

Di hYb_`U[Y. H]YfgW\i hncf[Ub]gUh]cbYb ZcfXYfb 9bXY XYf A UggYbh]Yf\U`hi b[

9fZU\fYb'G]Y']b'i bgYfYa '5fh]_Y'ž'k]Y'X]Y
Di hYbj YfVUbXg_`U[Y'j cb'H]YfgW\i hncf[Ub]gUh]cbYb'[Y[Yb X]Y'dfcV`Ya Uh]gW\Yb'< U`hi b[gVYX]b[i b[Yb']b'XYf
XYi hgW\Yb'Di hYba Ugh'j cf'XYa 'JYfk U`hi b[g[Yf]W\hg\cZ
A Ubb\Y]a 'X]g_i h]Yfh'k]fX"'8]Y'?`U[Y'n]Y`h'XUfUi Z'UVž'X]Y
h]YfZY]bX`]W\Y'DfUI]g'XYf', VYfnØW\hi b['i bX'E i U`\U`hi b[
[YgYhn`]W\ni 'ØVYfdfØZYb"'@YgYb'G]Y'a Y\f'ØVYf'X]Y
<YfUi qZcfXYfi b[Yb'i bX'5i qk]f_i b[Yb'ZØf'XYb'H]YfgW\i hn"



5i ZVY[Y\fYb'[Y[Yb'X]Y'Di hYba Ugh' 'Y]b'; Yf]W\h'I fhY]`ž XUg'K Y``Yb'gW\`À[h°

VYfnØWXhi b['j Yfghc»Yb'[Y[Yb'XUg'H]YfgWXi hn[YgYhn"'9]b
a i h][Yf'GWXf]hh'ZØf'X]Y'H]YfY°

 $8 c W X]Y' < YfUi gZcfXYfi b[']gh'[fc "'8 Yf' J Yfk U`hi b[g[Yf]Wk hg \ cZf] Y < \xi']b'A Ubb \ Y]a 'gh]a a hY']a 'A Àfn' & $&('XYb'5f[i a YbhYb'XYfH]YfgWk ØhnYf' ØVYfk]Y[YbX'ni "'8]Yg'_ObbhY' XYb'K Y['ZØf'Y]bY [fi bX`Y[YbXY'FYZcfa 'XYf'Di hYb \ U`hi b['YVbYbž' UVYf'b]Wk h'U``YDi b_hY'k i fXYb'YfZc`[fY]Wk'Ub[YZcWk hYb"' <math>\pm$ bgVYgcbXYfY'X]Y 6Y\Ui dhi b[ž'XUgg'X]Y'Ua '\Ài Z][ghYb'[YnØWk hYhYb'Di hYb`]b]Yb Ei U`ni Wk hYb'g]bXž'V`]YV'V]g'Yhnh'i bYf_Ubbh'' \$ \]

8 Ug``Y]X][Y'H\Ya U'XYf'H]YfgW\i hnghUbXUfXg

 $8 \ Yf': c_i g'XYf'?`U[Y']gh'Y]b'_cb_fYhYf'6Yhf]YV']a '?fY]g \\ GWk ÅV]gWk'<U``'''<]Yf'k i fXYb'X]Y'<U`hi b[gVYX]b[i b[Yb'j cand ghÀbX][Yb'JYhYf]bÀfUa h'U`g' [i hY'Di hYb\U`hi b['Y]b[Yghi Zh' Y]b'I fhY]`ž'XUg'X]Y'H]YfgWki hncf[Ub]gUh]cbYb'U`g'ZfU[k ØfX][YfUWkhYb''8]Y'j cb'XYf'; YZØ[Y`]bXi ghf]Y'[YgYhnhYb'GhUbXUfXgVYfØW_g]Wkh][Yb'b]Wkh'X]Y'YWkhYb'6YXØfZb]ggY'XYf'H]YfY''8Yf'J; < A Ubb\Y]a 'Yf_Ybbh'X]Yg'i bX'VYnY]WkbYh'X]Y'XYfnY]h][Y'DfUl]g'U`gb]Wkh'Ufh[YfYWkh''$

8]Y`NU\`Yb`gdfYW\Yb`6ÀbXY.`Ni 'j]Y`Y`H]YfY``YVYb`Ui Z`ni '_`Y]bYa F Ui a ž'c\bY`X]Y`bÒh][Yb`FØW_ni [ga Ò[`]W_Y]hYb"\8]Yg`ZØ\fh`ni j Yf\YYfYbXYb`?cbgYei YbnYb`k]Y`?Ubb]VU`]ga i g`i bX gW\a Yfn\UZhYb`J Yf`Yhni b[Yb"\9]b`VYgW\\\Aa YbXYg`6]`X`ZØf`X]Y Di hYb\U`hi b[`]b`8Yi hgW\`UbX°`K Ug`X]Y`Ni W\h`UbVY`Ub[hž`k]fX bcW\`gW\`]a a Yf.`8]Y`Di hYb`k UW\gYb`gc`gW\bY``ž'XUgg`g]Y XUfi bhYf``Y]XYb"`A \\Abb`]W\Y`H]YfY`XYf`\\\\Ai Z][ghYb`Ni W\h`]b]Y 6"I "H"`* \`YffY]W\Yb`V]bbYb`\&%`K cW\Yb`Y]b`; Yk]W\h'j cb`\&\\\\z)'_[\Y]bY`\\VYf`Ughi b[\z`X]Y`j]Y`Y`H]YfY`b]W\h'ØVYfghY\Yb"

8]YgY [fUi gUa Yb'<U`hi b[gVYX]b[i b[Yb'_ObbhYb'g]W\'Xi fW\'Y]b
f]W\hi b[gk Y]gYbXYg'I fhY]`'AbXYfb.'9]b'JYfVch'XYf
_cbj Ybh]cbY``Yb'Di hYb\U`hi b['_ObbhY'Ui Z'XYf'HU[YgcfXbi b[
ghY\Yb°'8Yf'J; < 'k c``hY''YXcW\'_Y]bY'fUX]_U`Yb'A U» bU\a Yb
Yf[fY]ZYb'i bX'cfXbYhY'`YX][`]W\'Y]bY'BYi VYk Yfhi b['Ub"'5i W\'X]Y
ZfU[k ØfX][Y'DfUl]g'XYg'? ØfnYbg'j cb'GW\bAVY`b'V`Y]Vh'k Y]hYf\]b

8]Y bàWkghY Fi bXY]a H]YfgWki hn_Ua dZ

8 UgʻGd]Y`Yf[YVb]gʻghY\hʻbcW\ʻb]W\h'ZYgh"·8]Y
H]YfgW\i hncf[Ub]gUh]cbYbž'XUgʻJYhYf]bÀfUa hʻi bXʻXYf
Di hYba ÀghYfʻ\UVYbʻ6YgW\k YfXYʻY]b[Y`Y[hi bXʻZcfXYfbʻY]bY
FYj]g]cbʻXYgʻI fhY]`g"'->\hnh``]Y[hʻYgʻUa ʻ6i bXYgj Yfk U`hi b[g[Yf]W\h
ni ʻYbhgW\Y]XYbžʻcVʻX]YgYʻFYj]g]cbʻni [Y`UggYbʻk]fX"·8]Y
9bhgW\Y]Xi b['k]fXʻYbhgW\Y]XYbXʻgY]bʻZØfʻX]YʻNi _i bZhʻXYf
H]YffYW\hYʻi bXʻ_ObbhYʻXUgʻGW\]W_gU``hUi gYbXYfʻDi hYb
[fi bX`Y[YbX`VYY]bZi ggYb°

$< c \, ZZY \, b \, \, `Ui \, Z \, `J \, Y \, f \, \grave{A} \, b \, X \, Y \, f \, i \, \, b \, [\, \, \dot{} \, \, \, `X \,]Y \, \, `H] Y \, fg \, W\!\! \, \mathcal{Q} \, hn \, Y \, f \, `g] \, b \, X \, \, `V \, Y \, f \, Y \,]h^\circ$

A YbgWX Yb ZØf H]YffYWX hY 6UXYb!K ØfhhYa VYf['Y"'J "']gh gY]h %-, 'Y]bY Gh]a a Y ZØf X]Y H]YfY i bX _ Àa d Zh [Y[Yb XUg @Y]XYb ']b XYf A UggYbh]Yf\U`hi b["'; Ya Y]bgUa 'a]h XYf 5`VYfh GWX k Y]hnYf Gh]Zhi b[ž X]Y g]WX YVYb ZU``g [Y[Yb X]Y A UggYbd fc Xi _h]cb 'j cb H]YfYb 'Y]bgYhnhž g]bX g]Y '? f]Y[Yf XYg H]YfgWXi hnYg i bX k YfXYb b]WX h Ui Z[YVYbž V]g X]Y 6YX]b[i b[Yb ZØf X]Y Di hYb 'j YfVYggYfh k YfXYb"

8 Y f ?? Ua d Z i a 'X]Y F Y W hY 'XY f 'H]Y f Y ']gh 'b c W '`Ub [Y 'b]W h'j c f V Y]ž i b X 'X Ug '9 W c 'X]Y g Y f '? `U [Y '_Ob b h Y 'k Y]h f Y]W Y b X Y : c `[Y b 'ZØ f 'X]Y [Y g Ua h Y 'H]Y f \ U `hi b [']b '8 Y i hg W `Ub X '\ UV Y b " '8 Ug 'D i V `]_i a ']gh Ui Z[Y f i Z Y b ž 'g]W 'ZØ f 'X]Y 'H]Y f Y 'Y]b n i g Y h n Y b 'i b X 'X Y b 'H]Y f g W i h n '] b g F Ua d Y b `]W h n i 'f Ø W Y b "

.

8 YhU]`g