

6i bXYgdc`]nY]'ZUggh'[Ygi W\hY'A ÀbbYf'Ub XYf'=bbhU`Ui hcVU\b°

6i bXYgdc`]nY]'A ØbWXYb'\Uh'nk Y]'[Ygi WkhY'A ÀbbYf'VY]; fYbn_cbhfc``Yb'ZYgh[Ybca a Yb.'9]b'Fi a ÀbY'XUfZ'nU\`YbibX'k Y]hYffY]gYbžY]b'G`ck U_Y'a i gg']bg'; YZÀb[b]g"



?]Y ZY fgZY`X Y b ž'² ghY ffY]W '!'6Y]'; fY bn_cbhfc``Y b 'Ub 'X Y f

\$\Delta b \Delta U \D' \Uh \X \]Y '6i b XY gdc`]nY]'F cgY b \Y]a 'nk Y]'[Ygi W hY

A \AbbYf'Ui Z[Y[f]ZZY b"'5a '8]Y bghU[ž'X Ya '%' "'A U]ž'k i fX Y Y]b

' %! 'A\f][Yf'G`ck U_Y'ZYgh[Ybca a Ybž'XYf'gY]bY'\Rightarrow gh]ngW i `X Y b

j cb 'fi b X'' "' \$\$'9i fc 'b]W h'VY[`Y]W Y b _cbbhY "'9f'a i gg'bi b 'ZØf

X]Y 'b AW ghY b 'Y]bY]b\U`V'A cbUhY']b 'XYf'\Rightarrow gh]nj c``ni [gUbghU`h

6YfbUi 'V`Y]VYb"

8]Y ?cbhfc``Y ZUbX']b XYfBÀ\Y'j cb'?]YZYfgZY`XYb ghUhhžk c'X]Y 6YUa hYb'Y]bYb' < UZhVYZY\``[Y[Yb'XYb'G`ck U_Yb'YbhXYW_hYbž'XYf k Y[Yb'J YfghÒ» Yb'[Y[Yb'XUg'K UZZYb[YgYhn'Yf`UggYb'k cfXYb'k Uf" 8Yf'6Y]ZU\fYf']b'Y]bYa : U\fnYi [ž'XUg']b'XYf'G`ck U_Y]'ni [Y`UggYb]ghž'\UhhY'_Y]b'; Y`Xž'i a 'gY]bYf'GhfUZY'bUW\ni _ca a Yb''=a

; Y[YbgUhn'XUni 'Xi fZhY'Y]b'fi a Àb]gW\Yf'A]hfY]gYbXYf'gY]bY GhfUZY'j cb'%"&\$\$'9i fc'VY[`Y]W\Yb'i bX'gY]bY'FY]gY'c\bY I bhYfVfYW\i b['ZcfhgYhnYb"

8 YhU]`g	
J c f ZU``	K UZZYbj Yf[Y\Yb
I fgUWX Y	JYfghc» [Y[Yb'XUg'K UZZYb[YgYhn
Cfh	?]YZYfgZY`XYbž ^{·2} ghYffY]W\
: YghbU\a Yb	%
GWX UXYb ']b '	' ' \$\$

6Ygi WXYb G]Y i bg Ui Z b!U["XY