

J Yf_Y\fgi bZU```]b 'GdfYbX`]b[Yb. '?]bX'Ui Z : U\ffUX'j YfgWk]bXYh'bUWk'?c``]g]cb

NYi [Yb'[Ygi Wkh'JYf_Y\fgi bZU``']b'GdfYbX`]b[Yb'nk]gWkYb D? K'i bX'Y]bYa'?]bX'Ui Z': U\ffUX"'<]bk Y]gY'Ub'Dc`]nY] 6]b[Yb'YfVYhYb"

9]b 'J Yf_Y\fgi b ZU```gcf[hY 'Ua '&%"' 5i [i gh'&\$&('ZØf' 5i ZgY\Yb']b GdfYbX`]b[Ybž'U`g'Y]b'?]bXž'XUg'Ui Z'Y]bYa ': U\ffUX'i bhYfk Y[g k Ufž'a]h'Y]bYa 'D? K '_c``]X]YfhY'''; Y[Yb'%&. &\$'I \f'YfY][bYhY'g]W\XUg'9fY][b]g']b 'XYf'?fYi nbUW\Yf'GhfU» Yž'k c 'XUg'gW\Ahni b[gk Y]gY, 'V]g'%\$'\\J\fY'U`hY'?]bX'cZZYbVUf'ghØfnhY''8]Y'I a ghÀbXY'XYg J cfZU``g'k YfZYb': fU[Yb'Ui Zž']bgVYgcbXYfY'k Y]`'XUg'?]bX'bUW\XYa 'J cfZU```gW\bY``X]Y': `i W\h'Yf[f]ZZ'

8 Y f ' I b ZU ` ` \ Y f [U b [']a '8 Y h U] `

 $8]Y'_`Y]bY'?c``]g]cb`YfY][bYhY'g]WX'cZZYbVUf'_i fn'[Ybi[žXUgg_Y]bY'Yfbgh\UZhYb'JYf`Yhni b[Yb'ni fØW_V`]YVYbž'XcWX'X]Y ib_cbj Ybh]cbY``Y'FYU_h]cb'XYg'?]bXYg'j YfghÀf_h'XYb'9]bXfi W_ž XUgg'a <math>O[`]WXYfk Y]gY'a Y\f'X]YgYa 'JcfZU```ni [fi bXY'`]Y[h' K Ufi a 'YbhgWX]YX'g]WX'XUg'?]bXž'gcZcfh'ni 'Z]Y\Yb3'K Uf'Yg'5b[gh cXYf'I bj YfghÀbXb]g3'8]YgY': <math>fU[Yb'_ObbhYb'ZOfX]Y$ cfXbi b[g[Ya À $_Y$ Y'5i Z_`Àfi b['XYg'Ni [f]ZZg'Xi fWX'X]Y'Dc`]nY]

8]Y 'Dc`]nY] ']b '6]b[Yb'\Uh'VYfY]hg'Y]bYb'5i Zfi Z'[YghUfhYhž'i a <]bk Y]gY'ni 'XYa '?]bX'ni 'Yf\U`hYbž'XUg']b'XYb'I bZU``'j Yfk]\www.Y`h k Uf" '9g']gh'YggYbh]Y``ž'XUgg'NYi [Ybž'X]Y'XYb'JcfZU``'VYa Yf_h \UVYbž'g]\www.a Y`XYb"'Gc`\wwy'G]hi Uh]cbYb'_\ObbYb'cZha U`g i bYfk UfhYhY'K YbXi b[Yb'bY\a Ybž'i bX'Y]bY'? 'Àfi b['_\ObbhY gck c\``XYa :: U\fYf'U`g'Ui \www.XYa '?]bX'\Y`ZYbž'X]Y'G]hi Uh]cb VYggYf'ni 'j YfghY\Yb"

$K \]WX h][\ \underline{Y}]h \ XYf \ NYi \ [\ Yb$

8 Yf 5 i Zfi Z'bUW 'NYi [Yb']gh'b]W h'bi f'Y]bY: cfa U`]hÀh/'Yg']gh'Y]bY
A Ò[`]W _Y]hžX]Y 'G]W Yf\Y]h']a 'GhfU» Ybj Yf_Y\f'j cfUbni Vf]b[Yb"

XYYfžXYf']b 'XYf'BÀ\Y'k Uf'i bX'Yhk Ug'[YgY\Yb'\Uhž'_ObbhY
k]W h][Y' + Zcfa Uh]cbYb'V]YhYbž'X]Y'ni f'5 i Z_`Àfi b['XYg'J cfZU``g
VY]hfU[Yb'k ØfXYb"' + gVYgcbXYfY']b'Y]bYa 'I a ZY`Xž'k c'?]bXYf'cZh
a]h': U\ffÀXYfb'i bhYfk Y[g'g]bXž']gh'Yg'k]W h][ž'XUgg
J Yf_Y\fghY]`bY\a Yf'Ui Za Yf_gUa 'g]bX'i bX'Ui ZY]bUbXYf'FØW_g]W h
bY\a Yb"

8]Y'6Y\ÒfXYb'fUhYb'XYb'6Øf[Yfb'ghYhg'XUni ž']b'G]hi Uh]cbYb'k]YX]YgYb'XYb'Aih'ni '\UVYbž'g]W\ni 'a Y`XYb"'8Ug'_Ubb'XUni VY]hfU[Ybž'X]Y'FYW\ha À»][_Y]h'XYf'5V`Ài ZY'ni '_`ÀfYb'i bXg]W\Yfni ghY``Ybž'XUgg'gc`W\Y'Jcf_ca a b]ggY'b]W\h'Y]bZUW\']aFUi a 'ghY\Yb'V`Y]VYb"

JYf_Y\fgi bZÀ``Yž'Ui W\`gc`W\Yž'X]Y`Ui Z'XYb`YfghYb`6`]W_`k Yb][Yf
[fUj]YfYbX`YfgW\Y]bYbž\UVYb`XUg`DchYbn]U`ž'k Y]hfY]W\YbXY
?cbgYei YbnYb`ni `\UVYb"`8]Y`I bVY_Øa a Yfh\Y]hž'a]h`XYf`?]bXYf
cZh`FUX`ZU\fYbž'_Ubb`]b`YfgW\fYW_YbXYb`A ca YbhYb`]b`XUg
; Y[YbhY]``i a gW\`U[Ybž'k Ybb`g]Y`a]h`: U\fnYi [Yb`]b`6YfØ\fi b[
ca a Yb"`9]bY`5i Z`Àfi b[`XYg`J cfZU``g`_ÒbbhY`b]W\h`bi f`XYf
VYhfcZZYbYb`: Ua]`]Yž'gcbXYfb`Ui W\`UbXYfYb`JYf_Y\fghY]`bY\a Yfb
\Y`ZYbž'Ui g`XYf`G]hi Uh]cb`ni ``YfbYb"

±b i bgYfYf; YgY``gW\UZh`]gh`Yg`j cb YbhgW\Y]XYbXYf`6YXYi hi b[ž XUgg`k]f`Y]bUbXYf`i bhYfghØhnYb`i bX`\Y`ZYbž`]bgVYgcbXYfY`]b

BchZU``g]hi Uh]cbYb'cXYf'bUW\`I bZÀ``Yb"'8Ug'j cf`]Y[YbXY'9fY][b]g []Vh'5b`Ugg'ni f'8]g_i gg]cb'ØVYf'X]Y'JYfUbhk cfhi b[ž'X]Y'U``Y JYf_Y\fghY]`bY\a Yf'hfU[Ybži a 'X]Y'G]W\Yf\Y]hž']bgVYgcbXYfY'j cb?]bXYfbž'ni '[Yk À\f`Y]ghYb"

8 Yf'J cfZU```]b'GdfYbX`]b[Yb'a i gg'U`g'6Y]gd]Y``XUZØf'X]YbYbž'k]Y k]W\h]['Yg']ghž'Ui Za Yf_gUa 'ni 'gY]b'i bX'U``Y'I a ghÀbXY'ni VYUW\hYbž'X]Y'g]W\']a 'GhfU\'Ybj Yf_Y\f'UVgd]Y`Yb'''9g'`]Y[h'Ub'i bg U``Ybž'Y]bY'g]W\YfYfY'I a [YVi b['ni 'gW\UZZYbž']b'XYf'?]bXYf i bVYgcf[h'ZU\fYb'_ObbYbž'c\bY'5b[gh'j cf'?c``]g]cbYb'\UVYb'ni a ØggYb'''8 Ug'J YfghÀbXb]g'i bX'X]Y'Ni gUa a YbUfVY]h'XYf ; Ya Y]bgW\UZh'_ObbYb'YbhgW\Y]XYbX'XUf]b'gY]bž'Y]bYb'dcg]h]j Yb K UbXY``\YfVY]ni ZØ\fYb"

$JYf_Y\fgg]WXYfY]h^*ZØf^?]bXYf$

Ni f'J YfVYggYfi b['XYf'J Yf_Y\fgg]W\Yf\Y]h'ZØf'?]bXYf'k YfXYb
j YfgW\]YXYbY'A U» bU\a Yb'Yf[f]ZZYb"'8 Uni '[Y\ÒfYb'X]Y
9]bZØ\fi b['j cb'J Yf_Y\fgYfn]Y\i b[']b'GW\i 'Ybž'X]Y'Cf[Ub]gUh]cb
j cb'G]W\Yf\Y]hghfU]b]b['ZØf'?]bXYfž'gck]Y'X]Y'GW\UZZi b['g]W\YfYf
J Yf_Y\fgVYX]b[i b[Yb'Xi fW\'X]Y'; YghU'hi b['j Yf_Y\fgVYfi \][hYf
NcbYb"

GhUh]gh]_Yb ni 'J Yf_Y\fgi bZÀ``Yb

@Ui h'XYa 'GhUh]gh]gW\Yb '6i bXYgUa h'k i fXYb']a '\\\f'&\\$\\']b 8 Yi hgW\`UbX']bg[YgUa h'Yhk U'&\Z\A]``]cbYb'JYf_Y\fgi bZ\\``Y fY[]ghf]YfhžkcVY]?]bXYfiibhYfi%) '*J\fYb'Ub'fibX'' "%\$\$'IbZÀ``YbVYhY]`][h'kUfYb"'8]YgY'NU\`Yb'jYfXYih`]W\Yb'X]Y'BchkYbX][_Y]hZØfY]bY'jYfghÀf_hY'5iZ_`Àfib['ibX'G]W\Yf\Y]hgaU»bU\aYbžia?]bXYfini'gW\ØhnYb"'6YgcbXYfg'\ÀiZ]['hfYhYb'IbZÀ``Y']bKc\b[YV]YhYb'cXYf']b'XYf'BÀ\Y'jcb'GW\i`Yb'UiZžkc'?]bXYf'cZha]h':U\ffÀXYfb'ibhYfkY[g'g]bX"

 $8]Y'JYf_Y\backslash fgi bZJ``ghUh]gh]_`nY][hž`XUgg`?]bXYf`VYgcbXYfg [YZÀ\fXYh`g]bXž`k Ybb`g]Y`b]Wkh`X]Y`f]Wkh][Y`5i gghUhhi b[ž`k]Y < Y`a Y`cXYf`fYZY_h]YfYbXY`?`Y]Xi b[ž`hfU[Yb"`8i fWk`X]Y JYfk YbXi b['j cb`G]WkYf\Y]hg\Y`a Yb`_Ubb`XUg`F]g]_c`gWk YfYf?cdZj Yf`Yhni b[Yb`Yf\YV`]Wk`fYXi n]Yfh`k YfXYbž`k Ug`j]Y`Y Cf[Ub]gUh]cbYbž`k]Y`Yhk U`X]Y`K cf`X`<YU`h\`Cf[Ub]nUh]cb fK < C Łž`VYghÀbX]['dfcdU[]YfYb"$

8 Y hU]`g

6 Ygi WX Yb 'G]Y 'i bg 'Ui Z 'b!U["XY