

H]Yf\]`ZY`K c`ZgVi f[`fYhhYh'? UhYf`B]_c'j cf XYa 'g]WXYfYb 'HcX'

8]Y'H]Yf\]`ZY'K c`ZgVi f['fYhhYh'? UhYf'B]_c'j cf'XYa 9]bgW\`ÀZYfb'i bX'ghY``h'Y]bY'ZU`gW\Y': \pm 0!8]U[bcgY'ZYgh"



 $K\ c\ ZgVi\ f[\ \check{z}\ 8\ Yi\ hgWX\ `Ub\ X\ '!\ '9]bY\ `\ YfnYfk\ \grave{A}fa\ YbXY \\ F\ Yhhi\ b[\ gU_h]cb\ `\ Uh\ g]WX\]b\ K\ c\ ZgVi\ f[\ 'YfY][\ bYh\check{z}'i\ bX\ X]Y \\ ;\ YgWX\]W\ hY\ 'j\ cb\ '?\ UhYf\ B]_c\ 'Ui\ g\ < Ua\ Vi\ f[\ 'VYk\ Y[\ h'X]Y \\ H]Yf\]YV\ UVYf\]b\ 'XYf\ GhUXh''B]_c\ 'gc\ ``hY\ 'Ui\ Z[\ fi\ bX\ 'Y]bYf \\ j\ Yfa\ Y]bh\ `]WX\ Yb\ 'hOX\]WX\ Yb\ '9f_fUb_i\ b[\ \check{z}'XYf':\ Y\]bY\ *\ DZY_h]OgYb \\ DYf]hcb]h]g\ fl\ *\ DŁZY]b[\ YgWX\ `\grave{A}ZYfh\ 'k\ YfXYb'''8]Y\ '5\ `hYfbUh]j\ Y\ 'k\ Uf\ ZØf \\ X]Y\ 'j\ Yfnk\ Y]ZY\ `hY\ :\ Ua\]`]Y\ 'XYg\ '?\ UhYfg'i\ bYfhf\ &[\ `]WX\ \check{z}'XYbb\ 'X]Y \\ Gma\ dhca\ Y\check{z}'X]Y\ 'Yf'nY][\ hY\ 'ghUf_Y\ '6Ui\ WX\ gWX\ a\ YfnYb\ 'i\ bX \\ 9fVfYWX\ Yb\ 'k\ UfYb\ 'U\ 'Ufa\]YfYbX'''8cW \ ']b\ 'Yhhh\ f'\ A\]bi\ hY\ '_Ua\ 'XYf \\ H]YfgWX i\ hnj\ YfY]b\ 'ni\ f'\ <]`ZY\ 'i\ bX\ 'cf[\ Ub\]g]YfhY\ 'Y]bY\ 'F\ Yhhi\ b[\ gU_h]cb'' \\ 8Yf\ '?\ UhYf\ 'k\ i\ fXY\ 'ni\ f'\ H]Yf\]`ZY\ 'K\ c\ `ZgVi\ f[\ '[\ YVfUWX\ hz''k\ c\ X]Y \\ H]YfAfnhY\ 'gWX\ bY``YfghY\ 'Nk\ Y]ZY\ 'Ub\ 'XYf\ :\ $D!\ 8]U[\ bcqY\ `Ai\ \ YfhYb''$

8cfh'Ub[Y_ca a Ybž'ghY``hY'g]W\`\YfUi gž'XUgg'X]Y'8]U[bcgY'ZU`gW\
k Uf"'9]b'F Obh[YbV]`X'cZZYbVUfhYž'XUgg'B]_c'N][UfYhhYbZ]`hYf']b
gY]bYa '6Ui W\`\UhhYž'X]Y'X]Y'6YgW\k YfXYb'j Yfi fgUW\h'\UhhYbž
i bX'b]W\h'XUg'[YZØfW\hYhY'J]fi g"'\D'Y]bYf'fYhhYbXYb'CdYfUh]cb
_cbbhYb'X]Y'H]YfAfnhY'j]Yf'N][UfYhhYbZ]`hYf'YbhZYfbYb"'B]_c'a i gg
g]W\'bi b'Ui gfi \Ybž'\Uh'UVYf'Y]bY'7\UbW''Ui Z'; YbYgi b["'8]Y
H]Yf\]`ZY'K c`ZgVi f[']gh'a]h'gY]bYf'6YhfYi i b['VYhfUi h'i bX'\cZZh'Ui Z
VU`X][Y'6YggYfi b[ž'Ui W\'k Ybb'XYf'?UhYf'bcW\'b]W\h'ØVYf'XYb
6Yf[']gh"

$: =D. 9]bYYfbgh\UZhY6YXfc\ib[ZØf?UhnYb]$

 $8]Y := \mathfrak{D}'] gh'Y] bY'Yfbghni bY \setminus a YbXY'9f_fUb_i b['VY]'? UhnYb\check{z}'X] Y Xi fW. 'XUg': Y`]bY'7cfcbUj]fi g'fl 7cJŁ'j Yfi fgUW.h'k]fX"'8UVY] a i h]Yfh'XUg'J]fi g']a '? ÒfdYf'XYf'? UhnYž'\Ài Z]['VY]'H]YfYb'a]h [YgW.k ÀW.hYa '=a a i bgmghYa "'Gc'[]Vh'Yg'a Y\fYfY': cfa Yb'j cb : <math>\mathfrak{D}\check{z}'X] Y'i bhYfgW.]YX`]W.Y'Gma dhca Y'\Yfj cffi ZYb\check{z}'k]Y'X]Y'ZYi W.hY : cfa 'a]h': `Øgg][_Y]hgUbgUa a `i b[Yb'cXYf'X]Y'hfcW_YbY': cfa \check{z}'X]Y 9bhnØbXi b[Yb']b'Cf[UbYb'j Yfi fgUW.h''9]b][Y'? UhnYb'_Àa dZYb gc[Uf'a]h'bYi fc`c[]gW.Yb'5i ZZÀ``][_Y]hYb''$

- : Yi Wk hY': cfa .': `Øgg][_Y]hgUbgUa a `i b[Yb']a '6Ui Wk! cXYf'6fi ghfUi a "
- HfcW_YbY: cfa . ? bchYb ii bX '9bhnØbXi b[Yb ']b 'Cf[UbYb k]Y '@YVYf ii bX 'B]YfYb"
- C_i `UfY': cfa .'J YfÀbXYfi b[Yb'XYf'5i [Yb"
- BYifc`c[]gWXY': cfa . '?fÀa dZY'i bX#cXYf'@À\a i b[Yb"

K]Y'X]Y'DZcYhWXYb\]'ZY'@c]gUWXhU`'VYf]WXhYhž'_ObbYb'X]Y
GmadhcaY'gY\f'i bgdYn]Z]gWX'gY]bž'XUfi bhYf'Ui WX
5ddYh]h`cg][_Y]hž':]YVYf'i bX'; Yk]WXhgj Yf`i gh"'8YbbcWX'\UVYb
: cfhgWXf]hhY']b'XYf'6Y\UbX`i b['X]Y'<Y]`i b[gWXUbWYb'g][b]Z]_Ubh
j YfVYggYfh"'A]h'XYa'K]f_ghcZZ'; G!((%)&('_ObbYb'X]Y
<Y]`i b[gfUhYb'VY]'ZfØ\nY]h][Yf'8]U[bcgY'i bX'6Y\UbX`i b['ØVYf', \$
| 'VYhfU[Yb"'8]Yg']gh'Y]bY'Yfai h][YbXY'BUWXf]WXh'ZØf
? UhnYbVYg]hnYfž'Ui WX'k Ybb'XUg'AYX]_UaYbh']b'8Yi hgWX`UbX
b]WXh'cZZ]n]Y``ni [Y`UggYb']gh"

< YfUi gZcfXYfi b[Yb i bX ? cghYb XYf 6Y\UbX`i b[</pre>

8]Y'H]Yf\]`ZY'K c`ZgVi f['`Y]ghYh'a]h']\fYf'i bYfa ØX`]WXYb'5fVY]h
k]WXh][Y'6Y]hfÀ[Y'ni f'FYhhi b['i bX'K]YXYf\YfghY``i b['j cb
j Yf`YhnhYb'i bX'_fUb_Yb'H]YfYb"'9]bY'; YgWX]WXhY'k]Y'X]Y'j cb'B]_c
Yf]bbYfhii bg'Y]ba U``a Y\f`XUfUbž'k]Y'k Yfhj c```9b[U[Ya Ybh'i bX
A]h[YZØ\``]a 'H]YfgWXi hn'g]bX"'K Y]hYfY'\DZcfa Uh]cbYb'ni 'XYfYb
5fVY]h'Z]bXYb'g]WX'Ui Z'XY]bk c`ZgVi f["XY"

| 8 Y hU]`g | |
|-----------|---|
| Cfh | K c`ZgVi f[ž'8Yi hgWX`UbX |
| EiY``Yb | • k k k "bYk g' , "XY |
| | • XY]bk c`ZgVi f["XY |
| | d Zc Y hWX Y b \]`ZY!`c]gUWX hU`"cf[|

6 Ygi WX Yb 'G]Y 'i bg 'Ui Z 'X]Y!bUWX f]WX hYb "Wca