

A i g]_h\YUhYf]b 7\Ya b]hn. 9]b a cXYfbYg Cfd\Yi g!9f`YVb]g]a 'CdYfb\Ui g

8]Y'H\YUhYf`UbXgW\UZh']b'8Yi hgW\`UbX'nY][h'g]W\']a 'GYdhYa VYf &\$&('VYgcbXYfg'j']Y`ZÀ`h]['i bX'Y]b`UXYbX"'±b'GhÀXhYb'k]Y 7\Ya b]hnž'Nk]W_Ui 'i bX'D`Ui Yb'k]fX'b]W\h'bi f'Ui Z'XYb'6fYhhYfbž X]Y'X]Y'K Y`h'VYXYi hYbž'_`Ugg]gW\Yg'i bX'a cXYfbYg'FYdYfhc]fY [YVchYbž'gcbXYfb'Ui W\']bbcj Uh]j Y'±bgnYb]Yfi b[Ybž'X]Y'XUg Di V`]_i a 'Ui Z'bYi Y'i bX'i bYfk UfhYhY'K Y]gY'Y]bVYn]Y\Yb"'8]Y 5i gk U\`'fY]W\h'j cb'CdYfYhhY'ØVYf'GW\Ui gd]Y`'V]g'\]b'ni Ui ZfY[YbXYb']bhYfU_h]j Yb': cfa UhYb"

=bhYfU_h]j Y '9f`YVb]ggY ']a 'Nk]W_Ui Yf '5i [i gh!
< cfW.!A i gYi a</pre>

 $\pm 0.0 \text{ Nk }] \underline{W}_{\underline{U}} \text{ i } \underline{Z} \text{ b } \underline{X} \text{ h } \underline{X} \text{ ug } \text{ H}_{\underline{Y}} \text{ Uh } \underline{Y} \text{ f } \text{ b } \underline{W}_{\underline{U}} \text{ n } \text{ i } \text{ b } \underline{Z} \text{ h } \text{ i } \underline{X} \text{ Y} \text{ l } \text{ i } \text{ b } \underline{Z} \text{ h } \text{ i } \underline{X} \text{ Y} \text{ l } \text{ i } \text{ b } \underline{Z} \text{ h } \text{ i } \text{ i } \text{ b } \underline{Z} \text{ h } \text{ i } \text{ l } \text{ i } \text{ g } \text{ l } \text{ i } \text{ g } \text{ l } \text{ i } \text{ g } \text{ l } \text{ i } \text{ g } \text{ l } \text$

HfUX]h]cbY``Y`i bX`a cXYfbY`=bhYfdfYhUh]cbYb]b`5bbUVYf[!6i W\\c`n

± XYf'Fi Vf]_'hfUX]h]cbY``Yg'H\YUhYf'Z]bXYh'g]W\']b'5bbUVYf[!
6i W\\c`n'X]Y'CdYfYhhY' 8Yf'JYhhYf'jcb'8]b[gXU "'8]Y

± gnYb]Yfi b['_ca V]b]Yfh'@]jY!; YgUb['a]h'Di ddYbgd]Y``i bX
gW\UZZh'XUa]h'Y]bY'Y][YbghÀbX][Y'8UfghY``i b[gZcfa ž'X]Y
5``Y[cf]Yb'ZØf'6Yn]Y\i b[gZfU[Yb'Ui Z'\i a cfj c``Y'K Y]gY
h\YaUh]g]Yfh"'8Yf'?f]h]_Yf'HcfghYb'?c\`gW\Y]b'`cVh'X]Y'[Y`i b[YbYJYfV]bXi b['Ui g'A i g]_'i bX'Di ddYbgd]Y``U`g' ZUbhUgh]gW\"'8]YgYf
]bbcj Uh]j Y'5bgUhn'nY][hž'XUgg'_`Ugg]gW\Y'K Yf_Y'Ui W\'\Yi hY'bcW\Y]bYb'D`Uhn'Ui Z'XYf'6Ø\bY'Z]bXYb'_ObbYb"

9VYbZU``gʻ]bʻD`Ui Ybʻi bXʻNk]W_Ui ʻk]fXʻa]hʻ D]bcWW]c ʻY]bʻ6U``Yhh Ui Z[YZØ\fhžʻXUgʻX]YʻVYfØ\a hYʻ; YgW]WW hYʻXYgʻ_`Y]bYb Di ddYbʻi b[YbʻbYi ʻ]bhYfdfYh]Yfh" 8]YgYʻa ÀfWW Yb\UZhY =bgnYb]Yfi b['j YfV]bXYhʻHUbnʻa]hʻ9fnÀ\`_i bghʻi bXʻV]YhYhʻY]bY

A]gWXi b['Ui g'GdUbbi b[ž'K]hn'i bX'Ya ch]cbU`Yb'A ca YbhYbž'X]Y $Z\emptyset f' \not\Rightarrow b[\text{ ii bX'5`h'UbgdfYW}, YbX']gh''?f]h]_Yf'H\ca Ug'7fcm'\YVh\Yfj cfž'XUgg'X]Y'8 UfV]Yhi b['Y]b'; Ybi gg'Z<math>\emptyset f'$ X]Y'5i [Ybž'C\fYb i bX'<YfnYb 'XUfghY``hž'k Ug'X]Y'Ub\U`hYbXY'5bn]Y\i b[g_fUZh'j cb 7 Uf`c'7c``cX]g'7\UfU_hYf'i bhYf'6Yk Y]g'ghY``h''

9]b 6`]W_ Ui Z'X]Y H\ YUhYf`Ub XgW\ UZh

A]h'Y]bYa 'UVk YWkg'i b[gfY]WkYb'Dfc[fUa a ']a 'GYdhYa VYf'nY][h g]WkžXUgg'X]Y'H\YUhYf']b'7\Ya b]hnž'Nk]W_Ui 'i bX'D'Ui Yb'k Y]hUi g a Y\f'U`g'bi f'I bhYf\U`hi b['V]YhYb/'g]Y'g]bX'CfhY'XYf'FYZYI]cb i bX'XYg'8]U`c[g"'8i fWk']bhYfU_h]j Y'9`Ya YbhY'i bX'a cXYfbY \disphYfdfYhUh]cbYb'_``Ugg]gWkYf'K Yf_Y'k]fX'XUg'H\YUhYf'ni 'Y]bYa `YVYbX][Yb'FUi a ž']b'XYa 'XUg'Di V`]_i a 'U_h]j 'HY]`XYg ; YgWkY\Ybg'k]fX''8]Y'j YfgWk]YXYbYb'DfcXi _h]cbYb'V]YhYb'b]Wkh bi f'Y]bYb'6`]W_']b'X]Y'JYf[Ub[Yb\Y]hž'gcbXYfb'`UXYb'Ui Wk'XUni Y]bž'_f]h]gWk'ØVYf'X]Y'; Y[Ybk Ufh'bUWkni XYb_Yb'i bX'J]g]cbYb'ZØf X]Y'Ni _i bZh'ni 'Ybhk]W_Y`b"

<]bhYf[fi bX]bZcfa Uh]cbYb ni 'XYb =bgnYb]Yfi b[Yb</pre>

8]Y ** gnYb]Yfi b[YbžX]Y *]b *XYb *H\YUhYfb *j cb *7\Ya b]hnž Nk]W_Ui ž D`Ui Yb *i bX *5bbUVYf[!6i W\c`n *Ui Z[YZØ\fh'k YfXYbž*gd]Y[Y`b b]W\h'bi f *XUg *_ Øbgh`Yf]gW\Y *GW\UZZYb *XYf *Yk Y]`][Yb *NY]h'k]XYfž gcbXYfb *g]bX *Ui W\ *ghUf_**j cb *gcn]U`Yb *i bX *dc *]h]gW\Yb *? cbhYl hYb VYY]bZi ggh" *JUWei Yg *C ZZYbVUW\g *C fd\Yi g *]b *XYf*I bhYfk Y`h YbhghUbX*]a *%- "*JU\f\i bXYfhi bXyfhi bX *ghY``hY*nY]h[Ya À» Y [YgY``gW\UZh`]W\Y *B cfa Yb *]b *: fU[Y" *9g *h\Ya Uh]g]Yfh *X]Y 6Yn]Y\i b[*nk]gW\Yb *A YbgW*i bX*; chhž*gck c\``Yfbgh\UZh*U`g*Ui W\]fcb]gW\Zh*U`hY*i bX hYh *X]Y *< Yi W\Y`Y] *XYf*; YgY``gW\UZh" *8]Y a cXYfbY*BYi]bhYfdfYhUh]cb *j cb *&\UbbYg*DO`n[i hhYf*nY][hž*k]Y nY]h[YbOgg]gW\Yg*H\YUhYf*gcn]U`Y*H\Ya Yb*UbgdfYW\Yb*_Ubb"

8 UgʻGhØW_`Ni fØW_`]b`X]Y`Ni _i bZh `h\Ya Uh]g]Yfh`X]Y < YfUi gZcfXYfi b[Yb`i bX`9bhgW\Y]Xi b[Ybž`X]Y`]b`XYf`88F`i bX`XYf XYi hgW\Yb`5i hca cV]`[YgW\]W\hY`k À\fYbX`XYf`%-*\$Yf`\J\fY UV[Y`Y\bh`k i fXYb"'9g`V]YhYh`Y]bYb`gdUbbYbXYb`6`]W_`Ui Z`X]Y

\dip bcj Uh]cb'i bX`XYb'[YgY``gW\UZh`]W\Yb`K UbXY`ž`XYb`X]Y`K YbXY
a]h`g]W\`VfUW\hY"'5i W\`<Ybf]_`\dip gYbg' 9]b'Jc`_gZY]bX
h\Ya Uh]g]Yfh`X]Y'JYfUbhk cfh`]W_Y]h`XYg`\dip X]j]Xi i a g'ZØf`XUg
; Ya Y]bk c\`ž`k Ug']b`XYf`\Yi h][Yb`NY]h`VYgcbXYfg`k]W\h][
YfgW\Y]bh"'Gc`W\Y'H\Ya Yb'g]bX'ZØf`X]Y'Ni gW\Ui Yf'j cb'\c\Yf
FY`Yj Ubn'i bX'Yfa Ò[`]W\Yb'Yg']\bYbž'g]W\'a]h`\]ghcf]gW\Yb'i bX
nY]h[YbÒgg]gW\Yb'DfcV`Ya Yb'Ui gY]bUbXYfni gYhnYb"

GhUh]gh]_Yb'i bX'8UhYb'ni 'XYb'VYgi WXhYb H\YUhYfb

9]bY'l a ZfU[Y'XYf' GUWXg]gWXYb'NY]hi b['Yf[UVž'XUgg'*'ı 'XYf 6YZfU[hYb'5b[UVY'a UWXhYbž'XUgg'g]Y'Ub']bhYfU_h]j Yb H\YUhYfUi ZZØ\fi b[Ybž'k]Y'g]Y'Yhk U'VY]' Ni fØW_']b'X]Y'Ni _i bZh Ub[YVchYb'k YfXYbž'VYgcbXYfg']bhYfYgg]Yfh'g]bX"'8]YgY'5fh'XYg H\YUhYfg'ZÒfXYfh'b]WXh'bi f'X]Y'?fYUh]j]hÀhž'gcbXYfb'Ui WX'XUg 9b[U[Ya Ybh'XYf'Ni gWXUi Yf'i bX'V]YhYh']\bYb'X]Y'A Ò[`]WX_Y]hž HY]`XYq'; YgWXY\Ybq'ni 'k YfXYb"

8 YhU]`a