

I gYXca . DUfUX]Yg cXYf; fUi Yb3 9]b\Y]a]gWXY fi ZYb ni 5i ZVfi WX Ui Z°

I f`Ui VYf`hY]`Yb`]\fY`9fZU\fi b[Yb`a]h'9]b\Y]a]gW\Yb`Ui Z I gYXca`]a '\$ b]`&\$&) "'?f]h]_Yb`i bX`dcg]h]j Y`6Yf]W\hY VY`Yi W\hYb`X]Y; UghZfYi bXgW\UZh"

< Ui d hghf UggY '(&ž'%+() - 'GYYVUX '? cgYfck ž'8 Yi hgWk `Ub X '!
8]Y '8]g_i gg]cb 'ØVYf'X]Y ; UghZfYi b XgWk UZh Ui Z'XYf'C ghgYY]bgY`
I gYXca 'b]a a h 'Ub '\(\Delta \) hY bg]hÀh ni ž'XU 'nU\ `fY]Wk Y 'Hci f]ghYbž
XUfi bhYf'Ui Wk 'GhYZUb 'H'''Ui g'6 UmYfbž']\ fY 'hY]`g'YbhhÀi gWk Yb XYb
9fZU\ fi b[Yb 'gWk]`XYfb"'@Ui h'BcfX_i f]Yf'i bX'Y]bY!fY]gY"XY
VYf]Wk hYb 'I f`Ui VYf'j cb 'i bZfYi bX`]Wk Yb '6Y[Y[bi b[Ybž
i bni fY]Wk Yb XYf'6YgWk]`XYfi b['Ub 'GhfÀb XYb'i bX'DfcV'Ya Yb'a]h
b]Wk h'Ub[Y`Y]bhYb' < i bXYb"'8]YgY'5gdY_hY'gcf[Yb'ZØf'[Ya]gWk hY
FØW_a Y`Xi b[Yb'j cb'GYfj Yfb'i bX'; ÀghYb"'</pre>

K À\fYbX'Y]b][Y'I f`Ui VYf'ØVYf'bY[Uh]j Y'9fZU\fi b[Yb'_`U[Ybž\YVYb'UbXYfYž'k]Y'X]Y': Ua]`]Y'Gd]Ygž'X]Y': fYi bX`]W_Y]h'XYf 9]b\Y]a]gW\Yb'\Yfj cf"'8]YgY'?cbhfUghY']b'XYf'K U\fbY\a i b[i bhYfghfY]W\Yb'X]Y'J]Y`ZU`h'XYf'9f`YVb]ggY'Ui Z'I gYXca "'Hfchn gY]bYf'gW\ObYb'@UbXgW\UZhYb'i bX'hci f]gh]gW\Yb'5hhfU_h]cbYbž'k]YXYa '(\$'?]`ca YhYf'`Ub[Yb'GhfUbX'i bX'XYb'VY`]YVhYb'CfhYbN]bbck]hn'i bX'<Yf]b[gXcfZž'V`Y]Vh'X]Y': fU[Y'bUW\'XYfhUhYb'i a ghf]hhYb"'

Dcg]h]j Y i bX bY[Uh]j Y 9fZU\fi b[Yb

8]Y'9f`YVb]ggY'j cb'GhYZUb'H"'g]bX'Xi fW\Ui g'dfÀ[bUbh"'9f VYf]W\hYh'j cb'i bZfYi bX`]W\Yb'FYU_h]cbYb'i bX'Y]bYf i bUb[YbY\a Yb'6Y[fػi b['VY]'gY]bYf'5b_i bZh']b'Y]bYf : Yf]Ybk c\bi b['bU\Y'K c`[Ugh"'@Ui h'BcfX_i f]Yf'_Ua Yb'VY] gY]bYf'UbZÀb[`]WXYb'9f_i bXi b['XYf'FY[]cbž'X]Y'i bhYf'UbXYfYa X]Y'A Ø\`Y'Ui Z'Di XU[`U'i bX'GWX`cgg'Ghc`dY'i a ZUgghYž'k Y]hYfY bY[Uh]j Y'6Y[Y[bi b[Yb'\]bni "'5i WX'<Y]bn'GWXi `n'Ui g'8 ØggY`XcfZ VYhcbh'Y]bY'U[[fYgg]j Y'; fi bXgh]a a i b['VY]'9]b\Y]a]gWXYb'i bX Yfk À\bh'UbghÒ»][Y'9f`YVb]ggY"'

 $\exists a \ ; \ Y[\ YbgUhn`XUni \ `Ai \ \ \ Yfb`g]WX\ j \]Y`Y`; \ AghYž'k \]Y`X]Y`: Ua \]`]Y$ $A \ U_ck \ Y`Ui \ g`XYa \ `F \ Y]b`UbXž'dcg]h]j \ `\emptyset VYf`] \ fY`9f`YVb]ggY"`G]Y$ $VYf]WX\ hYb \ j \ cb`bYhhYb`9]b \ Y]a \]gWXYb`i \ bX`Y]bYf`Ub[\ YbY \ a \ Yb \ 5ha \ cgd \ AfY`k \ A \ fYbX`] \ fYf`: U \ ffUXhci \ fYbž'k \ Ug`X]Y$ $A \ Y]bi \ b[\ gV]`XYf`k \ Y]hYf`X]ZZYfYbn]Yfh"`5`]bY`< Y]bf]WX \ ž`X]Y`bUWX \ I \ gYXca \ `[\ Ync[\ Yb`]ghž`VYgWXfY]Vh`] \ fY`Xi \ fWXk \ Y[\ `dcg]h]j \ Yb \ 9fZU \ fi \ b[\ Yb"`$

GWk]Yf][_Y]hYb i bX J YfVYggYfi b[gj cfgWk `A[Y

8]Y'DfcV'Ya Y'gWXY]bYb'b]WXh'bi f'gi V'Y_h]j 'ni 'gY]b"'9]b][Y
Hci f]ghYb'VYf]WXhYhYb'j cb'a]ggj YfghÀbX`]WXYb'6YgWX]`XYfi b[Ybž]bgVYgcbXYfY'VYnØ[`]WX':??!'i bX'<i bXYghfÀbXYbž'k Ug'cZh'ni
J Yfk]ffi b['ZØ\fh"'FcbU`X'Ui g'DchgXUa 'VYghÀh][h'X]Y'bY[Uh]j Yb
9fZU\fi b[Yb'a]h'<i bXYVYg]hnYfbž'k Ug'ni gÀhn`]WX'ni f
J Yfk i bXYfi b['ØVYf'X]Y'b]WXh'Ub[Y`Y]bhYb'<i bXY'VY]hfÀ[h"'7cf]bU
; Of`]hn'k Y]gh'Ui Z'X]Y'j Uf]]YfYbXYb'² ZZbi b[gnY]hYb']b'XYf
BYVYbgU]gcb'\]bž'X]Y'6Ygi WXYf'j cf'<YfUi gZcfXYfi b[Yb'ghY``Yb
_ObbYb"

 $: \emptyset f`FY]gYbXY\check{z}`X]Y`a Y\f`\emptyset VYf`X]Y` + bgY``YfZU\fYb`a ÒW\hYb\check{z}`V]YhYh X]Y` | gYXca `Hcif]gaig`; a V < `ia ZUggYbXY` + bZcfa Uh]cbYb`Ub"$

BYVYb'hci f]gh]gWXYb'DfcgdY_hYb'V]YhYh'X]Y'Cf[Ub]gUh]cb'Ui WX?cbhU_hXUhYb'Ubži a 'k Y]hYfY'8YhU]`g'ni 'Yf\U`hYb"'I gYXca 'V`Y]VhU`gc'Y]b'VY`]YVhYg'N]Y`a]h'fY]WX\U`h][Yb'A Ò[`]WX_Y]hYbž'Ui WXk Ybb'X]Y'9fZU\fi b[Yb'XYf'I f`Ui VYf'ghUf_'j Uf]]YfYb'_ÒbbYb"

8 Y hU]`g	
J cfZU``	Gcbgh][Yg
I fgUWX Y	Gcbgh][Yg
Cfh	<pre>< Ui dhghfUggY (&ž'%+() - 'GYYVUX'?cgYfck ž</pre>
	8 Ying W.`Ub X
Ei Y``Yb	• k k k "bcfX_i f]Yf"XY
	• Y]bY!fY]gY"XY
	• k k k "ZfYa XYbj Yf_Y\fgUa h"Wca

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