

## 9bhXYW\_Yb'G]Y'K ]Ybg'VYghY D]W\_b]W\_d`ÀhnY'ZØf'i bj Yf[ Ygg`]WXY A ca YbhY°



K ]Ybž'² ghYffY]W '! '8]Y 'k Ufa YfYb 'HU[ Y 'Vf]b[ Yb 'b]W h'bi f'X]Y :  $f\emptyset \ `]b[ gV `\emptyset hY ž : gcb XYfb 'Ui W 'XUg 'J Yf `Ub[ Yb 'bUW 'Y]bYa Yb hgd Ubb hYb 'D]W_b]W_" '\ b 'K ]Yb '[ ]Vh 'Yg 'XUZØf 'nU\ `fY]W Y 'D`ÀhnYž X]Y ']XYU `\ 'g]b Xž'i a 'X]Y '[ fØbY 'B Uhi f'ni '[ Yb]Y \ Yb 'i bX 'XUVY] j ]Y``Y]W h'XUg 'Y]bY 'c XYf 'Ub XYfY '\_i `]b Uf]gW Y '< ][ \`][ \h'Ui g 'XYf FY[ ]cb 'ni 'dfc V]YfYb '' K ]Y'; Ughfc "b Yk g 'VYf]W hYhž 'g]b X 'X]Y A <math>O[\ `]W _Y]hYb 'ZØf'D]W_b]W_g ']b 'K ]Yb 'b U\Yni '[ fYbnYb `cg"$ 

 $C\ Vk\ c\ ``K\ ]Yb\ 'Y]bY\ '[\ fc\ \ Y\ 'GhUXh']ghž'j\ YfZ\emptyset[\ h'g]Y\ '\emptyset VYf\ 'Y]bY\ 'J\ ]Y\ `nU\ `Ub\ 'B\ U\ Yf\ c\ i\ b[\ g[\ YV]YhYbž'X]Y\ 'g]Wk\ 'k\ i\ bXYfVUf\ 'Z\emptysetf'Y]b\ 'D]W_b]W_']a : fY]Yb\ 'Y][\ bYb'' '8\ Yf\ '6i\ f[\ [\ UfhYb\ 'VY]gd]Y\ `gk\ Y]gYž'nYbhfU``[\ Y\ YY[\ Yb\ i\ bX\ 'bi\ f'Y]bYb\ 'GhY]bk\ i\ fZ'j\ cb\ 'XYf' < c\ ZVi\ f[\ 'YbhZYfbhž'\ `AXh'Y]bž$ 

gdcbhUbY'A]hhU[gdUigYb']a; fØbYb'ni'jYfVf]b[Yb"'8Yf'fi\][YHØf\_YbgW\UbndUf\_'a]h'gY]bYb'jYfk]b\_Y`hYb'KY[Yb'V]YhYh'Y]bYfcaUbh]gW\Y'?i`]ggY'ZØf'fi\][Y'BUW\a]hhU[Y'a]h'GbUW\_g'ibXY]bYa'6iW\"

## 6Y`]YVhY'D]W\_b]W\_d`AhnY']b'K ]Yb

Ni 'XYb'VY`]YVhYqhYb'D]Wb]Wd`AhnYb'nA\`Yb'ni XYa.

- ? U]gYfk UggYf. '9]b 'C fh'XYf'9bhgdUbbi b[žk c'a Ub gWk]a a Yb'cXYf'GhY]bY'gUa a Y`b'\_Ubb"
- 5 i Yf!K Y`gVUWX!DUf\_. '9]b'i bhYfgWXÀhnhYf'DUf\_ž'XYf'g]WX dYfZY\_h'ZØf'`Ub[Y'D]W\_b]W\_bUWXa ]hhU[Y'Y][bYh"
- 5a '< ]a a Y`.'< ]Yf'[Yb]Y» h'a Ub'Y]bYb'Y]bn][Ufh][Yb'6`]W\_Ui Z'X]Y'GhUXh'i bX'X]Y'i a `]Y[YbXYb'K Y]bVYf[Yž VYgcbXYfg'a U[]gWX'Ua '5VYbX"
- GhUXhdUf\_.~6Y\_Ubbh~ZØf~X]Y~≈\Ubb!GhfUi»!GhUhi Yž~V]YhYh X]YgYf~DUf\_~Ui WX~fi \][Y~9W\_Yb~ni a ~9bhgdUbbYb"
- GhY]b\cZ[fØbXY. "⇒XYU` ZØfY]bY 5i gnY]h ]b i bVYfØ\fhYf BUhi f'a ]h 6`]W\_'Ui Z'XYb K ]YbYfk U`X"

K ]Y 'Ui W. 'k ]Y b "]b Zc 'Uba Yf\_hž']gh'XUg'D]W\_b]W\_Yb']b'j ]Y `Yb'DUf\_g Yf`Ui Vh'i bX'Yg'[]Vh'nU\`fY]W\Y'@c\_U`Yž'X]Y'D]W\_b]W\_!? ÒfVY'ni a A ]hbY\a Yb'UbV]YhYb"Ni 'XYb'VYgcbXYfg'Ya dZc\`YbYb 5b[YVchYb'[Y\ÒfYb'X]Y'D]W\_b]W\_\_ÒfVY']a 'FYghUi fUbh'<Yfa Yg']b XYf'<Yfa Ygj]``U'gck]Y']a 'FYghUi fUbh'6i f[f]b[ž'k c'X]Y'? ÒfVY ]b\_`i g]j Y'8YW\_Y'Ub[YVchYb'k YfXYb"

## Fca Ubh]gWXY'D]W\_b]W\_!9f`YVb]ggY

K Yf'Yg'VYgcbXYfg'fca Ubh]gW\'a U[ ž'gc``hY'Y]bYb'5i gZi [ ']b'X]Y
K ]YbYf'K Y]bVYf[ Y'i bhYfbY\a Yb"'D`ÀhnY'k ]Y'XYf'Bi ggVYf[ ž
?U\`YbVYf[ 'i bX'7cVYbn``V]YhYb'b]W\h'bi f'Y]bY'UhYa VYfUi VYbXY
5i gg]W\hž'gcbXYfb'Ui W\'j YfgW\]YXYbghY'< Yi f][ Yž'X]Y'D]W\_b]W\_!
?ÒfVY'UbV]YhYb"'8 Ug'FY]gYV`c[ 'XYf'² 66'Ya dZ]Y\`h'XUni 'XYb
K Y]b[i h'7cVYbn`ž'k c'D]W\_b]W\_!?ÒfVY'cb`]bY'VYghY``h'k YfXYb
\_ÒbbYb"

: Øf Y]b D]W\_b]W\_'Ua 'K UggYf g]b X 'X]Y '8 cbUi ]bgY`c XYf 'X]Y '5 hY 8 cbUi ]XYU`Y 'C fhY "'6 Ygcb XYfg 'gd UbbYb X 'g]b X 'X]Y '5 b[ YVchY 'XYf 6 cchgj Yfa ]Yhi b[ 'A Y]b Y + bgY` ž'k c'a Ub']b 'Y]b Ya '6 cch'Ui Z'XYa K UggYf 'd]W\_b]W\_Yb'\_Ubb"'9]b 'YWXhYg '9f`YVb]g 'ZØf'DUUfY'i bX; fi ddYb°

 $9[\ U`\check{z}'k\ c`G]Y`g]W\&`]b`K\ ]Yb`YbhgW\&Y]XYb\check{z} \\ = f`D]W\_b]W\_`ni `[\ Yb]Y``Yb\check{z} \\ X]Y`Y]bn][\ Y`J\ cfUi\ ggYhni\ b[\ ']gh\check{z}'Y]bY`8YW\_Y\check{z}``YW\_YfY`GbUW\_g`i\ bX \\ [\ i\ hY`;\ YgY``gW\&UZh`Y]bni\ dUW\_Yb''`K\ ]Yb`V]YhYh`X]Y`dYfZY\_hY`?i\`]ggY\check{z} \\ i\ a\ `XYa\ `5``hU[\ 'ZØf`Y]bYb`A\ ca\ Ybh`ni\ 'YbhZ]Y\Yb'i\ bX`X]Y \\ GW\&Ob\Y]h`XYf`GhUXh`]b`j\ c``Yb`NØ[\Yb'ni\ [Yb]Y``Yb''$ 

8 Y hU]`g	
Cfh	K ]Ybž <sup>2</sup> ghYffY]W
EiY``Yb	<ul><li>kkk"[Ughfc"bYkg</li></ul>
	• k k k "k ]Yb"]bZc
	<ul><li>k k k "i bgYfYcYVV"Uh</li></ul>

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