8fY]ZUWX a cfX']b'K Y]hYZY`X.'Dc`]nY]'^U[h Z`ØWX h][Yb'HÀhYfb'A Y]gbYf°

8fY]ZUW\a cfX`]b`K Y]hYZY`Xž`F\Y]b`UbX!DZU`n.`Dc`]nY]`ZU\bXYh bUW\`ZØW\h][Ya `HÀhYf`5`Y| UbXYf`A Y]gbYf"`<]bk Y]gY YfVYhYb°



K Y]hYZY`Xž'F\Y]b`UbX!DZU`nž'8Yi hgW\`UbX'!'5a '*"'5df]``&\$&)
k i fXY'X]Y'Dc`]nY]']b'K Y]hYZY`Xž'F\Y]b`UbX!DZU`nž'U`Ufa]Yfhž
bUW\XYa 'Y]bY': Ua]`]Y']b']\fYa 'K c\b\Ui g'hch'Ui Z[YZi bXYb
k i fXY"'8]Y'CdZYfž'Y]b'(+!'À\f][Yf'A Ubbž'Y]bY'((!'À\f][Y': fUi 'i bX
]\f'%*!'À\f][Yf'Gc\bž'k i fXYb'cZZYbVUf'Yfa cfXYh"'8Yf
<Ui dhj YfXÀW\h][Y']gh'Y]b'* %!'À\f][Yf'A Ubb'bUa Ybg'5`YI UbXYf
A Y]gbYf'Ui g'Y]bYa 'BUW\VUfcfhž'XYf'gY]h'XYa 'J YfVfYW\Yb'Ui Z'XYf
: `i W\h']qh"

Hfchn'i a ZUb[fY]WXYf'Gi WXU_h]cbYb'i bX'XYf'5i Zfi Z'ni f
6Yj Ò`_Yfi b[ž'<]bk Y]gY'ni '[YVYbž'[]Vh'Yg'XYfnY]h'_Y]bY'bYi Yb

\$\darklet Zcfa Uh]cbYb'\@VYf'A Y]gbYfg'5i ZYbh\U`hgcfh''8Ug'K c\b\Ui g'XYg

JYfXÀWXh][Yb'k i fXY'ni bÀWXgh'Z\@f'9fa]hh`i b[Yb'[YgdYffhž']gh

a]hh`Yfk Y]`Y`YXcW`k]YXYf`ZfY][Y[YVYb"`I a `Y]b`&)
Ei UXfUh_]`ca YhYf`[fc» Yg`K U`X[YV]Yh`ni `Xi fW\gi W\Ybž`gYhnh`X]Y
Dc`]nY]`a cXYfbY`HYW\bc`c[]Yb`Y]b"`6]g`Ub[`_cbbhYb`U``YfX]b[g
_Y]bY`bYi Yb`<]bk Y]gY`[YZ bXYb`k YfXYb"

$: U \setminus bXi b[ibX <]bk Y]gY$

8]Y'9fa]hh`Yf'\UVYb'ØVYf'%"' \$\$'<]bk Y]gY'Ybh[Y[Yb[Ybca a Ybž YXcW\'c\bY'YbhgW\Y]XYbXYb'8ifW\Vfi W\']a ': U``"'6`i hgdi fYb'Ua HUhcfh'`Y[Yb'bU\Yž'XUgg'A Y]gbYf'a Ò[`]W\Yfk Y]gY'j Yf`Yhnh']ghž'k Ug X]Y': U\bXi b['ni gÀhn`]W\'YfgW\k Yfh"'8]Y'Dc`]nY]'\Uh'ZØf gUW\X]Yb`]W\Y'<]bk Y]gY'ni f'9f[fY]Zi b['XYg'HÀhYfg'Y]bY 6Y`c\bi b['j cb'%\$"\$\$\$'9i fc'Ui g[YgYhnh"

8]Y 'ÒZZY bh']WX Y 'Gi WX Y 'bUWX 'A Y]gbYf'\Uh']b' XYf'N8: !GYbXi b[
5_hYbnY]WX Yb'L Mi b[Y`Ògh 'ghUhh[YZ bXYbž'k cXi fWX 'bYi Y

<]bk Y]gY 'Ui g' XYa '6Y_UbbhYb_fY]g' XYg'J YfXÀWXh][Yb'[Ya Y`XYh ki fXYb"'A Y]gbYf'k]fX'U'g'a Àbb`]WX ž'%ž+('A YhYf'[fc» ž'+(
?]`c[fUa a 'gWX k Yfž'a]h'VfUi bYb'< UUfYb'i bX'V`Ui ![fUi Yb'5i [Yb VYgWX f]YVYb"'9f'\Uh'a Y\fYfY'BUfVYb'i bX'Y]b'HUhhcc'a]h'XYa BUa Yb' ?Uh'U ']b'fi gg]gWXYf'GWX fY]Vk Y]gY"

2 ZZY b h`]WX Y A]h\]`ZY 'Y f V Y hY b

8]Y'Dc`]nY]'\Uh'Y]b'<]bk Y]ghY`YZcb'Y]b[Yf]W\hYhi bX'UddY``]Yfh'UbX]Y'6Yj O`_Yfi b[ž'YXY'±bZcfa Uh]cbž'X]Y'ni f': YghbU\a Y'j cb5`YI UbXYf'A Y]gbYf'ZØ\fYb'_ObbhYž'ni 'a Y`XYb"'8]Y': U\bXi b[V`Y]Vh'Y]bY'XYf'Df]cf]hÀhYb'XYf'9fa]hh`i b[gVY\OfXYbž'V]g'XYfa i ha U»`]W\Y'HÀhYf'[YZUggh'k]fX"'6]g'XU\]b'V`Y]Vh'i b[Yk]ggž'k]Yg]W\'XYf': U```kY]hYfYbhk]W_Y`b'k]fX"'@Ui h'gi YXk Ygh&("XYVfUi W\h'X]Y'Dc`]nY]'Xf]b[YbX'I bhYfghØhni b['VY]'XYf'Gi W\Y'bUW\A Y]gbYf"

Ni gàhn`]W\ `ni `XYb`V]g\Yf][Yb`6Ya \emptyset \i b[Yb`\c\ZZh`X]Y`Dc`]nY]ž`XUgg X]Y`i a\ ZUggYbXY`6Yf]W\ hYfghUhhi b[`]b`XYb`A\YX]Yb`i bX`X]Y 6YhY]`][i b[`XYf`^2\ZZYbh`]W_Y]h``YhnhYbX`]W\ `ni `YbhgW\Y]XYbXYb <]b\k\Y]gYb`Z \emptyset \fYb`_0bbhYbži a\ `X]YgYb`YfgW\ \emptyset hhYfbXYb`: U```ni `OgYb"`K\Y]hYfY`8\YhU]`g`_0bbYb`Ui\Z`gd]Y[\Y`"X\Y`Y]b[\YgY\Yb

8 YhU]`g	
Cfh	KY]hYZY`XžF\Y]b`UbX!DZU`nž8YihgW\`UbX
EiY``Yb	• k k k "gi YXk Ygh&("XY
	k k k "gd]Y[Y`"XY

6Ygi WXYb G]Y i bg Ui Z a Y]b!k]Yb bYh