; Y`Y[Yb\Y]h`ni `V]YhYb\Z`bYi Y
: fYi bXgW\UZhYb`ni `gW\`]Y\>Yb"

8]Y'FY]gYb'g]bX'ZØf'XYb'NY]hfUi a 'j cb'\$\;\]'V]g'GYdhYa VYf'&\\$\&* [Yd`Ubh"'8]Y'\$\;\[YbX`]W\Yb'_\ObbYb'g]W\'XUVY]'Y]bYb'A cbUh'`Ub[_cghYb`cg'a]h'XYa 'Ni [']b'XYb'hY]`bY\a YbXYb'@\abXYfb'VYk Y[Yb'' @Ui h'fUX]c_cY`b''XY'\UVYb'g]W\'ZØf'X]YgY'5_h]cb'VYfY]hg'ØVYf
*"%\$\$'\f\b[Y'A YbgW\Yb'Ui g'8Yi hgW\`UbX'VYk cfVYbž'k Ug'XUg

@UbX`Ub`X]Y`Gd]hnY`XYf`6YkYfVib[Yb`Vf]b[hž`[YZc`[h'jcb`GdUb]YbibX`Dc`Yb"

HY]`bU\a YVYX]b[i b[Yb i bX 6Yk YfVi b[

±bhYfYgg]YfhY '_ObbYb 'Ybhk YXYf'U``Y]bY'cXYf']b'; fi ddYb'j cb'V]g
ni 'ZØbZ'DYfgcbYb'fY]gYb"'8UVY]'k]fX'XYf'<Ui dhhfUbgdcfh'ØVYf'X]Y
GWX]YbY'cf[Ub]g]Yfhž'k Ug'b]WXh'bi f'i a k Y`hZfYi bX`]WXž'gcbXYfb
Ui WX'Y]bY'A O[`]WX_Y]h']ghž'9i fcdU']b'gY]bYf'J]Y`ZU`h'ni 'Yf`YVYb"
, VYf'X]Y'₺]h]Uh]j Y'k i fXYb'gY]h'&\$%, 'VYfY]hg'')) "\$\$\$'H]W_Yhg
j Yf[YVYbž'i bX'a Y\f'U`g'%ž) 'A]``]cbYb'≯[YbX`]WXY'\UVYb'g]WX
]bg[YgUa h'VYk cfVYb"</pre>

?i`hifY``Y'9fZU\fib[Yb'ibX'JYfbYhnib[

Ni gàhn`]W\ni a `FY]gYdUgg`V]YhYh`XUg`Dfc[fUa a `Ui W\`FUVUhhY
Ui Z'I bhYf_ØbZhY`i bX`_i `hi fY``Y`9]bf]W\hi b[Ybž'k Ug`X]Y`FY]gY`bcW\
UhhfU_h]j Yf`a UW\h"; `Ybb`A]WU``YZž'9I!?ca a]ggUfž'VYgW\fY]Vh`X]Y
HY]`bU\a Y`Ub` 8]gWcj Yf9I `U`g``YVYbgj YfÀbXYfbX"`8]Y`^i b[Yb
FY]gYbXYb`\UVYb`Ui W\XX]Y`A Ò[`]W_Y]hž'Ub`GW\i `i b[Yb`i bX
HfYZZYb'j cf`XYf`5VfY]gY`hY]`ni bY\a Ybži a `g]W\`VYgha Ò[`]W\`Ui Z
]\f`5VYbhYi Yf`j cfni VYfY]hYb"

I a 'g]W\'a]h'; `Y]W\[Yg]bbhYb'Ui gni hUi gW\Ybž'_ObbYb'HY]`bY\a Yf XYf': UW\Vcc_!; fi ddY', 8]gWcj Yf9I 'VY]hfYhYb"8]Yg'ZOfXYfh'X]Y

J YfbYhni b['i bhYf'XYb'\f b[Yb'FY]gYbXYb'i bX'Yfa O[`]W\h'Yg
]\bYbž'9fZU\fi b[Yb'i bX'H]ddg'Ui gni hUi gW\Yb"K Y]hYfY

\(\pu\Zcfa Uh]cbYb'\OVYf'XUg'Dfc[fUa a 'g]bX'Ui Z'XYa '9i fcdA]gW\Yb
\(\frac{1}{2}\) [YbXdcfhU`'j YfZO[VUfž'k c'g]W\'\\\\pu\hYfYgg]YfhY'i a ZUggYbX
]bZcfa]YfYb'_ObbYb"

 $8]Y' + b]h]Uh]j Y' 8]gWcj Yf9I "\YVh'X]Y'6YXYi hi b['j cb] \\]bhYf_i `hi fY``Ya '5i ghUi gW\'i bX'6]`Xi b['\Yfj cf'i bX'V]YhYh \\ \Rightarrow [YbX`]W\Yb'X]Y'gY`hYbY'; Y`Y[Yb\Y]hž'9i fcdU'\Ui hbU\'ni \\ Yf`YVYb"'8]YgY'_cghYb`cgY'FY]gY']gh'b]W\h'bi f'Y]b'5VYbhYi Yfž gcbXYfb'Ui W\'Y]bY'6]`Xi b[gW\UbW\ž'X]Y'X]Y'HY]`bY\a Yf'bi hnYb gc``hYb"$

8 Y hU]`g	
Cfh	8 Yi hgWX`Ub X
EiY``Yb	k k k "fUX]c_cY`b"XY
	• [Yfa Ubm"fYdfYgYbhUh]cb"YWYi fc
	d U"Yi

6Ygi WXYb G]Y i bg Ui Z Y]bY!fY]gY "XY