

8f]b[YbXYfKc\bib[gbchghUbX.')) \$"\$\$\$ Kc\bib[Yb'ZY\`Yb']b'8Yi hgWX`UbX°

6i bXYgk Y]h'ZY\`Yb')) \$"\$\$\$"K c\bi b[Ybž'k À\fYbX 6Ui dfc Y_hY ghU[b]YfYb"'DUfhY]Yb'j YfgÀi a Yb'_`UfY'6Ui n]Y`Y j cf'XYf'K U\`"

8]Y'<YfUi gZcfXYfi b[Yb'Ui Z'XYa 'K c\bi b[ga Uf_h'g]bX'j]Y'ZÀ`h][" =a '\logbrack \f'\&\s\('k i fXYb'j cfUi gg]\W\h`]\W\'bi f'\&\) \\$"\\$\\$'K c\bi b[Yb ZYfh][[YghY``hž'Y]b'K Yfhž'XYf'k Y]h'\]bhYf'XYb'Ub[YghfYVhYb'N]Y`Yb ni f\(\text{OW_V'Y}\)Vh"'I a '\text{XYb'6YXUfZ'ni '\text{XYW_Ybž'}gh'Yg'bchk YbX][\text{\fi} a]b\text{XYghYbg'\&'A} \]``]cbYb'Gcn]U`k c\bi b[Yb'V]g'\&\s\'\\$' \\$'ni 'g\W\UZZYb'' \\ 5_hi Y```a \text{\gammaggYb'X}]Y'j cf\Ub\XYbYb'Gcn]U`k c\bi b[Yb'bU\Yni j Yf\text{\gammadgYb'\fi} \footnote{\fi} \] \\ \footnote{\fi

9]bZiggYlhYfbYf:U_hcfYb

Ni gàm`]W\ni f`]bhYfbYb`A Uf_hXmbUa]_'k]fX`XYf`K c\bi b[gVUi Ui W\j cb`YI hYfbYb`: U_hcfYb`VYY]bZi ggh"8Yf`fi gg]gW\Y`5b[f]ZZ Ui Z`X]Y`I _fU]bY`\Uh`ni `[Ygh]Y[YbYb`N]bgYb`i bX`6Ui _cghYb [YZØ\fhž'k Ug`XYb`K c\bi b[gbYi VUi `Yf\YV`]W\`YfgW\k Yfh" 5``YfX]b[g`\UVYb`X]Y`6Ui n]bgYb`gY]h`]\fya `< OW\ghghUbX`]a < YfVgh\&\&' `XYi h`]W\`bUW\[Y`UggYb"'Hfchn`X]YgYf < YfUi gZcfXYfi b[Yb`nY][h`XYf`5bgh]Y[bYi Yf`<mdch\Y_Yb! 5VgW\`ØggYž`XUgg`X]Y`:]bUbn]Yfi b[Yb`ni bY\a Yb`i bX`gca]h`Y]b [Yk]ggYf`GW\ki b[jb`XYb`K c\bi b[ga Uf_hni fØW_Y\fh"Ghi X]Yb nY][Ybž`XUgg`XYf`K c\bi b[gVUi `&\&\aanalon a Yb`\UhhYž`[YZc`[hj cb K]fbW\UZhgVUi `i bX`OZZYbh`]W\Ya `6Ui"

 $6Yn\emptyset[\ `]WX `XYf'fY[\]cbU`Yb'I bhYfgWX]YXY']gh'ZYghni ghY``YbZ'XUgg A Yhfcdc`Yb'k UWXgYbZ'k A\fYbX'ghfi _hi fgWX k UWXY'FY[\]cbYb FØW_[\ Ab[\ Y'j YfnY]WXbYb'''8]Yg'_\ObbhY'Xi fWX'X]Y'Ni k UbXYfi b[\ Z']bgVYgcbXYfY'j cb'[\ YZ\ØWXhYhYb'\DYfgcbYb'\Ui g'XYf'I _fU]bYZ' [Ya]`XYfh'k YfXYb'''8]YgY'Ni k UbXYfi b[\ 'ghY``h'Y]bY'7\UbW''XUfZ' X]Y'6Yj \O`_Yfi b[\ 'VYggYf'ni 'j YfhY]`Yb'i bX'a \O[`]WXYfk Y]gY'\Ui WXXYb'8fi \W_\Ui Z'\ØVYf`\UghYhY'\=\alpha a cV]`]Yba \Af_hY'\ni 'j Yff]b[\ Yfb'' \Hfchn'XYf'ghY][\ YbXYb'A]Yh_cghYb']b'i fVUbYb'6U``i b[\ gf\Ai a Yb\ V`Y]VYb'X]Y'A]YhYb']b'k Yb][\ Yf'bUWX[\ YZfU[\ hYb';\ YV]YhYb'fY`\Uh]j b]YXf]['''$

I bhYfghØhni b[ga U»bU\a Yb XYf 6i bXYgfY[]Yfi b[

8]Y'6i bXYgfY[]Yfi b['\Uh'j YfgW\]YXYbY'A U» bU\a Yb'Yf[f]ZZYbž
i a 'XYb'K c\bi b[gVUi 'ni 'i bhYfghØhnYb"': Øf'XYb'NY]hfUi a 'j cb
&\$&&'V]g'&\$&+'k YfXYb']bg[YgUa h'%, ž%) 'A]``]UfXYb'9i fc
VYfY]h[YghY``hži a 'gcn]U`Yb'i bX'VYnU\`VUfYb'K c\bfUi a 'ni
gW\UZZYbži bhYfghØhnh'Xi fW\'Z]bUbn]Y``Y'<]`ZYb'XYf'@AbXYf"'=a '\\J\f
&\$&&'k i fXYb'fi bX'(ž('DfcnYbh'a Y\f'BYi VUi!
Gcn]U`a]Yhk c\bi b[Yb'VYk]``][h'U`g']a 'Jcf'U\fž'k Ug'Y]b'dcg]h]j Yg
G][bU``ZØf'X]Y'GW\UZZi b['j cb'K c\bfUi a 'XUfghY``h"'8YbbcW\'V`Y]Vh

XYf^6YghUbX^[YVibXYbYf^A]Yhkc\bib[Yb^]b^8YihgW\`UbX^gY]h \$U\fYb^fØW_`ÀiZ][ž'kUg^X]Y^DfcV`YaUh]_^kY]hYf^jYfghÀf_h"^

8]Y'Ub\U`hYbXY'8]g_fYdUbn'nk]gW\Yb'K c\bfUi a VYXUfZ'i bX!Ub[YVch'a i gg'Xf]b[YbX'UXfYgg]Yfh'k YfXYbž'i a 'X]Y
K c\bi b[gbch']b'8Yi hgW\`UbX'bUW\\U`h]['ni 'VY_Àa dZYb"'8]Y
Gcf[Yb'XYf'6Yj Ò`_Yfi b['i bX'XYf'6Ui j YfVÀbXY'YfZcfXYfb
gcZcfh][Y'A U» bU\a Yb'i bX'hfUbgdUfYbhY'Ni gU[Yb'j cb'GY]hYb'XYf
Dc`]h]_ž'i a 'X]Y'K Y]W\Yb'ZØf'Y]bY'dcg]h]j Y'9bhk]W_`i b['Ui Z'XYa
K c\bi b[ga Uf_h'ni 'ghY``Yb"

: Øf`XYhU]``]YfhYfY` ⊕ Zcfa Uh]cbYb`ni `XYb`U_hi Y``Yb
K c\bi b[ga Uf_hXUhYb`i bX`XYb`< YfUi gZcfXYfi b[Ybž`X]Y`a]h`XYa
K c\bi b[gVUi 'j YfVi bXYb'g]bXž`Z]bXYb`G]Y`k Y]hYfY`<]bk Y]gY`]a
6Yf]W\h'j cb`A Yf_i f`gck]Y`Ui Z'XYf`GY]hY`XYg`
6i bXYga]b]ghYf]i a g`ZØf`K c\bYbž`GhUXhYbhk]W_`i b['i bX
6Ui k YgYb"</pre>

8 Y hU]`g	
Cfh	8 Yi hgWX`UbX
EiY``Yb	• k k k "a Yf_i f"XY
	• k k k "Va k gV"Vi bX"XY

6Ygi WXYb G]Y i bg Ui Z b!U["XY