

6fYbbYbXYf'D? K 'Ui Z'5%. 'GWX bY``Y'<]`ZY Xi fWX': Yi Yfk Y\f'i bX'DUggUbhYb

5a '%- "' * `] 'VfUbbhY 'Y]b 'A YfW XYg '5!? `UggY 'Ui Z'XYf '5%'VY]
9`gXcfZ'': Yi Yfk Y\f 'fYhhYhY 'X]Y 'G]hi Uh]cb"'K Y]hYfY '*DZcg'\]Yf°

9]b 6fUb X 'Ui Z X Y f '5 i hc V U \ b . 'g W \ b Y ``Y F Y U_h]c b 'f Y hh Y h 'a O[`] W Y f k Y] g Y '@ Y V Y b

5 %#9 `gX c fZ' flc hgŁ

5a :: fY]hU[ž'XYb '%- "'\$\ `]ž'_Ua 'Yg'[Y[Yb '%%.' \$'I \f'Ui Z'XYf
5i hc VU\b '5%']b 'F]W\hi b['< Ua Vi f['ni 'Y]bYa 'J cfZU``ž'XYf'X]Y
K]W\h][_Y]h'Y]bYf'gW\bY``Yb 'FYU_h]cb ']b 'B chg]hi Uh]cbYb
i bhYfghfY]W\h"'9]bY'A YfWYXYg'5!?`UggY'[Yf]Yh'k À\fYbX'XYf': U\fh
]b 'XYf'B À\Y'XYf'5i ZZU\fh'9`gXcfZ'Ui g'V]g`Ub['i b[Y_`ÀfhYf'I fgUW\Y]b': `Ua a Yb"

$8]YFc``YXYf'9fgh\Y`ZYf$

8]Y'5`Ufa]Yfi b['XYf': Yi Yfk Y\f'Xi fW\'X]Y'FYhhi b[g`Y]hghY``Y
j Yf`]YZ'fY]Vi b[g`cg": Yi Yfk Y\f_fÀZhY'Ui g'9`gXcfZ'i bX'; m\i a
fUghYb'ni 'XYf'I b[`ØW_gghY``Yž'i a 'gW\bY``'ni '\Y`ZYb"

♣bhYfYggUbhYfk Y]gY'k UfYb'ni ZÀ``]['nk Y]'9fgh\Y`ZYf'j cf'Cfhž'Y]b
?fUb_Ybk U[Yb'XYf'&\Ubb]hYf'C`XYbVi f['gck]Y'Y]b'5i hcZU\fYf']b
Y]bYa'6A K "'G]Y'Yf[f]ZZYb'gcZcfh][Y'A U» bU\a Yb'ni f'6Y_Àa dZ b[
XYg': Yi Yfg'a]h'Y]bYa'Di 'j Yf`ÒgW\Yf"'=\fY'gW\bY``Yb'5_h]cbYb
ZØ\fhYb'XUni ž'XUgg'XUg': Yi Yf'VYfY]hg'k Y]h[Y\YbX'[Y`ÒgW\h'k Ufž
U`g'X]Y': Yi Yfk Y\f'Y]bhfUZ"

$9ZZ]n]YbhYBUWXgcf[YXifWXX]Y:YiYfkY\f$

5`g`X]Y`: Yi Yfk Y\f`Ui g`9`gXcfZ`Y]bhfUZža i gghYb`X]Y`?fÀZhY`Ui g
; m\i a `]\fY`9]bgUhnZU\fh`UVVfYW\Ybž`XU`X]Y`G]hi Uh]cb`VYfY]hg
i bhYf`?cbhfc``Y`k Uf"`8]Y`Y]b[YhfcZZYbYb`9`gXcfZYf`: Yi Yfk Y\f`Yi hY
ZØ\fhYb`Y]bY`BUW_cbhfc``Y`a]h`Y]bYf`K Àfa YV]`X_Ua YfU`Xi fW\"
8]YgY`HYW\b]_`Yfa Ò[`]W\hYgž'j YfghYW_hY`6fUbX\YfXY`ni
]XYbh]Z]n]YfYb`i bX`Y]bY`YfbYi hY`9bhnØbXi b[`ni 'j Yf\]bXYfb"
Ni XYa `k i fXY`X]Y`6UhhYf]Y`XYg`: U\fnYi [g`UV[Y_`Ya a hž'i a
a Ò[`]W\Y`?i fngW\`ØggY`XYf`9`Y_hfcb]_`ni 'j Yfa Y]XYb"

5 i gk]f_i b[Yb'Ui Z'X]Y'JYf_Y\fgg]WYfYh

 $8] YgYf'JcfZU```j YfXYi h`]WXh'X] Y'Bchk YbX][_Y]h'Y]bYg'[ih Zib_h]cb] YfYbXYb'FYhhi b[g!'ibX': YiYfk Y\fgmghYa g'gck]Y'X]Y 6 YXYi hi b['jcb'UiZa Yf_gUa Yb'6Øf[Yfb'''8]Y'gWXbY``Y'FYU_h]cb U``Yf'6YhY]`][hYb'_ObbhY'dchYbn]Y```XUni 'VY][YhfU[Yb'\UVYbž[fO)*YfY'GWXAXYb'cXYf'JYf`Yhni b[Yb'ni 'jYf\]bXYfb'''<math>\oplus$ g[YgUa hXUiYfhY'XYf'[YgUa hY'9]bgUhn'Yhk U'Y]bY'Ghi bXYž']b'XYf ['ØW_`]WXYfk Y]gY'_Y]bY'j Yf`YhnhYb'DYfgcbYb'[Ya Y`XYh'k i fXYb'' Ni f'6fUbXi fgUWXY'i bX'XYa 'YbhghUbXYbYb'GWXUXYb'_cbbhYb gY]hYbg'XYf': Yi Yfk Y\f'YXcWX'_Y]bY'[YbUiYb' \oplus Zcfa Uh]cbYb VYfY]h[YghY``h'k YfXYb''

: Un]h'i bX'5i gV`]W_

9]b 'gc 'gW bY``Yf'9]bgUhn'i bX 'X]Y 'GY`Vgh`cg][_Y]h'XYf'9fgh\Y`ZYf g]bX 'c Zh'YbhgW\Y]XYbXž'i a '@YVYb'ni 'fYhhYb'i bX'[fò» YfY'GW\ÀXYb ni 'j Yfa Y]XYb"'8]YgYf'J cfZU``'_ÒbbhY'U`g'6Y]gd]Y`'X]YbYbž'i a 'XUg 6Yk i gghgY]b'ZØf'X]Y'K]W\h][_Y]h'j cb'9fgh\Y`ZYfb']a GhfU» Ybj Yf_Y\f'ni 'gW\ÀfZYb"'\D'5bVYhfUW\h'XYf'Ni bU\a Y'Ub JYf_Y\fgghÒfi b[Yb']gh'Yg'i bYf`Àgg`]W\ž'gc`W\Y'gcZcfh][Yb A U» bU\a Yb'U`g'HY]`'Y]bYf'g]W\YfY'JYf_Y\fg_i `hi f'ni 'VYhfUW\hYbž X]Y'Ui W\XUg'F]g]_c'j cb'6fUbX!'i bX'I bZU``[YZU\fYb']a GhfU» Ybj Yf_Y\fa]b]a]Yfh"

8 YhU]`g

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