

$GWX cW_{}^{}$]b'< $ØW_{}^{}$ Ygk U[Yb.'+'! \Rightarrow À\f][Y'j cb Y][YbYa'5i hc'ØVYffc``h°

 $6Y]^nk Y]^gWk YfYb^JYf_Y\fgi bZÅ^`Yb^]b^< \varnothing W_Ygk U[YbkifXYb^Y]bY^+'! Å f][Y^ibX^Y]bY^', ! Å f][Y^jYf^Yhnh'' 8YhU^]YfhY^6Yf]WkhY^\OVYf^X]Y^9fY][b]qqY''$



< ØW_Ygk U[Ybž'8Yi hgWk `UbX'!'5a 'GUa ghU[UVYbXž'XYb'&%"' \Rightarrow b]
&\$&) ž'YfY][bYhY'g]Wk']b'< ØW_Ygk U[Yb'Y]b'hfU[]gWkYf

J Yf_Y\fgi bZU``ž'VY]'XYa 'Y]bY'+' !'Â\f][Y': fUi 'gWk KYf'j Yf`Yhnh
k i fXY"'@Ui h'_ghU"XY'dUf_hY'X]Y': fUi '[Y[Yb'%- "\$\$'I \f']\f
5i hca Uh]_!: U\fnYi [']b'XYf'9]bZU\fh']\fYg'< Ui gYg"'5`g'g]Y
Ui gghY][Yb'k c``hYž'ghØfnhY'g]Y'Ui g'V]g`Ub['i b[Y_`ÀfhYf'I fgUWkY'i bX'k i fXY'j cb']\fYa 'Y][YbYb'D_k 'ØVYffc``h"</pre>

8]Y'GWk YfY']\fYf'J Yf`Yhni b[Yb'a UWkhY'Yg'bchk YbX][ž'Y]bYbFYhhi b[g\i VgWkfUi VYf'Ubni ZcfXYfb"'8]YgY'`YVYbgfYhhYbXYAU» bU\a Y'ZØ\fhY'XUni ž'XUgg'X]Y'+'!\A\f][Y'i a [Y\YbX']b'Y]b?fUb_Yb\Ui g'bUWk'?Ò`b!AYf\Y]a '[YZc[Yb'k i fXY"'8]Y'[YbUi YbIa ghÀbXY'XYg'I bZU``g'g]bX'V]g`Ub['i b_`Ufž'k Yg\U`V'X]Y'Dc`]nY]'X]Y

9fa]hhì b[Yb'Ui Z[Ybca a Yb'\Uhži a 'X]Y'I fgUW\Yb'ZØf'XYb'JcfZU``ni '_`ÀfYb"

$I bZA^Y^Ai ZYbg]W^BXYfFY[]cb$

8]YgYfJcfZU```]gh'b]W\h`XYf'Y]bn][Y'I bZU``ž'XYf']b'<ØW_Ygk U[Yb']b
XYb'`YhnhYb'HU[Yb'GW\`U[nY]`Yb'[Ya UW\h'\Uh"5a
A]hhk cW\a]hhU['_Ua 'Yg'Ui Z'XYf'GhfU\yY'GhfU\yk Y[']b'K]\W_YgVYf[
ni 'Y]bYa 'k Y]hYfYb'gW\k YfYb'JYf_Y\fgi bZU``"'9]bY'', !'À\f][Y
5i hcZU\fYf]b'k i fXY']b']\fYa ': U\fnYi ['Y]b[Y_`Ya a hž'U`g'g]Y'a]h
Y]bYa 'Ybh[Y[Yb_ca a YbXYb'5i hc'_c``]X]YfhY"'8]Y'(''!'À\f][Y
: U\fYf]b'Ui g'K Yfa Y`g_]fW\Yb'k Uf']b'XYb'; Y[Ybj Yf_Y\f'[YfUhYbžk]

 $8]Y :: Yi Yfk Y f'a i gghY 'a]h \ mXfUi `]gWXYb `F Yhhi b[g[YfÀhYb UbfØW_Ybž'i a 'X]Y 'Y]b[Y_`Ya a hY :: U fYf]b 'ni 'VYZfY]Yb "'B UWXXYa g]Y '[YfYhhYh'k i fXYž'YfZc `[hY 'Ui W 'ZØf'g]Y 'Y]b 'HfUbgdcfh'a]h 'Y]b Ya F Yhhi b[g\ i VgWXfUi VYf'Ui Z[fi bX 'XYf'GWXk YfY']\ fYf J Yf Yhni b[Yb "; `ØW_`]WXYfk Y]gY 'Yf `]hh 'X]Y '(' ! <math>\Rightarrow$ \ f][Y 'bi f `Y]WX hY J Yf Yhni b[Yb 'i bX 'k i fXY 'YVYbZU ``g']b 'Y]b '? fUb_Yb \ Ui g'[YVfUWXh" \Rightarrow 'X]YgYa ': U``XUi YfhYb 'X]Y 'F Yhhi b[g! 'i bX '5i ZfÀi a UfVY]hYb 'ØVYf XfY]Y]b \ U`V 'Ghi bXYbž'k À\ fYbX 'X]Y 'GhfU\sim Y 'ZØf'X]Y 'I bZU``Ui ZbU\a Y [YgdYffh'k Uf"]

 $6Y]XY'IbZA``Y'\]bhYf`UggYb'b]Whhbif'gWXcW_]YfhY'NYi[Ybž\\gcbXYfb'kYfZYb'UiWX'Y]b'GWX`U[`]WXh'UiZ'X]Y'JYf_Y\fgg]WXYf\Y]h\\]b'XYf'FY[]cb"'9g'V`Y]Vh'ni'\cZZYbž'XUgg'gc`WXY'JcfZA``Y']b'Ni_ibZh\\jYfa]YXYb'kYfXYb'_ObbYbž'ibX'X]Y'9fa]hh`ib[Yb'kYfXYb'nY][YbžkY`WXY'AU»bU\aYb'YjYbhiY```bOh]['g]bXž'ia'X]Y'G]WXYf\Y]h'UiZXYb'GhfU»Yb'jcb'<0W_YgkU[Yb'ni'Yf\O\Yb"$

8 YhU]`g	
Cfh	< ØW_YgkU[Ybž'8YihgW\`UbX
EiY``Yb	• k k k "_ghU"XY
	fd!cb`]bY"XY