

## 8]Y'l G!FY[]Yfi b[``Y\bh`XYb ?i bXYbfØW\_nU\`i b[gj cfgW\`U['j cb 6]hhfYl 'UV

8YfJYfgi WX jcb6]hhfYlž?ibXYb[Y`XYf`nifØW\_ni[YVYbž qh]Y» ']b 'XYb 'J YfY]b][ hYb 'GhUUhYb 'Ui Z'Yf\YV`]WXY  $< ]bXYfb]qqYžkUq'6YXYb_Yb'\]bq]W\h`]W\XYf$ jcf[YgWX`U[YbYb'@Òqib['ZØf'XYb' +bqc`jYbnZU``'XYf'?fmdhc! 6 OfgY 'Ui Z\_ca a Yb ``]Y » "'8 Ug'l bhYfbY \a Yb 'VYUbhfU[hY ']a A U] `]b `8 Y`Uk UfY `=bgc`j YbngW\i hn 'bUW\ '? Ud]hY` '%%ž'k Yb][ Yf U`g`Y]bYb'AcbUh'bUWXYa X]Y'I G!6ÒfgYbUi Zg]WXh'G97'XUg I bhYfbY\a Yb'k Y[Yb'6Yhf]YVYg'Y]bYf'b]W\h'fY[]ghf]YfhYb 6 OfgY Ub [Y\_`U[h`\UhhY"NkY]kY]hYfY; YgW\AZhgVYfY]W\Y` 6]hhfYI 'A U`hU'@hX"'i bX'6]hhfYI 'A U`hU'<c`X]b[g'@hX"' VYUbhfU[hYb'YVYbZU``g'=bqc`jYbngWihn'VY]a'IG! Ua Yf]\_Ub]gW\Yb \=bqc\j Ybn[Yf]W\h\Z\Øf\XYb\6Yn]f\_\8Y\Uk UfY" 8 Y f '? fmd hc! 5 V hY] i b [ 'X Y q I b hY f b Y \ a Y b q 'k ] f X ' j c f [ Y k c f Z Y b ž [Y[Yb.6ibXYq[YqYhnYžY]bqWX.]Y)"]WX.XYq 6Ub\_[Y\Y]a b]q[YqYhnYqžijYfqhc»Ybini \UVYbiibX ; YgWAZhYa]h5ig`AbXYfb]bgUb\_h]cb]YfhYb@AbXYfb / Ua d/Y``]d/



8 Yf'J Yfgi W\'j cb'6]hhfYl ž'?i bXYb[Y`XYf'ni fØW\_ni [YVYbž'gh]Y\']bXYb'J YfY]b][hYb'GhUUhYb'Ui Z'Yf\YV`]W\Y'<]bXYfb]ggYž'k Ug6YXYb\_Yb'\]bg]W\h`]W\'XYf'j cf[YgW\`U[YbYb'@Ògi b['ZØf'XYb\bgc'j YbnZU``XYf'?fmdhc!6ÒfgY'Ui Z\_ca a Yb'`]Y\'"

 $8 \ Ug'l \ bhYfbY\ a \ Yb'VYUbhfU[\ hY']a \ 'A \ U]']b'8 \ Y`Uk \ UfY \\ \pm gc`j \ YbngWki \ hn'bUWk'? Ud]hY`'%%ž'k \ Yb][\ Yf'U`g'Y]bYb'A \ cbUh \\ bUWk \ XYa \ 'X]Y'l \ G!6 OfgYbUi \ Zg]Wk h'G97'XUg'l bhYfbY\a Yb'k \ Y[Yb 6Yhf]YVYg'Y]bYf'b]Wk h'fY[]ghf]YfhYb'6 OfgY'Ub[Y_`U[h'\UhhY''Nk Y] \\ k \ Y]hYfY'; \ YgWk AZhgVYfY]Wk Y'' '6]hhfYl 'A U`hU'@hX'''i bX'6]hhfYl 'A U`hU < c`X]b[g'@hX''' 'VYUbhfU[hYb'YVYbZU``g'\pgc`j YbngWki hn'VY]a 'l G! \\ Ua \ Yf]_Ub]gWk Yb'\pgc`j Ybn[Yf]Wk h'ZØf'XYb'6Yn]f_'8 Y`Uk UfY''$ 

8 Yf'? fmd hc!5 VhY]`i b[ 'XYg'l bhYfbY\a Ybg'k]fX'j cf[ Yk cfZYbž [ Y[ Yb'6i bXYg[ YgYhnYž'Y]bgW\`]Y»`]W\ 'XYg 6Ub\_[ Y\Y]a b]g[ YgYhnYgž'j Yfghc» Yb'ni '\UVYb'i bX'; YgW\ÀZhY'a ]h 5i g`ÀbXYfb']b'gUb\_h]cb]YfhYb'@AbXYfb'ni 'hÀh][ Yb"

## 9]bgdfi WXg[fØbXY XYf I G!FY[]Yfi b[

8 Yf '9]bgdfi W. 'XYf'I G!FY[]Yfi b['[Y[Yb'XYb'JcfgW.\u]'jcb6]hhfYl ž'XYf'XUfUi Z'UVn]Y\hž'XYb'?i bXYb'ni 'YbhgW.\AX][Ybž']gh'Y]bkY]hYfYf'gWXkYfYf'GWX\u['i bX'k]fX'U\g'\_ccfX]b]YfhYf'JYfgi W. Ub[YgY\Ybž'X]Y'6fUbWXY'ni 'jYfghØa a Y\bž'c\bY'X]Y'5b\Y[YfhUhg\AW\\]WX'ni 'gW\ØhnYb"

HUhgÀWX`]WX 'k Uf'VY\_Ubbhž'XUgg'XYf'GhUUh'?fmdhc!

±bgc`j Ybnj cfgWX`À[Y'j YfY]hY`hY"'5`g': c`[Y'ghUUh`]WXYf'9]b[f]ZZY'nc[
g]WX'6]bUbWY"I G'Ui g'XYa '%!A]``]UfXYb!8c``Uf!8YU``XYg'VUb\_fchhYb
?fmdhc!?fYX]h[YVYfg'J cmU[Yf'8][]hU`'ni a '?Ui Z'gY]bYf
JYfa Ò[Ybgk YfhY'ni fØW\_i bX'j Yfk]Yg'Ui Z'Y]b' i bg]WXYfYg
fY[i `Uhcf]qWXYg'?`]a U "

±b°XYf°; Yf]WX hgU\_hY°XYf°FY[]Yfi b[°j ca °A]hhk cWX°\Y]» h°Yg.

8]Y'GW\i`XbYf'\UVYb'b]W\h'XUf[Y`Y[hž'k Ufi a 'X]Y 9][Ybhi a gZfU[Yb'Ub'?fmdhck À\fi b[gUb`U[Yb'j cf'XYf 6YghÀh][ib['XYg'D`Ubg'[Y\_`Àfh'k YfXYb'a ØggYb"'GW\`]Y»`]W\']gh'Yg ibUb[Ya YggYbž'; `ÀiV][Yf'Ui»Yf\U`V'XYf'5b\Òfib['nif 6YghÀh][ib[']b'bUW\fUb[][Y'?`UggYb'Y]bnihY]`Yb"'5ig'X]YgYb; fØbXYbž'X]Y'k Y]hYf'ibhYb'UigZØ\f`]W\Yf'YfÒfhYfh'k YfXYbž'aigg XYf'5bhfU['UV[Y`Y\bh'k YfXYb"

 $\pm 0^{\circ}XYf^{\circ}f^{\circ}FY[]Yfib[YfY]WhYb^{\circ}; Yf]WhgU_hY^{\circ}Y] hYg^{\circ}a$  9]bnY^bYb^ni a '9]bgdfi Wkg[fibX.

- 9g']gh'j YfZfØ\h/
- 9g'k]fX'i bfYWkha À»]['j Yfgi Wkhž'; 'Ài V][Yf'Ui »Yf\U'V Y]bYg'D'Ubg'i bhYfni cfXbYb

## 8 Ug V]hhYfY 9b XY j cb 6]hhfYl ]b XYb J YfY]b][ hYb GhUUhYb

6]hhfYI 'k Uf'Y]bgh'Y]bY'XYf'[fÒ» hYb'6ÒfgYb']b'XYb'IG5"'6Yjcf'X]Y6ÒfgY']b'X]Y'=bgc`jYbn'gW\`]hhYfhYž'[UV'g]Y']\fY'D`ÀbY'VY\_UbbhžXUg'@UbX'ni 'jYf`UggYbž'ibX'aUW\hY'XUZØf'XUg'ZY]bXgY`][YfY[i`Uhcf]gW\Y'IaZY'X'jYfUbhkcfh`]W\"

8 Ugʻl bhYfbY\a Ybʻj YfZØ[hʻØVYfʻJ Yfa Ò[Ybgk YfhYʻi bX J YfV]bX`]W\\_Y]hYbžʻX]YʻYk Y]`gʻY]bYbʻ[YgW\AhnhYbʻK Yfh'nk ]gW\Yb) \$\$`A]``]cbYbʻi bXʻY]bYfʻA]``]UfXYʻl G!8c``Ufʻ\UVYb"`8]Ygʻ[Y\h'Ui g Y]bYfʻZfØ\YfYbʻ; Yf]W\hgU\_hYʻ\Yfj cfžʻ]bʻXYfʻUi W\`X]Yʻ9l ]ghYbnʻj cb ØVYfʻ%\$\$"\$\$\$; `Ai V][YfbʻXUf[Y`Y[h'k i fXY"

. . .

8 Y hU1`a