## H\caUgʻ5bXYfgʻ7UbWY`gž:UbgʻGdYWY`UhY cbʻGW\`U[YfVcca`8fUaU°



? ]hnVØ\Y`ž'5i ghf]U'!'@Ugh'k YY\_YbXž'h\Y']Wbb]W GW\`U[YfVcca CdYb'5]f']b'?]hnVØ\Y`'hcc\_'WYbhYf'ghU[Yž'XfUk]b['ZUbg'YU[Yf'Zcf bcghU`[]WdYfZcfa UbWYg"'H\]g'Yj Ybh'ZYUhi fYX'U'\][\``][\h'Xi Yh'Vm :`cf]Ub'G]`VYfY]gYb'UbX'8]YhYf'6c\`Ybž'gh]ff]b['YI W]hYa Ybh" <ck Yj Yfž'h\Y'UVgYbWY'cZ'H\ca Ug'5bXYfgž'U'Zcfa Yf'a Ya VYf'cZ h\Y'fYbck bYX'Xi c'A cXYfb'HU`\_]b[ž`YZh'a Ubm'ZUbg'ZYY`]b['`Yh Xck b"'5bXYfg 'hYUa 'fYdcfhYX'\Y'k Ug'UhhYbX]b['U'df]j UhY'Yj Ybh UbX'Wci `X'bch'a U\_Y']h'hc'h\]g'Ubh]W]dUhYX'fYi b]cbž'U X]gUddc]bha Ybh'YW\cYX'Ua cb['h\cgY'\cd]b['Zcf'U'fYj]j U`'cZ'h\Y ]Wcb]WdU]f g'a U[]Wź'YgdYW]U``m'UZhYf'U'Zci f!mYUf'dYfZcfa UbWY'[Ud g]bWY'h\Y]f``Ugh'Wc``UVcfUh]cb'Uh' GW\`U[YfVcca ']b'8cfha i bXž'Ug A N'YI d`U]bg" hc =bghU[fUa hc g\UfY U j]XYc k \YfY \Y gUb[ Mci fY A m < YUfhž Mci fY'A m'Gci`']b'=hU`]Ubž'U`cb[g]XY'; ]cj Ubb]'NUffY``U"'H\Y'j ]XYc gdUf\_YX`gdYW``Uh]cb. k Ug`h\]g`U`X]fYWh`fYgdcbgY`hc`h\Y`Vinn gi ffci bX]b[ '6c\`Yb g'dYfZcfa UbWY3'5bXYfg'gYYa YX'ei ]hY idVYUhž'YIdfYgg]b[`\]q`^cm`Uh`dYfZcfa ]b[`k ]h\`NUffY``Už'k \c \ia cfcig`m`fYZYffYX`hc`\]a `Ug`h\Y` VYhhYf`\U`Z`cZ`A cXYfb HU`\_]b[ž 'U'WYUf'/UV'Uh'6c\`Yb"'H\]g'd`UmZi ``YI W\Ub[Y'\Ug'ZUbg Vinn]b[`UVcihibXYf`m]b[`hYbg]cbgžgi[[Ygh]b[`Uf]ZhVYhkYYb`h\Y Zcfa Yf'dUfhbYfg']b'Wf]a Yž'\][\`][\hYX']b'U'fYdcfh'Zfca 'GcYghYf 5bnY][Yf"

=b`U`hk ]gh`cZ`ZUhYž`g\cfh`m`UZhYf`h\Y`? ]hnVØ\Y``Yj Ybhž`5bXYfg`hcc\_

## I bWYUf A ch]j Yg 6Y\]bX 7UbWY``Uh]cb

5g'YjYfmcbY'dfcWYggYX'5bXYfg'k]h\XfUkU`'Zfca''h\Y'YjYbhž ei Ygh]cbg``]b[ YfYX"'H\Y'fYUgcbg'Zcf'\]g``Ugh!a ]bi hY'WUbWY``Uh]cb fYa U]b a i f\_mž`YUX]b[ 'hc j Uf]ci g'h\Ycf]Yg'Ua cb[ 'ZUbg" + jgYYa g Wf]cg]hm`]g`d]eiYX`Vm`h\Y`bch]cb`h\Uh`6c\`Ybg`dfYgYbWY`Uh`h\Y Yj Ybh Wci `X`\Uj Y`]bZi YbWX`5bXYfg `XYW]g]cb"`H\]g`gdYW``Uh]cb [U]bg'a cfY'k Y][\h'Wcbg]XYf]b['h\Uh'6c\`Yb'\UX'a UXY'gca Yk \Uh X]qdUfU[]b['fYa Uf\_q'UVci h'G]`VYfY]qYb``YUX]b['i d'hc'h\Y dYfZcfa UbWY"'H\Y'XfUa U'gi ffci bX]b[ 'h\YgY'hk c']Wcbg'WYfhU]b`m UXXg'Ub'YI hfU``UmYfcZ']bhf][iY'hc'h\Y]f'diV`]WdYfgcbUg"

8i f]b[ `\]g`fYWbh'UddYUfUbWY cb NUffY``U g`g\ck ž5bXYfg`X]Xb h g\m'Uk Um'Zfca 'h\Y'gdch`][\h"'<Y'YbhYfhU]bYX'Ui X]YbWyg'k ]h\'U Xi Yh'U`cb[g]XY'ZY``ck 'Ufh]gh'Fc`UbX'?U]gYfž'dYfZcfa ]b[' 8]W\ ni `]YVYb" 'H\]g'bch'cb`m'g\ckWUgYX'5bXYfg 'j YfgUh]`]hm'Vi h'U`gc'\]g UV]`]hm'hc'fYa U]b'fY`Yj Ubh']b'h\Y'Yj Yf!Yj c`j ]b[ 'a i g]WgWbY"' =h g WYUf'h Uh' Y'gh Vc mg' C Vc f Uh b [ 'k ]h 'ZY c k 'Ufh ghg z'Ug' YX]X`k]h\`NUffY``Už`k\c'dfU]gYX`\]a`UbX`YW\cYX`gYbh]a Ybhg`cZ UXa ]fUh]cb h\Uh ZUbg \Uj Y \Y X Zcf mY Ufgž Ug bchY X Vm A N"

5bXYfg ']``i ghf]ci g'WUfYYf'VY[Ub'bch'k ]h\ci h']hg'Vi a dg"'5'Vf]YZ  $cc_{ibhc} = bhc^{i} g^{i} dUgh^{i} fY_{i} YU^{g} h^{h} h^{h} Y^{i} ghUfhY X^{i} Z_{b} X_{b} (^{i} g^{i} Z_{c} h_{b}) (^{i} b)$ 

h\Y`a i g]W]bXi ghfm'Ug'YUf`m'Ug'%- +- ž``UhYf'[U]b]b[ 'ZUa Y`k ]h\

## H\ca Ugʻ5bXYfg. 5 A i g]₩U`⇒ci fbYm

A c X Y fb 'HU`\_]b [ ']b 'h\ Y '%- , \$gž h\ Ub \_g 'hc '\ ]hg ``]\_Y ' Mci fY 'A m < YUfhž Mci fY A m Gci " 5g fY Wci bhY X cb \]g K ]\_]dY X]U dU[ Yž h\Y dU]fž:Zcfa YX:Vm:5bXYfg:UbX:6c\`Ybž:VYWJa Y:9i fcX]gWc:`Y[YbXgž fUW\_]b[ 'i d 'a ]``]cbg cZfYWcfXg gc`X k cf`Xk ]XY"'H\Y]f gd`]h ]b %- , +ž UbX``UhYf`fYi b]cbqž'UfY'dUfh`cZ'U`bUffUh]; Y`k cj Yb`k ]h\`Vch\

hf]iad\UbXhYbg]cb"

G]bWY h\Ybž5bXYfg`\UgW``h]j UhYX`U`gc`c`WUfYYfžYI d`cf]b[ jUf]cig`[YbfYg`k\]`Y`Wcbh]bi]b[`hc`VYUf`h\Y``Y[UWm`cZ`\]g`AcXYfb HU`\_]b[ 'XUmg"'9j Yb'UZhYf'h\Y]f'Z]bU`'X]ggc`i h]cb']b'&\$\$' ž'5bXYfg \Ugʻa UbU[YX`hc`WUfjY`U`i b]eiY`b]W\Y`Zcf`\]a gY`ZždUfh]W]dUh]b[ ]b`hU`Ybh`g\ckg`UbX`YIdYf]a Ybh]b[`k]h\`bYk`aig]WU``ghm`Yg"`<]g fYhi fb hc ; Yfa Ub!`Ub[i U[Y a i g]W]b fYWbh mYUfg`\Ug'VYb k Y``! fYWY] YXža Uf\_]b[ 'U'g][ b]Z]WUbh'WXUdhYf']b'\]g'Ufh]gh]WYj c`i h]cb"

K \]`Y`h\Y`W ffYbh`XmbUa ]Wg`Ua cb[ 'h\YgY`Zcfa Yf`VUbXa UhYg`UfY f]dY<sup>·</sup>Zcf<sup>·</sup>gdYW<sup>·</sup>`Uh]cbž<sup>·</sup>k \Uh g<sup>·</sup>WYUf<sup>·</sup>]g<sup>·</sup>h\Uh<sup>·</sup>Vch\<sup>·</sup>H\ca Ug<sup>·</sup>5bXYfg UbX'8]YhYf'6c\`Yb'\c`X'd]jchU`'d`UWYg']b'h\Y'\YUfhq'cZ'h\Y]f'ZUbg" H\Y]f`a i q]WU``^ci fbYmg`Wcbh]bi Y`hc`]bhYf`UWYž` YYd]b[`h\Y`ZUa Y cZAcXYfb'HU`\_]b[ g``Y[ UWm'U`]j Y']b'acfY'k Umg'h\Ub'cbYž'Ug'k Y k UhWX 'Zcf'k \Uhg'bYI h'cb'h\]g'WUdh]j Uh]b[ 'a ig]WU``\cf]ncb"

: cf'a cfY'cb'h\Y``UhYgh'Zfca 'h\Y' GW\`U[YfVcca 'Yj Ybh'UbX ]bg][\hg`]bhc`H\caUg`5bXYfgž'fYUX`acfY`Zfca`<mark>GcYghYf`5bnY][Yf</mark> UbX'A N"

8YhU]`g	
Cfh	?]hnVØ∖Y`ž5i ghf]U
EiY``Yb	• k k k "gcYghYf!UbnY][Yf"XY
	• k k k "a n"XY
	• Yb"a "k ]_]dYX]U"cf[

## 6Ygi WXYb G]Y i bg Ui Z a Y]b!k ]Yb"bYh