

+) '>U\fY'G]Y[Zf]YX'GhcW_.'9]b 9\fYbVØf[Yf'ZØf'6]`Xib['ibX NigUa a Yb\U`h

9fZU\fYb'G]Y'a Y\f'ØVYf'G]Y[Zf]YX'GhcW_ž'XYb'`Ub['À\f][Yb 6Yn]f_gVØf[Yfa Y]ghYf'i bX'JcfghY\Yf'XYf 6Yn]f_gj YfcfXbYhYbj YfgUa a `i b['j cb'HfYdhck!?ÒdYb]W_ž XYf'\Yi hY'gY]bYb'+) "'; YVi fhghU['ZY]Yfh"'8 Yf'5fh]_Y``k ØfX][h gY]bY'VYXYi hYbXYb'JYfX]YbghY'ZØf'6]`Xi b[ž'?i `hi f'i bX gcn]U`Yb'Ni gUa a Yb\U`h']a '6Yn]f_'i bX'ghY``h'gY]bYb bUWX\U`h][Yb'9]bZi gg'Ui Z'X]Y'9bhk]W_`i b['HfYdhck!?ÒdYb]W_g'XUf"

9]b'@YVYb'ZØf'X]Y'; Ya Y]bgWXUZh.'G]Y[Zf]YX Ghc W_'k]fX'+)

9]b'9]bZ`i ggfY]WXYg'K]f_Yb']b'XYf 6Yn]f_gYbhk]W_`i b[

"8]Y'dc`]h]gW\Y'?Uff]YfY'j cb'G]Y[Zf]YX'GhcW_'VY[Ubb'a]h'gY]bYa
9b[U[YaYbh'U`g'6]`Xi b[gghUXhfUh"' + b'X]YgYf'Fc``Yž'X]Y'Yf'j cf'XYf
:ig]cb'XYf'6Yn]f_Y'HfYdhck'ibX'?ÒdYb]W_']bbY\UhhYž'kUf'Yf
aU»[YV`]W\'XUfUb'VYhY]`][hž'XUg'6]`Xi b[ggmghYa'bUW\'XYf
K]YXYfjYfY]b][ib['ni 'acXYfb]g]YfYb"'GY]b':c_ig'UiZ'Y]bY

nY]h[Ya À» Y '6]`Xi b[' \mathbb{Z} Øf'X]Y ' \Rightarrow [YbX'k Uf'b]W\h'bi f'j]g]cb\h'z gcb\XYfb'\Ui \W\'bch\k Yb\X][ž'i a 'bYi Y '7\\Ub\W\b'ni 'g\W\\U\\Z\Yb\'''

9]b J cfV] X ZØf b UW Zc [Yb XY ; Yb Yf Uh]cb Yb

 $G[Y[Zf]YX`GhcW_``Uh`XUg`HfYdhck Yf`6]`Xi b[gk YgYb`bUWk \U`h][VYY]bZi ggh" 8]YgY`9ffi b[YbgWk UZhYb`g]bX`b]Wk h`bi f`ZØf`X]Y 6]`Xi b[gY]bf]Wk hi b[Yb`gY`Vgh'j cb`6YXYi hi b[ž'gcbXYfb`ghÀf_YbUi Wk`XYb`gcn]U`Yb`Ni gUa a Yb\U`h`]bbYf\U`V`XYf'; Ya Y]bgWk UZh ž gc`6Yn]f_gVØf[Yfa Y]ghYf`C`]j Yf`<math>=$ {Y`"`GY]bY`6Ya Ø\i b[Yb`fY]Wk hYb ØVYf`X]Y`6]`Xi b[`\]bUi g. 5i Wk`X]Y`?i`hi f`i bX`X]Y`k]fhgWk UZh`]Wk Y 9bhk]\W_`i b[`XYg`6Yn]f_g``U[Yb`]\a `Ua `<YfnYb"``

JYfa ÀWX hb]g'ØVYf'X]Y'Dc`]h]_'\]bUi g

"5i W\ bUW\ gY]bYf'U_h]j Yb'dc`]h]gW\Yb'@Ui ZVU\b'V`]YV'Ghc\W_Yb[a]h'XYf'; Ya Y]bgW\UZh'j YfVi bXYb"'5`g``Ub['À\f][Yf'@Y\fYf'V`]YV gY]bY'@Y]XYbgW\UZh'ZØf'6]`Xi b['i bX'XUg'K c\``XYf' $\stackrel{\bot}{\Rightarrow}$ [YbX']b HfYdhck!? OdYb]\W_'i b[YVfc\W\Yb"'GY]bY' $\stackrel{\bot}{\Rightarrow}$]h]Uh]j Yb'k À\fYbX gY]bYf'5a hgnY]h'ni f'GhUXhYbhk]\W_`i b['g]bX'V]g'\Yi hY'gdØfVUf'i bX nY][Yb'gY]bYb'i bYfa \emptyset X`]\W\Yb'9]bgUhn'Z \emptyset f'X]Y'6 \emptyset f[Yf"''

9]bYb'6]W'nifØW

"G]Y[Zf]YX Ghc W_'\Uh'b]W\h'bi f'Y]bY 'ŸfU'U_h]j 'a]h[YghU`hYhž gcbXYfb'k i fXY'j cb'gY]bYb'A]hVØf[Yfb'Ui W\ghYhg'U`g fYgdY_h]YfhYf'Dc`]h]_Yf'k U\f[Ybca a Yb"' ≠bgVYgcbXYfY'gY]bY'Fc``Yk À\fYbX'XYf'¸VYf[Ub[gd\UgY']b'XYb'%--\$Yf'*J\fYbž'U`g'6Yf`]bg]W\bUW\XYf'K]YXYfj YfY]b][i b['bYi 'Zcfa]YfhYž'nY][h'gY]bY: Ø\fi b[gghÀf_Y'i bX'gY]b'DZ]W\hVYk i gghgY]b"'6YgcbXYfg']bX]YgYb'\YfUi gZcfXYfbXYb'NY]hYb'gYhnhY'Yf'g]W\ZØf'X]YJYfVYggYfi b['XYf'@YVYbgVYX]b[i b[Yb'Y]b"'

; Ya Y]bgUa Yg: Y]Yfb i bX 8Ub_VUf_Y]h

"5a "\Yi h][Yb 'HU['nc ``Yb 'X]Y '6Øf[Yf'j cb 'HfYdhck !?ÒdYb]W_ G]Y[Zf]YX 'Ghc W_ ']\fYb 'F YgdY_h'i bX '8 Ub_VUf_Y]h'' 'GY]b

9b[U[Ya Ybh'i bX'gY]bY': Ø\fi b[gghÀf_Y'\UVYb'b]W\h'bi f'XYb 6Yn]f_ž'gcbXYfb'Ui W\'XUg'@YVYb'j]Y`Yf'A YbgW\Yb'bUW\\U`h][VYY]bZi ggh"'K]f'k ØbgW\Yb']\a 'ni 'gY]bYa '+) "'; YVi fhghU['U``Yg; i hYž'j]Y`'; Ygi bX\Y]h'i bX'k Y]hYf\]b': fYi XY']a '?fY]gY'gY]bYf: Ua]`]Y'i bX': fYi bXY"''

B5;

8 YhU]`g

6Ygi WXYb 'G]Y 'i bg 'Ui Z. 'a Y]b!VYf `]b "bYh