

BYi Y 6YghUhhi b[gfÀi a Y]b : fY]g]b[. 6Ygi W Yb G]Y 5bhcb K]a a Yf 6YghUhhi b[Yb°

9f`YVYb`G]Y`X]Y`9fÒZZbi b[`XYg`bYi Yb`GhUbXcfhg'j cb`5bhcb K]a a Yf`6YghUhhi b[Yb`]b`XYf`I bhYfYb`< Ui dhghfU» Y`&(`]b : fY]g]b[`Ua`&"`Bcj Ya VYf°`6Ygi W\Yb`G]Y`i bg'j cb`, `V]g`%* I\fži a`X]Y`a cXYfbYb`FÀi a`]W_Y]hYb`_YbbYbni `YfbYb i bX`g]W\` \emptyset VYf`6YghUhhi b[gj cfgcf[Y`ni `]bZcfa]YfYb"`\=\f 5bgdfYW\dUfhbYf`]b`gW\k\YfYb`NY]hYb``_ca dYhYbh`i bX Y]bZ \emptyset \`gUa "



5i Z[YdUgghž: fY]g]b[°'9]b'bYi Yg'? Ud]hY`ZØfX]Y 6YghUhhi b[g_i`hi f'\Uh'VY[cbbYb"5bhcb'K]a a Yf 6YghUhhi b[Yb'YfÒZZbYh'Y]bYb'VfUbXbYi Yb'GhUbXcfhžXYf b]WX h'bi f'nYbhfU`[Y`Y[Yb']ghž'gcbXYfb'Ui WX'Y]b'NY]WXYb gYhnh° ± XYf'I bhYfYb'< Ui dhghfU» Y'&(ž'ghfU\`h'Y]b'a cXYfbYg
6YghUhhi b[g\Ui gž'XUg'gY]h'%-+\$'A YbgW\Yb']b'gW\k YfYb'NY]hYb
ni f'GY]hY'ghY\h"'8]YgYg'bYi Y'⇒ k Y``]a '< YfnYb'j cb': fY]g]b['k]fX
UV'XYa '("'Bcj Ya VYf'gY]bY'HØfYb'ÒZZbYb'i bX'V]YhYh'XYb
5b[Y\Òf][Yb'i bX'J cfgcf[YbXYb'Y]bY'5b`Ui ZghY``Yž'X]Y'_Y]bY
K ØbgW\Y'cZZYb`Àggh"

HU['XYf'cZZYbYb'HØf' '9bhXYW_Y'X]Y'bYi Yb FÀi a `]WX_Y]hYb°

Ni f'ZY]Yf`]WXYb'9fÒZZbi b['Ua 'GUa ghU[ž'XYb'&"'Bcj Ya VYfž'g]bX U``Y'\Yfn`]WX'Y]b[Y`UXYbž'X]Y'\Y``Yb'i bX'Y]b`UXYbXYb FÀi a `]WX_Y]hYb'ni 'Yf_i bXYb°'Jcb', 'V]g'%* 'I \f'\UVYb'X]Y 6Ygi WXYf'X]Y'A Ò[`]WX_Y]hž'XUg'Yb[U[]YfhY'HYUa '_YbbYbni `YfbYb i bX'g]WX'ØVYf'U``Y'5gdY_hY'XYf'6YghUhhi b['i bX'Jcfgcf[Y'ni]bZcfa]YfYb"

K]f a OW hYb XYb Hc X 'U `g 'HY] ` 'XYg '@YVYbg ']bg NYbhfi a 'XYf ; YgY ``gW UZh fØW_Yb i b X '6 YfØ\ fi b [gÀb [ghY 'U V V U i Yb ž 'Yf_ `Àfh Y]b `Y]XYbgW UZh `]W Yf : Y`]I 'A U» \Y]a Yfž'; YgW À ZhgZØ\ fYf j cb a ma cf]U" '8]YgYf b Y i Y 'GhUb X cfh ']gh 'b]W h b i f 'Y]b Y '5 XfYggYž gcb XYfb 'Y]b 'C fh XYf '6 Y[Y[b i b [ž XYg '8]U `c [g i b X XYg F YgdY_hg"

9]b`UXi b['ni f'6Yg]W\ h][i b[' ': Øf'XUg `Y]V`]W\ Y'K c\`']gh'[Ygcf[h°

8]Y'bYi Ybž`]W\hXi fW\Zi hYhYb'FÀi a Y'g]bX'gc'[YghU`hYhž'XUgg'g]Y VY]'; YgdfÀW\Yb'a]h'5b[Y\Òf][Yb'Y]bY'Y]b`UXYbXY'i bX VYfi \][YbXY'5ha cgd\ÀfY'gW\UZZYb"'5bhcb'K]a a Yf'6YghUhhi b[Yb]gh'bi b'bcW\'bÀ\Yf'Ub'XYb'A YbgW\Ybž'VYfY]hž'I bhYfghØhni b[Ubni V]YhYbž'k Ybb'q]Y'Ua 'Xf]b[YbXghYb'VYbÒh][h'k]fX" 5V'XYa '("'Bcj Ya VYf'k]fX'XUg'6YghUhhi b[g\Ui g'XUbb'a cbhU[g V]g'ZfY]hU[g'j cb', .\$\$'V]g'%*.' \$'I \f'[YÒZZbYh'gY]b"'I bX']b HfUi YfZÀ``Yb3'8Ug'HYUa ']gh'fi bX'i a 'X]Y'I \f'hY`YZcb]gWX YffY]WXVUf' 'YXYfnY]h'ZØf'G]Y'XU°

: Øf:: fU[Yb i b X ?? c b hU_hY.
5 b h c b 'K]a a Yf 6 YghUhhi b[Yb
I b h Yf Y < Ui d h gh f U » Y '& (ž',) ') (': f Y]g]b[
H Y `". '\$, %* %'* & \$ + %
A U] `. 'k]a a Yf! V Ygh Uhhi b[Yb 4 a ma c f] U"XY</pre>

¸ VYfa ma cf]U.

a ma cf]U^]gh'Y]b^J cffY]hYf^]b^XYf^X][]hU^Yb^6YghUhhi b[g!^i bX J cfgcf[Yd^Ubi b["'8 Ug^I bhYfbY\a Yb^V]YhYh^XYb^<]bhYfV^]YVYbYb X]Y^A $O[^*]WX_Y]hZY'BY'6YghUhhi b[^*Y]bZUWX^i bX^hfUbgdUfYbh^cb^]bY ni 'd^UbYb"^GY]h^&$%^* \Uha ma cf]U^X]Y^5fh^i bX^K Y]gYZ^k]Y^k]f <math>\emptyset$ VYf^HcX^i bX^5VgWX]YX^XYb_YbZ^fYj c^i h]cb]Yfh"

A]h'bi b'(+'GhUbXcfhYb'i bX'Y]bYa 'Yb[U[]YfhYb'HYUa 'j cb'%+\$ A]hUfVY]hYbXYb'ghY``h'a ma cf]U'g]W\Yfž'XUgg' \Rightarrow bYb'b]W\hg'a Y\f']a K Y['ghY\hž'i a 'g]W\'i a 'XUg'K YgYbh`]W\Y'ni '_Øa a Yfb"

.

8 YhU]`g

6Ygi WXYb G]Y i bg Ui Z. a Y]b!VYf`]b bYh