

A cfXdfcnYgg']b'GUb_h'@Ycb!Fch. %, !À\f][Yf'bUWX'A YggYfUhhUW_Y j Yfi fhY]`h

9]b '%, ! λ \f][Yf 'hOhYhY 'gY]bY '9I !: fYi bX]b ']b 'GUb_h'@Ycb!Fch" B UWX 'DfcnYggi fhY]` 'a i gg 'Yf 'Y `Z' λ \fY '< UZh 'UVg]hnYb"

± XYf'_`Y]bYb'; Ya Y]bXY'GUb_h'@Ycb!Fch'\Uh'Y]b'hfU[]gW\Yf
JcfZU``'X]Y'<YfnYb'j]Y`Yf'A YbgW\Yb'YfgW\ØhhYfh"'8Yf': U``'XYg
%,!Â\f][Yb'5Xf]Ub'?"ž'XYf'Ua ''9bXY'≯Jbi Uf'gY]bY'9I!: fYi bX]b'a]h
Y]bYa 'A YggYf'hÒX`]W\'j Yf`YhnhYž'\Uh': fU[Yb'ni f'; Yk U`h'i bhYf
≯ [YbX`]W\Yb'i bX'XYfYb'5i gk]f_i b[Yb'Ui Z'X]Y'; Ya Y]bgW\UZh
Ui Z[Yk cfZYb"

9]b YfgWk fYW_YbXYg J YfVfYWk Yb

=a '*Jbi Uf'[YgWXU\'XUg'I bZUggVUfYž'U`g'5Xf]Ub'?"']b'XYf'GWXi `YXYg'@Òk Ybfch!; ma bUg]i a g'gY]bY'%+!'À\f][Y'9I!: fYi bX]b'Ub[f]ZZi bX'g]Y'XUVY]'a]h'Y]bYa 'A YggYf'j Yf`YhnhY"'8Yf'JcfZU``'[YgWXU\]ba]hhYb'j cb'6Yf]WXhYb'ØVYf'gY]bYa 'U[[fYgg]j Yb'JYf\U`hYbž'XUgVYfY]hg'nk Y]'A cbUhY'ni j cf'ni 'Y]bYf'? ÒfdYfj Yf`Yhni b['[YZØ\fh\UhhYž'VY]'XYf'XUg'A ÀXWXYb'Y]bY'[YVfcWXYbY'BUgY'Yf`]hh"

: `i W h b U W X Y f H U h

BUWX 'XYf'HUh'_Ua 'Yg'ni 'Y]bYf'XfUa Uh]gWXYb': `i WXh"'5Xf]Ub'?"
gWXbUddhY'g]WX 'XUg'5i hc'gY]bYg'J UhYfg'i bX'Z \f'ØVYf'', \$
?]`ca YhYf']b'XYb'BcfXYb'8Yi hgWX`UbXgž'VYj cf'Yf']b'GYYgYb'Y]bYb
I bZU```j Yfi fgUWXhYž'VY]'XYa 'Y]b'UbXYfYf': U\fYf'gWXk Yf'j Yf`Yhnh
k i fXY"'8]Y'Dc`]nY]'\UhhY'VYfY]hg'Y]bY'[fc»Ub[Y`Y[hY': U\bXi b[
[YghUfhYhž'X]Y'ni a '; `ØW_'`Yhnh`]WX'YfZc`[fY]WX'k Uf"

I fhY]`i bX XYggYb 6YXYi hi b[

5a 'A]hhk cW. [UV XUg @UbX[Yf]Wkh'<Y]XY`VYf[XUg I fhY]`
VY_Ubbh '5Xf]Ub'? "'k]fX 'ZØf'%%' *J\fY']bg'; YZÀb[b]g'[YgWk]W_h"
8]Yg'g]bX'nk Y] 'J\fY'a Y\f'U`g'X]Y 'ØV`]WkY' < OWkghghfUZY']a

* [YbXghfUZfYWkh"'8]Y '9bhgWkY]Xi b['VYfi \h'Ui Z'XYf'gWkk YfYb
BUhi f'XYg'JYfVfYWkYbg'i bX'XYa 'VYfY]hg'Xc_i a Ybh]YfhYb
[Yk U`hhÀh][Yb'JYf\U`hYb'XYg'HÀhYfg"

8]Y'Fc``Y'XYf'GWXi `Y'i bX'XYf'; Ya Y]bgWX UZh

8]Y'Hfu[OX]Y'k]fZh: fu[Yb'bUW\'XYf'J YfUbhk cfhi b['j cb'GW\'i 'Yb]b'6Yni ['Ui Z'; Yk U`hdfÀj Ybh]cb'Ui Z''Hfchn'j cf\Yf][Yf'A U» bU\a Yb ni f'HfYbbi b['XYf'VY]XYb'* | [YbX`]W\Yb'_cbbhY'XUg j Yf\Àb[b]gj c``Y'; YgW\Y\Yb'b]W\h'j Yf\]bXYfh'k YfXYb''8]YgYf': U`` _ObbhY'Y]bYb'K YW_fi Z'XUfghY``Ybž'XYf'X]Y'Bchk YbX][_Y]h'ZØf i a ZUggYbXYfY'Dfc[fUa a Y'ni f'; Yk U`hdfÀj Ybh]cb'i bX I bhYfghØhni b['j cb'* | [YbX`]W\Yb']b'j Yf[`Y]W\VUfYb'G]hi Uh]cbYb j YfXYi h`]W\h'

9]b 5ddY``Ub X]Y ; YgY``gW UZh

 $8]Y ; YgWXYVb]ggY]b GUb_h @Ycb!Fch g]bX b]WXh bi f Y]b ``c_U`VY[fYbnhYg DfcV`Ya "`G]Y _ObbYb `U`g HY]``Y]bYg [fO` YfYb `HfYbXg j YfghUbXYb `k YfXYbž VY] `XYa `; Yk U`h i bhYf <math>\Rightarrow$ [YbX`]WXYb Y]b ni bY\a YbX `VYgcf[b]gYffY[YbXYg D\Abca Yb `XUfghY``h" `9g VYghY\h`X]Y `Xf]b[YbXY `Bchk YbX][_Y]hž `6Yk i gghgY]b `ni `gWX UZZYb i bX `[YY][bYhY '<]`ZgUb[YVchY `ZØf `\$ [YbX`]WXY `ni `Ybhk]W_Y`bž i a X]Y `k]YXYf\c`hY `9bhghY\i b[`gc`WXYf `HfU[OX]Yb `ni `j Yf\]bXYfb"

8]YgYf'JcfZU```\Uh'b]W\h'bif'XUg'@YVYb'XYf'6YhfcZZYbYbž'gcbXYfbUiW\XUg'XYf'[YgUa hYb'; Ya Y]bgW\UZh'bUW\\U'h]['VYY]bZi ggh"'9g`]Y[h'Ub'i bg'U``Ybž'g]W\Yfni ghY``Ybž'XUgg'gc`W\Y'; Yk U`hU_hY']bNi_i bZh'b]W\h'a Y\f'j cf_ca a Yb"

6Ygi WXYb G]Y i bg Ui Z b!U["XY