

## FY]gY!<][\`][\h'&\$&).', VYf'%\$\$'X]fY\_hY :`Ø[Y'UV':`i[\UZYb'@ilYaVif[°

9bhXYW\_Yb'G]Y'&\$&)'ØVYf'%\$\$'FY]gYn]Y`Yb'UV': `i [\UZYb @ilYa Vif["'H]ddg'ZØf'[Øbgh][Y': `Ø[Y'ibX']XYU`Y 6i W\ib[ga O[`]W\\_Y]hYb'k UfhYb'Ui Z'G]Y°



: `i [\UZYb'@ilYa Vif[ž'@ilYa Vif['!8\ff: `i [\UZYb @ilYa Vif['!8\ff: `i [\UZYb @ilYa Vif['fl]b\XY\E'k]f\X']a \did \did \frac{1}{2}\

=a 'Gca a Yf'&\$&) 'k ]fX'XYf': `i [\UZYb'GUUfVfØW\_Yb'`YX][`]WX'nY\b N]Y`Y'i bX'XfY]'GcbXYfXYgh]bUh]cbYb'UbV]YhYbž'k À\fYbX'XYf : `i [\UZYb'@||Ya Vi f['ØVYf'' \$'@\bXYf'UbghYi Yfh''

## $J]Y^ZU^hXYf^FY]gYn]Y^Y$

8]Y'8]fY\_hZ'Ø[Y'UV'XYa': `i [\UZYb'@ilYa Vi f['ZØf'&\$&) 'i a ZUggYb Y]bY'VfY]hY'DU`YhhY'Ub'N]Y`Yb']b'j YfgW\]YXYbYb'FY[]cbYb.

- 9i fcdU.: `Ø[Y'bUWX'6i `[Uf]Ybž8Yi hgWX`UbXž'8ÀbYa Uf\_ž: ]bb`UbXž': fUb\_fY]WXž'; f]YWXYb`UbXž': #`UbXž': #\U`)Ybž
  ? fcUh]Ybž'A U`hUž'A cbhYbY[fcž'XYb'B]YXYf`UbXYbž
  Bcfk Y[Ybž'² ghYffY]WXž'Dc`Ybž'Dcfhi [U`ž'Fi a Àb]Ybž
  GWXk YXYbž'XYf'GWXk Y]nž'GYfV]Ybž'G`ck Yb]Ybž'GdUb]Ybž
  HgWXYWX]Ybž'XYf'HØf\_Y]ž'I b[Ufb'i bX'XYa 'JYfY]b][hYb
  ? Ob][fY]WX"
- 5 Zf]\_U.: `Ø[Y'bUWX'A Ufc\_\_cž'?Ud'JYfXYž'Hi bYg]Ybž Ÿ[mdhYb'i bX'GYbY[U`"
- 5g]Yb. '8] $fY_hZ\emptyset[Y'ni 'XYb'JYfY]b][hYb'5fUV]gWXYb$  9a] $fUhYb'ibX'7\]bU"$

6Y`]YVhY`N]Y`Y`]b`9i fcdU`g]bX``Ui h``i I hcXUm"`i `]bgVYgcbXYfY`XUg JYfY]b][ hY`? Ob][ fY]WXž'8Yi hgWX`UbXž'Dcfhi [ U`ž'X]Y`B]YXYf`UbXY i bX`: fUb\_fY]WX"'8Yf``Àb[ ghY`8]fY\_hZi [ 'j cb`@i I Ya Vi f[ 'ZØ\fh bUWX`8i VU]`i bX`XUi YfhYhk U`\* 'Ghi bXYb`i bX'') 'A ]bi hYb"

## : `i [\UZYb]bZfUghfi \_hi f'i bX Bi hni b[gVYX]b[i b[Yb

8 Yf: `i [\UZYb`Z]bXYb`g]W\`bi f`, `?]`ca YhYf`Ògh`]W\`XYg GhUXhnYbhfi a gʻj cbʻ@ l Ya Vi f["'9f`]ghʻa ]hʻ%+ʻj YfgW\]YXYbYb : `i [[YgY``gW\UZhYb'j YfVi bXYbž`XUfi bhYfʻ@ l U]fž`F mUbU]fž @ Zh\UbgUʻi bX`?@A ž`X]Y`[Ya Y]bgUa `X]Y`6YXØfZb]ggY`XYf FY]gYbXYb`UVXYW\_Yb"`DUggU[]YfY`gc``hYb`g]W\`Ya dZY\`Yb``UggYbž a ]bXYghYbgʻnk Y]`Ghi bXYb`j cf`5VZi [`Ua`: `i [\UZYb`ni `gY]bži a Y]bYb`fY]Vi b[g`cgYb`5V`Ui Z`ni `[Yk À\f`Y]ghYb"

: Øfini gÀhn`]W\Ybi?ca Zcfh'V]YhYh'XYf': `i [\UZYbi\_cghYb`cgYg'K]!:] gck]Yi7ca di hYfhYfa]bU`g'a]h' ⇒hYfbYhni [Ub["Ni XYa ighY\Yb HY`YZcbnY``Ybi]a i[YgUa hYbiHYfa]bU`[YVÀi XY'ni f'JYfZØ[i b["

## H]ddg'nif': `i[ViWib[

6Y] XYf 'D`Ubi b[ 'j cb': `Ø[ Yb'UV'XYa ': `i [ \UZYb'@ | Ya Vi f[ Ya dZ]Y\`h'Yg'g]W\ž'X]Y'DfY]gY'j YfgW\]YXYbYf': `i [ [ YgY``gW\UZhYb'ni j Yf[ `Y]W\Yb'i bX'Cb`]bY!8]YbghY'k]Y'G\_mgWUbbYfž'? UmU\_'i bX; cc[ `Y': `][ \hg'ni 'bi hnYb"'| a 'j cb'XYb'[ Øbgh][ ghYb': U\fdfY]gYb ni 'dfcZ]h]YfYbž'g]bX'6i W\i b[ Yb'i bhYf'XYf'K cW\Yž'VY]gd]Y`gk Y]gYUa '8]YbghU[ 'cXYf'A]hhk cW\ž']b'XYf'FY[ Y`'j cfhY]`\UZh"'8]Y6Ybi hni b[ 'gY\_i bXYf': `i [ \ÀZYb'\_Ubb'YVYbZU``g'9]bgdUfi b[ YbVf]b[ Yb"

±g[YgUa h'V]YhYh'XYf': `i [\UZYb'@||Ya Vi f[']a '≯J\f'&\$&) 'Y]bY\Yfj cffU[YbXY'; Y`Y[Yb\Y]h'ZØf'FY]gYbXY'Ui g'XYf'FY[]cbž'g]W\']bX]Y'K Y`h'ni 'VY[YVYbž'i bX'ghY``h'Y]bY'VYXYi hYbXY'8fY\gW\Y]VYZØf']bhYfbUh]cbU`Y': `Ø[Y'XUf"

 $: \emptyset f'k Y]hYfY' + bZcfa Uh]cbYb'i bX'U_hi Y``Y'BUWkf]WkhYb'ni': `\emptyset[YbibX'N]Y`Yb'VYgi WkYb'G]Y'X]Y'GY]hY'j cb'gc`"XY'i bX'`i I hcXUm"`i"$ 

8YhU]`g	
Cfh	: `i [\UZYb`@ Ya Vif[ž'@ Ya Vif[
EiY``Yb	• k k k "gc`"XY
	• `i I hc X Um"`i

6 Ygi WX Yb 'G]Y 'i bg 'Ui Z 'Y]bY!fY]gY "XY