

? UfghÀXh ZY]Yfh C_hcVYfZYgh. 6]Yfž 8]fbX` i bX Y]bY A cfXg[Ui X]°

? UfghÀXhž'8 Yi hgWX `UbX'!' \D'? UfghÀXh'k i fXY'XUg'C_hcVYfZYgh']b XYf'@ÒW_b]hn\U``Y'[YZY]Yfh' i bX'XUg'[Ubn']a 'VUmYf]gWXYb'Gh]`° 6Ygi WXYf'ghfÒa hYb'\YfVY]ž'j]Y`Y']b'8]fbX`i bX'@YXYf\cgYbž'i a X]Y'ZYgh`]WXY'Gh]a a i b['ni '[Yb]Y»Yb"'6YgcbXYfg'VYa Yf_Ybgk Yfh k Uf'X]Y'J]Y`ZU'h'XYf'Ci hZ]hg. 'K À\fYbX'X]Y'%*!'À\f][Y'@ci bU GYYa Ubb']b']\fYa 'Y][Ybg'XUZØf'[Y_Ui ZhYb'8]fbX`'Ui ZhfUhž'hfi [Yb]\fY': Ua]`]Yba]h[`]YXYf'_Y]bY'hfUX]h]cbY``Y'HfUWXh"'7\f]ghcd\Yf 6fY»'i bX'gY]bY': fUi 'A]WXUY`U'\]b[Y[Yb'\UhhYb'g]WX'Yfgh'j cf'nk Y] K cWXYb'dUggYbXY'?`Y]Xi b['VYgcf[hž'i a 'X]Y'VUmYf]gWXY'HfUX]h]cbY]ba U``Ui qni dfcV]YfYb"

8]Y'ZYgh`]W\XY_cf]YfhY'<U``Y'k Uf'Y]b'YW\hYf'<]b[i W_Yf'a]h``Ub[Yb6]Yfh]gW\Ybži bX'X]Y'6UbX' 6UW_'hc'Aig]W'gcf[hY'ZØf
Ui g[Y`UggYbY'Gh]aaib[ž'Ui W\kYbb'X]Y'6`Ug_UdY``Y'ZY\`hY''
; cfXYb'GhfYW_Yfž'XYf'XUg'C_hcVYfZYgh'gY]h'&('\$J\fYb'cf[Ub]g]Yfhž__\@bX][hY'Ubž'XUgg'X]Y'&)''\$\forall V]\hataagZY]Yf'_caa YbXYg'\f\forall f
ghUhhZ]bXYb'k]fX''' 8Yf'9fZc`['_Ubb'g]W\gY\Yb'`UggYb\ž'gc
GhfYW_Yfž'k\A\fYbX'X]Y'6Ygi W\Yf'g]W\h']W\GdU\rangle \tau\UhhYb'''8]Y
JYfUbghU`hib['\Uh'g]W\ni'Y]bYa'ZYghYb'HYfa]b'ZØf'nU\`fY]W\Y
: Ubg'Ybhk]W_Y`hž'X]Y'b]W\h'bif'Uig'XYf'; YaY]bXY'_caaYbž
gcbXYfb'UiW\'jcb'kY]h'\Yf'fY]gYbž'ia'X]Y'?Ufgh\XhYf'; UiX]'ni

: Øf'k Y]hYfY' ⊕ Zcfa Uh]cbYbž'g]Y\Y'X]Y'U_hi Y``Y 6Yf]W hYfghUhhi b['Ui Z'k k k "bcfX_i f]Yf"XY"

8 YhU]`g	
Cfh	?UfghÀXhž8YihgWX`UbX

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