

# 6f]h]gWX Yg'DZi bX'[ Yk ]bbh'Ub'GhÀf\_Y. GhUV]`]hÀh'bUWX'K U\`g]Y[ 'XYf'@UVci f DUfhm

5bU`mghYb'dfc[bcgh]n]YfYb'?ifg[Yk]bbY'XYg'Vf]h]gWXYb DZibXgž'hfchn'a Ò[`]WXYf'N]bggYb\_ib['XYf'6C9'bUWX'XYa @UVcif!G]Y["

# GhUV]`]hÀh'XYg'Vf]h]gW\Yb'DZi bXg.'9]b'6`]W\_Ui Z'X]Y'U\_hi Y``Y'dc`]h]gW\Y'@UbXgW\UZh

8 UgʻVf]h]gWXYʻDZi bXʻnY][ hʻ]bʻXYbʻ`YhnhYbʻHU[ YbʻVYa Yf\_Ybgk YfhYGhÀf\_Yʻ]a ʻJYf[ `Y]WXʻni ʻUbXYfYbʻ; !%\$!K À\fi b[ Yb"'8]YgY
9bhk ]W\_`i b[ `k ]fXʻj cbʻ5bU`mghYbʻU`gʻYbhgWXY]XYbXYfʻ: U\_hcfʻZØf
X]YʻGhUV]`]hÀhʻXYfʻVf]h]gWXYbʻK ]fhgWXUZhʻUb[ YgY\Ybžʻ]bgVYgcbXYfY
]a ʻ?cbhYl hʻXYfʻØb[ ghYbʻK U\`YbžʻVY]ʻXYbYbʻX]Yʻ@UVci fʻDUfhm
Y]bYbʻG]Y[ ʻYffUb[ "

### Dc`]h]gWXY'9]bZ`ØggY'UiZ'X]Y'K]fhgWXUZh

8 ]Y 'dc`]h]gWX Y 'G]hi Uh]cb']a 'J YfY]b][ hYb'? Òb][ fY]WX '\Uh'Y]bY X]fY\_hY '5i gk ]f\_i b[ 'Ui Z'X]Y 'k ]fhgWX UZh`]WX Y 'GhUV]`]hÀh" 'I 6G`\YVh\Yfj cfž'XUgg'XUg'@UbX'a Ò[`]WX Yfk Y]gY 'ni f'ghUV]`ghYb'dc`]h]gWX Yb; YgWX]WX hY 'XYf'; !%\$!@ÀbXYf'[ Yk cfXYb']gh" '8 ]YgY '9]bgWX Àhni b[ VUg]Yfh'Ui Z'XYf'5bbU\a Yž'XUgg'X]Y 'bYi Y 'FY[ ]Yfi b[ 'i bhYf'XYf @UVci f'DUfhm']b'XYf'@U[ Y ']ghž'XUg'J YfhfUi Yb'XYf'A Àf\_hY 'ni ghÀf\_Yb"

#### A Uf\_hUbU`mgY i bX ni \_ØbZh][Y 5i gg]W hYb

 $5\,b\,U\,^{h} ghY\,b\,^{g}]b\,X\,^{g}]WX\,^{Y}]b\,][\,\,\check{z}\,^{x}X\,Ugg\,^{h}fc\,hn\,^{x}X\,Y\,f\,^{a}\,\,\grave{O}[\,\,\check{}\,\,]WX\,Y\,b$ 

 $\label{eq:normalize} $$N]bggYb_i b[Yb'XYf'6Ub_cZ'9b[`UbX'fbC9Ł'XUg'DZ'bX'kY]hYf\]b ? ifg[Yk]bbY'Yfn]Y'Yb'_ObbhY'''8]Y'GhUV]`]hAh'XYf'dc`]h]gW\Yb JYf\A`hb]ggY'i bX'X]Y'k]fhgW\UZh`]W\Yb'FYZcfaYb'g]bX $$YbhgW\Y]XYbXY': U_hcfYbž'X]Y'ni_ØbZh][Y'\bjYgh]h]cbYb'Ubn]Y\Yb i bX'X]Y'K A\fi b['ghAf_Yb'_ObbhYb'''$ 

## 9]bZi ggʻUi ZʻX]Y; Ya Y]bgW\UZh

8]Y'GhÀf\_i b['XYg'DZi bXg'\Uh'Ui W\'5i gk]f\_i b[Yb'Ui Z'X]Y'`c\_U`Y; Ya Y]bgW\UZh"'9]bY'ghUV]`Y'K À\fi b['\_Ubb'XUni 'VY]hfU[Ybž'X]Y

DZUh]cb'ni '\_cbhfc``]YfYb'i bX'X]Y'@YVYbg\U`hi b[g\_cghYb'ni ghUV]`]g]YfYb"'@Yhnh`]W\'\_ObbhY'X]Yg'ni 'Y]bYa 'dcg]h]j Yb
k]fhgW\UZh`]W\Yb'?`]a U'ZØ\fYbž'XUg'gck c\``I bhYfbY\a Yb'U`g'Ui W\
JYfVfUi W\Yfb'ni [i hY\_ca a h"

#### : Un]h

8]Y 'Øb[ghYb'9bhk]W\_`i b[Yb']a 'JYfY]b][hYb'? Òb][fY]W\'nY][Ybž XUgg'XUg'Vf]h]gW\Y'DZi bX'Ui Z'Y]bYa 'dcg]h]j Yb'?i fg']ghž'XYf'Xi fW\ dc`]h]gW\Y'GhUV]`]hÀh'i bX'k]fhgW\UZh`]W\Y'DYfgdY\_h]j Yb'i bhYfghØhnh k]fX"'9g'V`Y]Vh'UVni kUfhYbž'k]Y'g]W\'X]Y'N]bgdc`]h]\_'XYf'6C9 Ybhk]W\_Y`b'k]fXž'XcW\'X]Y'[YbYfY``Y'Gh]a a i b[']gh'cdh]a]gh]gW\" \#bj YghcfYb'XØfZYb'[YgdUbbh'Ui Z'X]Y'\_ca a YbXYb'K cW\Yb'i bX A cbUhY'V`]W\_Yb"

B 5;

8 Y hU]`a

6 Ygi WX Yb 'G]Y 'i bg 'Ui Z 'b!U[ "XY