

BYi ']a '8fi W_. '8Ug'j]YfhY '9`Ya Ybh'! GUWX Y ', ')

8 UgʻVUXYb!k ØfhhYa VYf[]gWXYI bhYfbY\a YbʻJc`cWcdhYfghY\h']a 'A]hhY`di b_hXYfʻbYi YghYbʻ5i g[UVYʻXYfʻVY`]YVhYb KYV!HJ!GYbXi b['/Ua d/, &&&/8FI 7?
G57 < 9/ Ua d/, &&\$/"8]Y'') ": c`[YʻXYfʻGYf]Y`k]Xa Yhʻg]WXXYbʻH\Ya Ybʻ\bcj Uh]cbžI bhYfbY\a Yfhi a i bXʻ?`]a Ui bX nY][hžk]YʻJc`cWcdhYfʻX]YʻJ]g]cbʻY]bYgʻ: i [hUl]gʻZØfʻU``Y j Yfk]f_`]WXybʻa ÒWXhY"'Jc`cWcdhYfʻ\Uhʻg]WX ni a `N]Y`[YgYhnhžX]YʻAcV]`]hÀhʻ]a '@ZhfUi a 'bUWX\Uʻh][i bXʻbYi ni XYZ]b]YfYb"'8UgʻI bhYfbY\a Ybʻa UWXhʻAcV]`]hÀhʻb]WXhʻbi fi a kYʻhZfYi bX`]WXʻzgcbXYfbʻUi WXʻ_`]a UbYi hfU`"'8]f_'<c_Yž79CʻjcbʻJc`cWcdhYfžYf_`ÀfhYʻ]bʻY]bYaʻ; YgdfÀWXʻa]hʻFi X] <cc[j`]YhžXYaʻ6Yjc``a ÀWXh][hYbʻXYgʻ@UbXYgʻ6UXYb! K ØfhhYa VYf[`VY]a '6i bXžXUggʻXUgʻI bhYfbY\a YbʻVYfY]hg]a 'bÀWXghYbʻ\J\fY]bYbʻk]WXh][YbʻGWXf]hhʻ]bʻF]WXhi b[YY_hf]qWXYi bX`bUWX\Uʻh][Yʻ@iZhZU\fh/Ua d\YY`]d/

Jc`cWcdhYf`\Uh'g]W\nia 'N]Y`[YgYhnhž'X]Y`AcV]`]hÀh']a '@ ZhfUiabUW\\U`h]['ibX'bYi'ni 'XYZ]b]YfYb"'8Ug'IbhYfbY\aYb'aUW\hAcV]`]hÀh'b]W\h'bif'iakY`hZfYibX`]W\ž'gcbXYfb'UiW\'_`]aUbYihfU`"8]f_'<c_Yž'79C'jcb'Jc`cWcdhYfž'Yf_`ÀfhY']b'Y]bYa'; YgdfÀW\'a]hFiX]'<cc[j`]Yhž'XYa'6Yjc``aÀW\h][hYb'XYg'@UbXYg'6UXYb!KØfhhYaVYf['VY]a'6ibXž'XUgg'XUg'IbhYfbY\aYb'VYfY]hg']abÀW\ghYb'\J\fY]bYb'k]W\h][Yb'GW\f]hh']b'F]W\hib['Y`Y_hf]gW\YibX'bUW\\U`h][Y'@iZhZU\fh'aUW\Yb'k]fX"

8]Y = XYY Y]bYg: `i [hUl]g:[U`h'j cfink Y] * \lambda\fnY\bhYb'bcW\ 'U`g I hcd]Y \(\times \text{UVYf} \text{XUb}_ \) c `c \(\times \text{dhYf'k} \) f \(\text{g} \)Y \(\text{VYfY} \) hg']a \(\text{dhYf'k} \) \(\text{FYU`} \) h\(\text{h'K} \) Y \(\text{VYfY} \) h\(\text{dhYf'k} \) Y \(\text{VYfY} \) h\(\text{h'K} \) Y \(\text{VYfY} \) h\(\text{VYfX} \) h\(\text{VYfX} \) \(\text{VYfX} \) h\(\text{

 $= a \cdot DcXWUgh'X]g_i h]YfYb'8]f_i < c_Y'i bX'Fi X]' < cc[j`]Yh'Ui W\'ØVYf X]Y'Ni _i bZh'XYf'@i ZhZU\fh']b'8Yi hgW\`UbX''G]Y'YfÒfhYfbž'k Y`W\Y A U\' bU\ a Yb'Yf[f]ZZYb'k YfXYb'a ØggYbž'XUa]h'X]Y'DfcXi _h]cb'i bX 9bhk]\(W_i b[j cb': i [hUI]g'i bX'UbXYfYb' \delta bcj Uh]cbYb'k Y]hYf\]b]b'8Yi hgW\`UbX'ghUhhZ]bXYb'_\ObbYb'''5i \(YfXYa'k]fX'\ØVYf'X]Y NYfh]Z]n]Yfi b[j cb': i [hUI]g'i bX'X]Y'G]\(YgdfcW\'Yb'' \end{align*}$

8]Y'') ":: c`[Y'j cb' 8FI 7? 'G57<9 'hfÀ[h'XYb'H]hY` 8Ug'j]YfhY 9`Ya Ybh 'i bX'ghY\h'U`g'A D' !8UhY]'Ui Z'Mci Hi VY'i bX j YfgWX]YXYbYb'DcXWUgh!D`UhhZcfa Yb'ni f'JYfZØ[i b["'< ÒfYb'G]Y fY]bži a 'a Y\f'ØVYf'X]Y'J]g]cbYb'i bX'D`ÀbY'j cb'Jc`cWcdhYf'ni YfZU\fYb"

±b 'Y]b Ya 'Ub XY fYb 'HY]' 'XY f'GY b Xi b ['VY ZUggh'g] W '<cc[j`] Y h'a]h XYa 'H\Ya U'?`]a U']a '6i b XY gf UhghY]' "'Dc`]h]_Y f'a ØggY b 'VY fY]hg \Yi hY 'X]Y 'K Y] W Yb 'ghY` 'Yb ž'i a '@B; !HY fa]b U`g'V]g'ni a '≯J\ f'&\$('__`]a Ub Yi hf U` 'VY hf Y] VY b 'i b X 'ZØf'X]Y 'K UggY fghc \ZZ]b Zf Ughfi _hi f i a f ØghY b 'ni '_ObbY b "'Ni XYa 'k Yf XY b 'A U» b U\a Yb 'X]g_i h]Y fh ž'i a B Yhhc!Bi ``!HY W bc`c[] Yb 'k Y]hY fni Yb hk] W_Y`b'i b X 'XY b 'G W i hn 'XY g ?`]a Ug'Xi f W 'VY g W 'Yi b][hY'; Yb Y\a][i b[gj Y f Z U\fY b 'ni [Yk À\f`Y]ghY b"

8]Y'U_hi Y``Y'DcXWUgh!: c`[Y'i bX'Ui W\'ZfØ\YfY': c`[Yb'_ObbYb']bXYf'A YX]Uh\Y_'Ui Z'XYf'K YVg]hY'XYg'VUXYb!k ØfhhYa VYf[]gW\YbA]b]ghYf]i a g'ZØf'GhUUhga]b]ghYf]i a 'bUW\[Y\Ofh'k YfXYb'' 6Ygi W\Yb'G]Y'X]Y'A YX]Uh\Y_ž'i a 'U``Y': c`[Yb'j cb' 8Fl 7?G57<9 'Ubni \OfYb''

EiY``Y.`\hhdg.##gha "VUXYb!
kiYfhhYa VYf["XY#XY#gYfj]WY#a YX]U#a]X#Xfi W_!gUWXY!')

8 YhU]`g

 $6\,Y\,gi\ W\!\!X\,Y\,b\,{}^*\!G]Y\,{}^*\!i\ b\,g\,{}^*\!Ui\ Z.\,{}^*\!b\,!\,U[\ "X\,Y]$