

# A YhUK UfgʻghUfhYhʻghUf\_ʻi bXʻV`]W\_hʻ^Yhnh ]bʻX]YʻNi \_i bZhʻ 'DfYggYa ]hhY]`i b[

DfYggYa ]hhY]`i b[ DF 9GG9A \timesHH9 \infty B; "'A YhUK Ufgž'Y]b  $K Y hfUi a !H Ya Yb!D hc!9Ufb!6 cW_W U]b!Gd]Y ž XUg < ][ \!$ HYWX!B: Hg'j Yfk YbXYhž'ZfYi h'g]WX 'bUWX 'Y]bYa 'YfZc`[fY]WXYb Hc\_Yb!GhUfh'Ui Z'Y]bY'gY\f'[ `ÀbnYbXY'Ni \_i bZh"'8Ug'Gd]Y`ž']b  $XYa \ X]Y \ Gd[Y \ Yf \ X]Y \ Fc \ Y \ jcb \ D] \ ch Yb \ ]b \ Y]b Ya$ Zi hi f]gh]gWXYbž'dcghUdc\_U`mdh]gWXYb'K Y`hfUi a \_f]Y['XYg')\$  $ibX'YfcVYfY'D`UbYhYb"'BUWX'j]Y``\UfhYf'5fVY]h'\]bhYf'XYb$ ?i`]ggYbžia 'X]Y'VYghYb'Hc Ybca ]Wq'ZØf']\fY'XmbUa ]gWXY Gd]Y`UfWX]hY\_hi fini Ybhk]W\_Y`bž'qck]Y'ZUWX\_i bX][Yf ghfUhY[]gWXYf'I a gYhni b['Xi fWX'A Uf\_Yh]b[dUfhbYfž'VYZ]bXYb g]W\ 'gck c\``` K 5FG!'U`g'Ui W\ '`; 5A!Hc\_Yb''Yhnh']b'XYb < AbXYb XYf ZfØ\YghYb 6Ybi hnYfVUq]q XYq Dfc Y\_hq" 9]b</pre> i ]Y`i YfgdfYW\YbXYf`GhUfh`8Ug`A YhUK Ufg!HYUa `VYXUb\_hY q]WX buWX Y]bYa fY]Vi b[q`cqYb i bX Ui ZfY[YbXYb GhUfh Ui Z XYa 'K Y[ 'ni a 'VYghYb']bhYf[ U`U\_h]gWXYb'; Ua Y: ]!DfcXi \_h Ui Z'XYa / Ua d∧Y``]d/

DF 9GG9A #IH9 # B; "'A YhUK Ufgž'Y]b'K Y`hfUi a !H\Ya Yb!D`Um!hc!
9Ufb!6`cW\_W\U]b!Gd]Y`ž'XUg'<][\!HYW\!B: Hg'j Yfk YbXYhž'ZfYi h'g]W\\bUW\'Y]bYa 'YfZc`[fY]W\Yb'Hc\_Yb!GhUfh'Ui Z'Y]bY'gY\f'[`ÀbnYbXY\\Ni\_i bZh"

8 UgʻGd]Y`žʻ]bʻXYa ʻX]YʻGd]Y`YfʻX]YʻFc``Yʻj cbʻD]`chYbʻ]bʻY]bYa Zi hi f]gh]gW\Ybž'dcghUdc\_U`mdh]gW\YbʻK Y`hfUi a \_f]Y[ 'XYg') \$`i bX YfcVYfY`D`UbYhYb"

 $B \ UWX \ "j" \ Y \ "VYghYb \ Y \ "j" \$ 

### 9]b j ]Y`j YfgdfYWXYbXYf GhUfh

8 UgʻA YhUK Ufg!HYUa ʻVYXUb\_hYʻg]WkʻbUWkʻY]bYa ʻfY]Vi b[gʻcgYb i bXʻUi ZfY[YbXYbʻGhUfhʻUi ZʻXYa ʻK Y['ni a ʻVYghYb]bhYf[U`U\_h]gWkYbʻ; Ua Y:]!DfcXi \_hʻUi ZʻXYa ʻA Uf\_hʻVY]ʻgY]bYfʻØVYf, &"\$\$\$`7 ca a i b]hmʻi bXʻY]bYa ʻghUf\_Ybʻ5i Z[YVchʻUbʻDUfhbYfb"

6YY]bXfi W\_YbXYfk Y]gY`\Uh'XUgʻHYUa `V]g\YfʻU``YʻgY]bY`: f]ghYb Y]b[Y\U`hYbž'k cVY]'X]Y`B: H!5i \_h]cb'j cf'XYf'J YfÒZZYbh`]W\i b[ 'Ui Z XYf`cZZ]n]Y``Yb'K YVg]hY`fY]Vi b[g`cg'UV`Ài Zhi bX'Y]bY'Y]bZUW\Y A Ò[`]W\\_Y]h'V]YhYhž'k Yfhj c``Y`±b!; Ua Y!5ggYhg'i bX'!J cffÀhY'j cf XYf'J YfÒZZYbh`]W\i b[ 'XYg'Gd]Y`g'ni '\_Ui ZYb"

8]Y 'YfghYb'l bhYfghØhnYf'ZfYi hYb'g]W\ž'XUgg'Y]b'WYj YfYf'GhU\_]b[!Dcc`i bX'8Udd'bi f'XfY]'HU[Y'bUW\'XYa 'GhUfh``]j Y'[Y\Ybž'k UgVXYi hYhž'XUgg'gck c\``=bj YghcfYb'U`g'Ui W\'ni \_ØbZh][Y'Gd]Y`YfVYfY]hg' K 5FG!Hc\_Yb'Y]bgYhnYb'\_ÒbbYbž'i a '`; 5A ž'X]Y

Gd]Y`k À\fi b[ ž'ni 'j YfX]YbYbž'cXYf'K 5FG!6I G8 '@D'ZØf'ZØbZa U`a Y\f'`; 5A!6Y`c\bi b[ Yb"

## 9]b][ $Y^XYf^{\prime}$ <][ $\$ ^][ $\$ hg^VY]a ^GhUfh^j cb^\* K 5FG.

- 8]Y'DfY!@Ui bW\!B: H!5i \_h]cb'nc['ZUgh'%"\$\$\$'; YVchY'Ub i bX'VfUW\hY'&"\$\$\$'"'Y]b'6B6
- \*K 5FG!DfYgU`Y!Hc\_Yb`k UfYb`]b'bi f'k Yb][ Yb`A ]bi hYb`Ui Z U``Yb`XfY]'@Ui bW\dUXg'Ui gj Yf\_Ui Zh` 'Dc`m`Ui bW\Yfž'FYX ? ]hYž'; Ua Y: ]
- 8]Y'Bch]Yfi b['VY]'DUbWU\_YGk Ud'nY][hY'[fc» Yg'DchYbn]U`ž U`g'XYf'DfY]g']b'X]Y'<Ò\Y'gWkcgg'i bX'g]Wk'bUWk'Y]b][Yf NY]h'nk]gWkYb'\$ž)\$'i bX'\$ž+\$'I G8'U``a À\`]Wk'Y]bdYbXY`hY
- 8 Yf YfghY 'A YhUK Ufg!Gd]Y `hfU]`Yf'i bX 'X]Y '8 Ya c'k i fXYb i YfÒZZYbh`]W\h' 'gW\Ui 'Yg'X]f'\]Yf'Ub"
- 8 Ug'GhU\_]b['j cb' K 5FG'i bX' K 5FG! 61 G8 @D']gh']j Y
   Ui Z'XYf'8 Uddž'Ui Z'X]Y'ni [Y[f]ZZYb'k YfXYb'\_Ubb
   i bhYf'\ hhd g. ##Ud d"a YhUk Ufg"[[
- 8 Yf'8 ]gWcfX!GYfj Yf'XYg'Dfc Y\_hg']gh'U\_h]j 'i bX'Yg'[]Vh Y]b'9]b`UXi b[gk YhhVYk YfV']a '; Ub[Yž'VY]'XYa 'X]Y 7 ca a i b]hm'VY[fYbnhY'B: Hg'a ]h'Gd]Y`]b\U'hYb'j YfX]YbYb\_Ubb

# 9g'\_ca a Yb'bcW\'j]Y`'[fÒ»YfY'5VYbhYiYf

A YhUK UfgʻZÀb[hʻ[YfUXYʻYfghʻUbʻi bXʻYgʻ[]Vhʻgcʻj]Y``Ui ZʻXYf DfcʻY\_h!FcUXa Udʻ[Y[Ybʻ9bXYʻXYgʻ\*J\fYgʻi bXʻ]a 'YfghYbʻEi UfhU` &\$&&"

8 UgʻHYUa 'ZØ\fhik Y]hYfY'J cfVYfY]hi b[gUfVY]hYbʻUbʻXYfʻB: H!: fcbh Xi fW\žik UgʻVYXYi hYhžʻXUggʻXUgʻ5VghYW\_Ybʻj cbʻB: HgʻVU`X Yfa Ò[`]W\hik YfXYbʻ\_ÒbbhY"'6Ybi hnYfʻ\_ÒbbYbʻB: Hgʻd`i gʻ` K 5FG! cXYfʻ`; 5A!Hc\_YbʻY]bgYhnYbžʻi a 'bcW\f\[fÒ» YfY'6Y`c\bi b[YbʻZØf X]Yʻ\_ca a YbXYbʻA YhUj YfqY!?f]Y[Y'ni 'Yf\U`hYb"

9]b'k Y]hYfYf'5gdY\_h'XYg'Gd]Y`gž'XUg'[ Y\ÀbgY`h'k ]fXž'g]bX D`UbYhYbž'X]Y']a 'Gd]Y`'U`g'HYff]hcf]i a 'Yfk cfVYb'i bX'j YfhY]X][ h k YfXYb'a ØggYb"'Gd]Y`Yf'gc``Yb'g]Y'VU`X'Yfk YfVYb'\_ÒbbYbž Ybhk YXYf ØVYf Y]bY 'UbXYfY '5i \_h]cb 'cXYf 'Ui Z'UbXYfY 'K Y]gY "8]Y Yb][Ybž X]Y 'Yg 'k]ggYb 'k c``Ybž 'a ØggYb 'X]YgVYnØ[`]WXY 5b\_ØbX][i b[Yb 'UVk UfhYb"

Ni '[i hYf'@Yhnh'ghY\h'Y]b'5VYbhYi Yfgd]Y`'\_i fn'j cf'XYf

J YfÒZZYbh`]WXi b["'\dagger X]YgYa 'Gd]Y`'\_ObbYb'X]Y'Gd]Y`Yf']\fY'Hc\_Yb
i bX'B: Hg'j Yfk YbXYb'i bX'Y]bYb'J cf[ YgWXa UW\_'XUfUi Z'[ YVYbž
k Ug']b'6Yni ['Ui Z'X]Y': i b\_h]cbU`]hÀh'XYg'² \_cgmghYa g'\_ca a Yb
k ]fXž'k Ybb'XUg'j c``ghÀbX][ Y'A YhUK Ufg!Gd]Y`']a 'bÀWXghYb'\dy\f
j YfÒZZYbh`]WXh'k ]fX"'

8 YhU]`gʻni a '5 VYbhYi Yfgd]Y`k YfXYbʻni gUa a Ybʻa ]hʻY]bYfʻFY]\Y
k Y]hYfYfʻ9j YbhgʻVY\_Ubbhʻ[ Y[ YVYb"'8]Ygʻk ]fXʻg]W\Yf`]W\'a Y\f
5i ZfY[i b[ ']bʻX]Yʻ7ca a i b]hmʻVf]b[ Ybʻi bXʻX]Yʻ5i Za Yf\_gUa \_Y]h
bYi Yfʻ=bj YghcfYbʻUi Zʻg]W\'n]Y\Yb"'6`Y]VYbʻG]YʻUi ZʻXYa 'A YhUK Ufg!
FUXUfʻi bXʻZc`[ YbʻG]Yʻ]\fYbʻcZZ]n]Y``Ybʻ?UbÀ`Ybži a 'ØVYfʻX]Y
9bhk ]W\_`i b[ YbʻUi ZʻXYa '@Ui ZYbXYbʻni 'V`Y]VYb"

### , VYf A YhUK Ufg

A YhUK Ufgʻ]ghʻY]bʻ6`cW\_WkU]b!Gd]Y`Yf`YVb]gʻXYfʻbÀWkghYb; YbYfUh]cbži a ʻni ʻj YfX]YbYb"ʻ9fZcfgWkYʻi bXʻ\_Àa dZYʻ]a ʻ[ UbnYb I b]j Yfgi a "ʻ?Àa dZYž'hUi gWkYʻi bXʻj YfX]YbYʻFcVchYfžʻGWk]ZZYʻi bX d`UbYhUfYgʻHYffU]bžʻXUgʻj cbʻB: Hgʻ]a ʻGd]Y`i bhYfghØhnhik]fX"ʻ8Yfʻ K 5FG!Hc\_Ybʻk]fX'ni a ʻ5b\_YfʻY]bYgʻ[ UbnYbʻI b]j Yfgi a gžʻXUgʻYg ni ʻ[ Yk ]bbYbʻ[ ]Vh"

K YVgY]hY`p`Hk ]hhYf`p`HY`Y[fUa a `p`FYXX]h`p`Nk ]YhfUW\h

8]Ygʻ]gh'Y]bYʻDfYggYa ]hhY]i b["@YgYfʻgc`hYbʻ]\fY`Y][YbYʻGcf[ZUʻhgdZ]W\h'YfZO`YbžVYj cf`g]Y
]f[YbXk Y`W\Y`A U» bU\a Ybʻ]a `Ni gUa a Yb\Ub[`a ]h'XYa `VYk cfVYbYbʻI bhYfbY\a YbʻcXYf`Y]bYa
gY]bYfʻj YfVi bXYbYbʻI bhYfbY\a YbʻcXYf`8]Ybgh'Y]ghi b[Yb`Yf[fY]ZYb"`6]hWc]b"Wca `]ghik YXYf`X]fY\_h
bcW\ ]bX]fY\_hj YfUbhk cfh`]W\ ZØf`GW\AXYb`cXYf`J Yf`i ghYžX]Y`Xi fW\ cXYf`Ja `Ni gUa a Yb\Ub[`a ]h
XYf`Bi hni b[`cXYf`XYa `J YfhfUi Yb`Ui Z-b\UʻhYžK UfYb`cXYf`8]Ybgh'Y]ghi b[YbžX]Y`]b`XYf
DfYggYa ]hhY]i b[`Yfk À\bh'k YfXYbžj Yfi fgUW\h'cXYf`Ub[YV`]W\ j Yfi fgUW\h'k YfXYb"

6] XbUW k Y]gY. G\i hhYfghcW\_ZD]I UVUmZK ]\_] 7ca a cbg

fZ bWh]cbfXžgž]XŁoj Uf~gžZgʻ1 X"[Yh9`Ya Ybhg6mHU[BUa YfgŁQ\$Q']ZfK"[Yh9`Ya Ybh6m=Xf]XŁŁfYhi fb/~gʻ1 X"WfYUhY9`Ya YbhfgŁ/~g"]X1 ]X/~g"gfWl~\hhdg.##WcbbYWh"ZUWYVcc\_"bYh#YbSl G#gX\_"~g, I ZVa `1 %/j Yfg]cb1j' "&~/Zg"dUfYbhBcXY"]bgYfh6YZcfYflgžZgŁ/qfXcW/a YbhžfgWf]dhfz~fZUWYVcc\_!~ggX\_fŁŁ/

#### 8 Y hU]`c

6Ygi WXYb G]Y i bg Ui Z. \_fmdhc!bYk g"Uh