

A Y[U!:]bU`Y`XYf`: fYbW\`CdYb`&\$&) . G]bbYf`[Y[Yb`5`WUfUn`]b`DUf]g $^{\circ}$

9f`YVYb`G]Y`X]Y`: fYbW\`CdYb`&\$&)`]b`DUf]g.`Gd]Y`d`Ubž'HJ! , VYfhfU[i b[ž'XYi hgW\Y`Gd]Y`Yf'i bX`DfY]g[Y`X`]a`, VYfV`]W_"



GhUXY'Fc`UbX!; Uffcgž'+) \$%* 'DUf]gž: fUb_fY]WX'!'5a', "'*b] &\$&) 'YffY]WX'Yb'X]Y': fYbWX'CdYb']b'DUf]g']\fYb'<Ò\Ydib_hž'U`g XUg'<YffYb!:]bU`Y'nk]gWXYb'\Jbb]_'G]bbYf'i bX'7Uf`cg'5`WUfUn'i a%) .\$\$'I\f'UiZ'XYa''Y[YbXÀfYb'7cifh'D\]`]ddY!7\Uhf]Yf ghUhhZ]bXYh"'8Ug'Hifb]Yfž'XUg']b'X]YgYa'\J\finia''%\("'AU'\Uig[YhfU[Yb'k]fXž'VY[Ubb'Ua'\&)"'AU]'\&\$\&\)'a]h'XYf'YfghYb FibXY'jcb'8UaYb'ibX'<YffYbž'bUWX'Y]bYf'EiU`]Z]_Uh]cbgd\UgY j ca'\%-"'V]g'\&' "'AU]'\&\$\&\)'"8]Y': fYbWX'CdYbž'UiWX'ibhYf'XYa BUaYb'Fc`UbX'; Uffcg'VY_Ubbhž'g]bX'Y]bYg'XYf'j]Yf VYXYihYbXghYb'; fUbX!G`Ua!Hifb]YfY']a'HYbb]g'ibX'n]Y\Yb']b YXYa'\J\f'X]Y'VYghYb'Gd]Y`Yf'XYf'KY`h'Ub"'

±bg[YgUa h'bY\a Yb'%&, 'DfcZ]g'Ub'XYf'?cb_i ffYbn']b'XYb

9]bnY`k YhhVYk YfVYbʻhY]`žʻgck c\``VY]`XYbʻ8 Ua YbʻU`gʻUi W\`VY]`XYb < YffYb"'8]YʻYfghYbʻj]YfʻFi bXYbʻZUbXYbʻj ca * &) "'A U]ʻV]gʻ&"' \Rightarrow b] &\$&) 'ghUhhžʻ[YZc`[hʻj cbʻXYbʻJ]YfhY`Z]bU`gʻUa * ' "i bXʻ("' \Rightarrow b]žʻXYb < U`VZ]bU`gʻUa *) "i bX'*"' \Rightarrow b]ʻgck]YʻXYa * A]I YX!:]bU`YžʻXUg YVYbZU``gʻUa *) "' \Rightarrow b]ʻghUhhZUbX"'5V[Yfi bXYhʻk]fXʻXUgʻHi fb]Yf Xi fW\`X]Y`:]bU`gd]Y`Yʻ]a * 8 Ua Yb!'i bX'<YffYb!8 cddYʻžʻX]YʻUa * , " * b]`&\$&) ž'[`Y]W\nY]h]['a]hʻXYa * <YffYb!:]bU`YžʻghUhhZ]bXYb k YfXYb"

VYfhfU[ib['ibX'DfY]g[Y`X

8]Y, VYfhfu[ib[Yb:XYg:9jYbhg:g]bX:VfY]h:[YZÀWXYfhž:a]h
9i fcgdcfh%ž:XUg:X]Y;k]WXh][ghYb:Gd]Y;Y]a::fYY!HJ:ØVYfhfÀ[hžkÀ\fYbX:9i fcgdcfh%:_cghYbdZ]WXh][Y:DUfh]Yb:nY][h":@]jYghfYUagg]bX:ØVYf:D;UhhZcfaYb;k]Y:X]gWcjYfmŽ:ibX:85NB;jYfZØ[VUfž:X]YgÀah;]WXY:Gd]Y;Y;]b;jc;;Yf:@Ab[Y:UbV]YhYb":8Ug;;YgUahdfY]g[Y;XZØf:X]Y::fYbWX:CdYb:&\$&):VY;ÀiZh:g]WX:UiZaY\f:U`g')*ž)
A];`]cbYb:9i fcž:kcVY];X]Y:G]Y[Yf:ibX:G]Y[Yf]bbYb;jcb

K YNNVYK YTV	DfY]g[Y X
GJY[Yf'8Ua Yb'i bX' <yffyb< th=""><th>&ž)) 'A l``lc.b</th></yffyb<>	&ž)) 'A l``lc.b

G]Y[Yf'8Ua Yb'i bX' <yffyb< th=""><th>&ž)) A]``]cbYb'9i fc</th></yffyb<>	&ž)) A]``]cbYb'9i fc
:]bU`]ghYb	%ž&+) 'A]``]cbYb'9i fc
< U`VZ]bU`]ghYb	* - \$"\$\$\$ [.] 9i fc
J]YfhY`Z]bU`]ghYb	((\$"\$\$\$ [.] 9i fc
5 WX hY`Z]bU`]ghY b	&*) "\$\$\$ [.] 9i fc
G]Y[Yf']a '8cddY`) - \$"\$\$\$ ¹ 9i fc
G]Y[Yf'A] YX!8cddY`	%&&"\$\$\$ ¹ 9i fc

6YgcbXYf\Y]hYb XYf: fYbW CdYb

8 Yf'5i ghfU[i b[gcfh'XYf': fYbW\'CdYbž'XUg'GhUXY'Fc'UbX!; Uffcgž]gh'VYfØ\a h'ZØf'gY]bY'fchYb'GUbXd'ÀhnYž'X]Y''Àb[YfY'6U'`k YW\gY'i bX'Y]bY'Yf\Ò\hY'_ÒfdYf']W\Y'6Y`Ughi b['ZØf'X]Y'Gd]Y`Yf'ZÒfXYfb" a '; Y[YbgUhn'ni 'UbXYfYb'; fUbX!G`Ua!Hi fb]YfYb'Z]bXYh'VY]'XYb: fYbW\'CdYb'Y]b'?''!c"!GmghYa 'gckc\`'ZØf'A ÀbbYf'U`g'Ui W\'ZØf: fUi Yb'ghUhhž'k cVY]'%&, 'HY]`bY\a Yf']b'9]bnY`k YhhVYk YfVYbUbhfYhYb"'8]Yg'i bX'X]Y'gd]Y`hYW\b]gW\Yb'I bhYfgW\]YXY'nk]gW\Yb

XYb; YgWX`YWXhYfb``'<YffYb`gd]Y`Yb'ØVYf`XfY]'; Yk]bbgÀhnYž 8Ua Yb'ØVYf`nkY]' 'a UWXYb'XUg'Hi fb]Yf'VYgcbXYfg'ZUgn]b]YfYbX"

8]Y: fYbW. CdYb g]bX b]W. h'bi f'Y]b 'VYXYi hYbXYg 'GdcfhYfY][b]gž gcbXYfb 'Ui W. Y]b 'k]W. h][Yf'HY]' 'XYf'HYbb]g[YgW.]W. hY "'G]Y
[Y\ÒfYb 'ni 'XYb'; fUbX'G`Ua gž'k Y`W.Y'X]Y'\ÒW. ghYb '9fZc`[Y']a
HYbb]g 'XUfghY``Yb "'8Yf'; fUbX'G`Ua 'k]fX'YffY]W. hž'k Ybb 'Y]b
Gd]Y`Yf'U``Y'j]Yf'VYXYi hYbXYb'Hi fb]YfY' '5i ghfU`]Ub'CdYbž': fYbW.
CdYbž'K]a V`YXcb'i bX'I G'CdYb' ']bbYf\U`V'Y]bYg'? U`YbXYf'U\fYg
[Yk]bbh''K]_]dYX]U'Yf`Ài hYfhž'XUgg'X]YgYf'6Y[f]ZZ'Yfgha U`g'%-''
j cb'&i fbU`]gh'&\b'?]YfUb'[YdfÀ[h'k i fXY'i bX'X]Y'Dcdi `Uf]hÀh'XYf
; fUbX!G`Ua!Hi fb]YfY']b'XYf'\Yi h][Yb'NY]h'ZUgh'nk Y]'A]``]UfXYb
Ni gW. Ui Yf']b'ØVYf'&\$\$'@ÀbXYfb'YffY]W. h'\Uh''

8]Y:: fYbW. 'CdYb'&\$&) 'V]YhYb'b]W.h'bi figdUbbYbXY'Xi Y``Y'Ui ZXYa 'HYbb]gd`UhnžigcbXYfb'Ui W. 'Y]bY'D`UhhZcfa 'ZØf'Gd]Y`Yf'k]Y 5`YI UbXYf'Nj YfYj ž'8Ub]Y`'5`ha Y]Yfž'*Jb!@YbbUfX'Ghfi ZZ'VY]'XYb < YffYb'i bX'9j U'@mgž'HUh'UbU'A Uf]Už'@Ui fU'G]Y[Ya i bX'VY]'XYb 8Ua Yb"'9g'V`Y]Vh'gdUbbYbX'ni 'VYcVUW.hYbž'k Y`W.Y'5h\`YhYb'g]W.]b'Ni _i bZh']b'X]Y'F]Y[Y'XYf'[fÒ» hYb'HYbb]g`Y[YbXYb'Y]bfY]\Yb k YfXYb"

8 YhU]`g	YhU]`g	
J c f ZU``	Gdcfh	
Cfh	GhUXY'Fc`UbX!; Uffcgž'+) \$%* 'DUf]gž : fUb_fY]WX	
Ei Y``Yb	 k k k "_b!cb`]bY"XY k k k "_]W_Yf"Uh XY"a "k]_]dYX]U"cf[

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