

$6Yf^{b}Yf'<]hnY\]^ZY. GYbUhcf]b'?]n]^hYdYghY^h'Xf]b[YbX'VYbOh][hY'5b[YVchY'jcf]$

 $GYbUhcf]b ??]n]`hYdY ghY``h' <]hnY \]`ZY 'ZØf'cVXUW\`cgY A YbgW\Yb']b '6Yf`]b'j cf"'DfYggY_cbZYfYbn'Ua '&"'<math>\not\Rightarrow$ `]']b'XYf DUgg]cbg_]fW\Y"



A Uf\Y]b]W_Yd`Uhnž'%\$-*%'6Yf`]bž'8Yi hgWX`UbX'!'\dota'XYf

K cWXY'j ca '' \$"'\dota' b]'V]g'\dota''\dota' \]'\&\$\&\) 'k]fX']b'\6Yf`]b'\a]h

HYa dYfUhi fYb'j cb'\ØVYf'' \$'; fUX'[YfYWX\bYh'''JcfX]YgYa

<]bhYf[fi bX'a OWX\hY'X]Y'Gcn]U`gYbUhcf]b'\7UbgY`'?]n]`\hYdY'X]Y

U_hi Y``Yb'\5b[YVchY'XYf'\6Yf`]bYf'<]\hnY\]`ZY'\&\&\&\)'\Z\Øf'cVXUWX`cgY

A YbgWXYb'j cfghY``Yb''\5a 'A]\hhk c\W\\\Z'XYb'\&\"'\dota'\]'\&\\&\)\\Z\Z\B\X\h'XUni

Y]bY'\DfYggY_cb\Z\Yf\bn'j cb'\%' 'V]g'\%('I\\f']b'\X\Yf'\DUgg]cbg_]f\WX\Y

Ua 'A Uf\Y]b]\W_Yd`\Uhn']b'?\f\i n\V\Yf['g\H\h\h''\8]Y'\G\Y\b\U\hcf]b'\k\]f\X

XUVY]'j cb'j \Yfg\W\]\YX\Y\b\Y\b'\H\Y\Ua g'i b\Y\fg\M\h\h\h'\Z\Y\g]\W\'\U_\h]j 'i a

X]Y'\6\Y\hf\Y\i b['\]'\Z\g\Y\X\Øf\Z\h][\Y\f\A\Y\b\g\W\Y\b'_\@a a \Y\f\b''

5bk YgYbX'gY]b'k YfXYb'i bhYf'UbXYfYa 'XUg'<]hnY\]`ZY!HYUa 'XYf 9j Ub[Y`]gWXYb'?]fWXYb[Ya Y]bXY'j cf'XYa '<U``YgWXYb'Hcf'gck]Y X]Y 'HYUa g'XYf' <]hnY\]'ZY!6i ggY'j ca '8F?'?fY]gj YfVUbX

A Ø[[Y`gdfYY'i bX'XYf'?ccfX]b]Yfi b[gghY``Y'?À`hY\]'ZY#<]hnY\]'ZY"

\$\text{b}\YfYgg]Yf\Y'Ui g'XYf'DfYggY'g]\bX'Y]\b[Y`UXYb\Z'a \@ggYb'g]\W\

'YXc\W\'V]g'8]Ybg\hU[\Z'XYb'\%"'\Righta'\]'i a '\%*'I\f'i b\Yf'XYf'9!AU]'!

5\XfYggY'dfYggYg\Y``Y4 gYbUg[]j U"VYf`]\b"XY'Uba Y`XY\b"'\5i \Righta'\Ya\
k]fX'X]Y'DfYggY'[YVY\Yb\Z'gY\bg]\VY``a]\h'XYf'G]\hi U\h]cb'XYf

c\XU\W\`cgYb'A Ybg\W\Yb'i a ni [Y\Yb'i bX'X]Y'K \@bg\W\Y'\Y\n\@[`]\W\
: c\hc[fU\Z]Y'i bX':]`a 'ni 'fYgdY_h]YfYb"

<]`ZgUb[YVchY`ZØf`cVXUW\`cgY`AYbgW\Yb</pre>

8]Y'6Yf`]bYf`GhUXha]gg]cb`\Uh`VYfY]hg`AU» bU\aYb`nif
I bhYfghØhni b['cVXUW\`cgYf`AYbgW\Yb`Y]b[YZØ\fh"8Yf'<]hnYVi g
]gh'j cb`A]hhk cW\V]g`GcbbhU['nk]gW\Yb'%' i bX'%, I\fi bhYfkY[g
i bX'V]YhYh`nU\`fY]W\Y'<]`ZYb`Ub"'8Uni '[Y\ÒfYb
GcbbYbgW\ihna]hhY``k]Y'<ØhYž'6UgYWUdg`i bX'XØbbY'*\U\W_Yb`gck]Y
Y]bZUW\Y`AU\`nY]hYbž'XUfi bhYf'VY`Y[hY'6fÒhW\Yb`i bX'CVgh"5i W\
; YhfÀb_Y`kYfXYb`VYfY]h[YghY``h"'6Y]`aYX]n]b]gW\Ya'6YXUfZ
_`ObbYb`cVXUW\`cgY`AYbgW\Yb`Ui Z`K i bgW\`]b`Y]bY'5aVi `Ubn
cXYf`]bg'?fUb_Yb\Ui g`[YVfUW\h`kYfXYb"

8]Y'G]hi Uh]cb'ZØf'cVXUWX!'i bX'k c\bi b[g`cgY'A YbgWXYb']gh'VY]
ghUf_Yb'HYa dYfUhi fYb'VYgcbXYfg'_f]h]gWX"'G]Y'g]bX'\Ài Z][
[Ygi bX\Y]h`]WXYb'F]g]_Yb'k]Y': `Øgg][_Y]hga Ub[Y`ž'GWXk]bXY`
cXYf'gc[Uf'Y]bYa '?fY]g`Ui Zni gUa a YbVfi WX'Ui g[YgYhnh"'Ni 'XYb
Gma dhca Yb'nÀ\`Yb'Ui »YfXYa 'GcbbYbVfUbX'i bX'\DZY_h]cbYb"
5i WX'Xi fWX[YgWXk]hnhY'?`Y]Xi b['_Ubb'X]Y'<Y]`i b['cZZYbYf
K i bXYb'YfgWXkYfYb"'8U\Yf'g]bX'[Yn]Y`hY'A U» bU\a Yb'ni a
GWXi hn'j cf'<]hnY'Xf]b[YbX'YfZcfXYf`]WX"

A U» bU\a Yb [Y[Yb X]Y <]hnY

- GWXUZZI b['_Ø\ `Yf'F Ài a Yž'n"'6"']b 'ÒZZYbh`]WXYb'; YVÀi XYž DUj]``cbg'cXYf'a]h'GcbbYbgY[Y`b"
- JYfVYggYfi b['XYf'< m[]YbYg]hi Uh]cb'Xi fW\'ni gÀhn`]W\Y
 8i qW\!'i bX'K UgW\a O[`]W_Y]hYb"
- 6YfY]hghY``i b['j cb'5i ZVYk U\fi b[ga Ò[`]WX_Y]hYb'ZØf
 K]bhYfVY_`Y]Xi b["

- Cf[Ub]gUh]cb XYf 5i g[UVY j cb K UggYfž GcbbYba] W i bX
 ?cdZVYXYW_i b[Yb"
- 5i gk Y]hi b['XYg'GhfYYhk cf_]b[g'ni f'ZfØ\nY]h][Yb 9f_Ybbi b['j cb'8Y\mXf]Yfi b['i bX' <]hnYYf_fUb_i b[Yb"

8]YgY'A U» bU\a Yb'g]bX'YbhgW\Y]XYbXž'i a 'cVXUW\`cgYb A YbgW\Yb']b'6Yf`]b'k À\fYbX'XYf'_ca a YbXYb'<]hnYk Y``Y'ni \Y`ZYb"'8]Y'GYbg]V]`]g]Yfi b['XYf'2 ZZYbh`]W_Y]h'i bX'X]Y'U_h]j Y HY]`bU\a Y'Ub'<]`ZgU_h]cbYb'g]bX'YVYbZU``g'YfZcfXYf`]W\Y'GW\f]hhYž i a 'XYb'6YXØfZb]ggYb'X]YgYf'VYgcbXYfg'[YZÀ\fXYhYb'; fi ddY [YfYW\h'ni 'k YfXYb"

 $8] Y `GhUXh' \setminus Uh'X] Y `J \ Yf Ubhk \ cfhi \ b[\ \check{z}'[\ YY][\ bYhY `GWX i \ hna \ U» bU \setminus a \ Yb ni \ `Yf[\ fY]ZYb `i \ bX `XYb `VYhfc ZZYbYb `DYfgcbYb `Y]bYb `g]WX YfYb <math display="block">F @W\underline{\quad ni \ [\ gcfh'ni \ `V]YhYb''}$

 $K Y]hYfY' + DZcfa Uh]cbYb'ni f' <]hnY \]`ZY']b'6Yf`]b'Z]bXYb'G]Y'Ui Z'XYb K YVg]hYg'XYf'6Yf`]bYf'GhUXha]gg]cb'i bX'j cb' <]hnYgYfj]WY''$

8 YhU]`g	
Cfh	A Uf\Y]b]W_Yd`Uhnž'%\$-*%'6Yf`]bž
	8 YingWX`UbX
EiY``Yb	• k k k "VYf`]b"XY
	k k k "VYf`]bYf!ghUXha]gg]cb"XY
	• \]hnYgYfj]\W'XY

6 Y gi W Y b 'G | Y 'i b g 'U i Z 'a Y | b ! V Y f ` | b "b Y h