

K]f'ghY``Yb'XYb'<][\`UbXYf'C`ma dig'HfY_]b'; f]YWXYb`UbX'j cf</pre>

DY hY figwx `]Y » hig]Wx `XYa i <][\`UbXYf '5 Xj Ybhi fY 'HYUa 'Ui Z ; f]Y W Yb`UbXg`\ OW ghYa ;]d ZY`Ubži a 'XYb'bYi Yb <][\`UbXYf 'C `ma di g'HfY_'ni 'Yf_i bXYbžXYf bÀW ghYg'*J\f ghUfhYh'HfY__]b[']ghij]Y``Y]W hib]W hiXUg'YfghYž'k Ug'Y]bYa ']b XYb'G]bb'_ca a hž'k Ybb'a Ub'Ub'Y]bYb'6Ygi Wx ']b ; f]YWXYb`UbX'XYb_h'''Jcb'A mh\c`c[]Y'Xi fWXXfi b[YbY'Ubh]_Y Fi]bYbž**bgY`\Ød ZYb'Xi fWX 'X]Y'''[A]g'cXYf'GWX`Ya a Yb'XYf _Ogh`]WXYb''?ØWXY'XYg'@UbXYg'k YfXYb'G]Y'U``Yk U\fgWXY]b`]WX ni YfghifY[]ghf]YfYb'''6YhfYh'b'G]Y'XYb'C`ma dž XYb'\OW ghYb'i bX'gU[Ybi a k cVYbghYb'U``Yf'[f]YWX]gWXYb 6Yf[Y''8 Ug'A Ugg]j 'VY\YfVYf[h'Y]b'BYhn'j cb'K UbXYfk Y[Yb i bX'6Yf[\ØhhYbži a 'K UbXYfYf'Ub'XYb' < Ab[Yb'XYg gU[Ybi a k cVYbYb' H\fcbg'XYf'; OhhYf 'ni 'i bhYfghØhnYb'' 8Yf'@Y[YbXY'/ Ua d\Y'`]d/

 $DYhYf'gWX`]Y*h'g]WX`XYa`<][\`UbXYf'5Xj Ybhi fY'HYUa`Ui Z ; f]YWXYb`UbXg'\OWXghYa`;]dZY``Ubž'i a`XYb'bYi Yb'<][\`UbXYf C`ma di g'HfY_'ni 'Yf_i bXYbž'XYf'bAWXghYg'*J\f'ghUfhYh$

HfY__]b[']gh'j]Y``Y]W\h'b]W\h'XUg`YfghYž'k Ug`Y]bYa ']b'XYb'G]bb
_ca a hž'k Ybb'a Ub'Ub'Y]bYb'6Ygi W\']b'; f]YW\Yb`UbX'XYb_h"'Jcb
A mh\c`c[]Y'Xi fW\Xfi b[YbY'Ubh]_Y'Fi]bYbž'\DgY`\ØdZYb'Xi fW\'X]Y
Ÿ[A]g'cXYf'GW\`Ya a Yb'XYf'_Ogh`]W\Yb'?ØW\Y'XYg'\DgUbXYg'k YfXYb
G]Y'U``Y'k U\fgW\Y]b`]W\'ni Yfgh'fY[]ghf]YfYb"'6YhfYhYb'G]Y'XYb
C`ma dž'XYb'\OW\ghYb'i bX'gU[Ybi a k cVYbghYb'U``Yf'[f]YW\]gW\Yb
6Yf[Y"

8 UgʻA Ugg]jʻVY\YfVYf[hʻY]bʻBYhnʻjcbʻK UbXYfkY[YbʻibX 6Yf[\ØhhYbžia 'K UbXYfYfʻUbʻXYbʻ<Àb[YbʻXYgʻgU[YbiakcVYbYb H\fcbgʻXYf'; OhhYfʻni i bhYfghØhnYb"'8Yfʻ@Y[YbXYʻbUWX ``YVhY NYi gž'XYf'? Òb]['XYf'; ÒhhYf']b 'XYf'[f]YW]gW Yb 'A mh\c`c[]Yž'Ui Z XYa '\ÒW ghYb 'Di b_h'XYg '@UbXYg'Ui Z'XYa '&"-\$&'a 'fl-") &%': i » Ł\c\Yb 'J cf[]dZY`'j cb 'GhY ZUb]ž'Ui W 'VY_Ubbh'U`g'H\fcbcg'8]cg fH\fcb 'XYg'NYi gŁ"

5h`Ug'/ '6cchg';]dZY`[fUh'XYg'C`ma d'a]h'XYa 'H\fcb'XYg'NYi g'Ui Z XYf``]b_Yb'GY]hY

8Yf'<][\`UbXYf'C`ma di g'HfY_ž'Y]bY'XYf'bYi YghYb'9f[Àbni b[Yb]b'XYf'<][\`UbXYf'5Xj Ybhi fY!?c``Y_h]cbž'gc``hY'X]YgYg'\J\f
ghUfhYbž'k i fXY'UVYf'Ui Z[fi bX'`c_U`Yf'GdYffYb'j YfgWkcVYb"'8U\Yf
k i fXY']Wk'Y]b[Y`UXYbž'Ub'Y]bYf'j Yf_ØfnhYb'XfY]hÀ[][Yb
J YfUbghU`hi b['Ui Z'XYa '6Yf['hY]`ni bY\a Ybž'i a 'X]Y'Fci hY'i bX
Y]b][Y'XYf'<Ò\Ydi b_hY'XYg'HfU]`g'ni 'Yf_i bXYb"

<][\`UbXYf!C`ma di g!HfY__]b[</pre>

8]ghUbn. '%\$&'_a 'f* ('a]Ł'5i Zgh]Y[#5Vgh]Y[. '* "' ' , 'a #* "' ' + 'a K Y]hYfY '\DZcfa Uh]cbYb. '\][\`UbXYfUXj Ybhi fY"Wca

8 Yf'Fi bXk Y['<][\`UbXYf'C`ma di g'b]a a h'K UbXYfYf'a]h'Ui Z'Y]bY gdUbbYbXY'FY]gY'Xi fW\ 'Y]bYb'BUh]cbU`dUf_ž'XYf'fY]W\ 'Ub; YgW\]W\hYž'?i`hi f'i bX'Ò_c`c[]gW\Yf'J]Y`ZU`h']gh"'8 Ug'; Y`ÀbXY fi bX'i a 'XYb'\Y]`][Yb'6Yf[']a 'À`hYghYb'BUh]cbU`dUf_; f]YW\Yb`UbXg'VY\YfVYf[h'ØVYf'%"+\$\$'DZ'UbnYbUfhYbž'%\$\$ Jc[Y`UfhYb'i bX'' \$'GÀi [Yh]YfYž'XUfi bhYf'K Ò`ZYž'GW\U_U`Y'i bX [f]YW\]gW\Y'; Àa gYb"

 $8]Y' < \grave{A}b[Y'ibhYf\setminus U`V'XYf'6Uia[fYbnY'g]bX'Ub'aUbW\Yb'GhY``YbX]W\h'VYkU`XYhž'k\grave{A}fYbX'X]Y'\\grave{O}\YfYb': Y`g[]dZY``\\grave{A}iZ][']b'Kc`_Yb[Y\setminus\varnothing``h'g]bXž'kUg'XYb';]dZY``ZØf'X]Y']a'HU```YVYbXYb'GhYfV`]W\YbcZh'ibg]W\hVUf'aUW\h'$

5h`Ug/ '6cchg'l bgYf'7Ua d]b[d`Uhn'VY]a '?`cghYf'5[]U'Hf]UXU

8 Yf'K Y['VY[]bbh'i bX'YbXYh']a '8 cfZ'@]hcWkcfcž'i a fi bXYh'XYb GØXYb'XYg'6Yf[Ygž'VYj cf'Yf'bUWk'BcfXYb'UVV]Y[h'i bX'XUbb'bUWk CghYb'X]Y'i bhYfYb'< Àb[Y'i bX';]dZY`_Àa a Y'\]bUi ZZØ\fh"'I bgYf HYUa 'd`UbhYž'5VgWkb]hhY'XYg'HfU]`g'ni 'j Yfj c``ghÀbX][Yb'i bX XUVY]': U\fnYi [Y'Y]bni gYhnYbž'i a 'g]Wk'nk]gWkYb'?cbhfc``di b_hYb i bX'HfU]`\YUXg'ni 'VYk Y[Yb"

→W. 'hfUZ'XUg'HYUa ']b'H\YggU`cb]_]ž'XYa 'bÀW\gh[Y`Y[YbYb
]bhYfbUh]cbU`Yb': `i [\UZYb'ni f'C`ma di g_YhhYž'i bX'[]b['ni a
?cbhfc``di b_h'nk Y]ž'Y]bYa '_`Y]bYb'7Ua d]b[d`Uhn'Ui »Yf\U`V'XYg
?`cghYfg'5[]U'Hf]UXU']b'XYf'BÀ\Y'XYg'k]bn][Yb'8cfZYg'GdUfa cg"

5h'Ug/ '6cchg'=a '6Y[f]ZZZX]Y'7\f]ghU_]!Ni Zi W\h'ni 'j Yf'UggYb

K]f`nY`hYhYb`ZØf`X]Y`BUW\hž`VYj cf`k]f`Ua `A cf[Yb`ni f`7\f]ghU_]!
Ni Zi W\hž`XYa `Cfh'j cb`7\YW_dc]bh`XfY]ž`Z\fYb"`8]Y`Ui Z`Yhk U
&"('\$`a `f\+"-+&`Zh\-"[Y`Y[YbY`GW\i hn\ØhhY`k]fX`cZh`U`g
5i g[Ub[gdi b_h`ZØf`HU[Ygk UbXYfYf`[Ybi hnhž`X]Y`XYb`C`ma d`gc
gW\bY```k]Y`a Ò[`]W\`VYghY][Yb`k c``Ybž`XU`g]Y`a]h`Y]bYa
(³(!:U\fnYi[`YffY]W\h`k YfXYb`_ÒbbYb"'\
a Y]ghYb`a Y\fh\[][Yb`K UbXYfYf`j cb`Df]Ĭ b]U`cXYf`@]hc\cfc`]a
CghYb`XYg`6Yf[Yg"

K]f'\]Y`hYb`Ub`XYf`GW\i hn\ØhhY`Ubži a `i bgYfY`5i gfØghi b[`ni cf[Ub]g]YfYb`i bX`Y]b`dUUf`: chcg`ni `a UW\Ybž`VYj cf`k]f`i bgYfY Fi W_gÀW_Y`Ubnc[Yb`i bX`XYb`6Yf[`\]bUi Z[]b[Yb"K]f`gW\`cggYb i bg`Y]bYa `ghY]b][Yb`DZUX`Ubž`XYf`g]W\`U``a À\`]W\`XYb`6Yf[\Ub[

\]bUi ZVYk Y[hi bX:XYa hfUbgYi fcdA]gWkYb: Yfbk UbXYfk Y['9(Zc`[hž:XYf:XUg'[YgUa hY:C`ma di g!A Ugg]j 'U`g'HY]`'gY]bYf'%\$"\$\$\$ _a 'ff" "&\$\$`A Y]`YbŁ'`Ub[Yb'GhfYW_Y'j cb'GdUb]Yb'bUWk NmdYfb Xi fWkei Yfh"

 $5b^*XYf^*6OgWkib[^*V]Y[h^*XYf^*K Y[^*nia^*AigYbd^*UhYUi^*Ui^*Z^*\&"^*) $^*afl^*"^* - (^*:i^*)^*E^*UV^*Z^*K c^*g]Wk^*X]Y^*K]f_^*]Wk^*gdY_hU_i^*AfYb^*5i gg]Wk^hYb^*niYbhZU^*hYb^*VY[]bbYb^*"8 Ug^*f]Yg][Y^*ZY^*g][Y^*;]dZY^*a Ugg]j^*XYg^*C^*mada]h^*gY]bYf^*a Uf_UbhYb^*FY]\Y^*j cb^*ghUWkY^*][Yb^*N]bbYb^*fU[h^*ØVYfXYa^*ia[YVYbXYb^*K c^*_YbaYYf^*Ui^*Z']$

K]f`\]Y`hYb`Ua '&"- %%'a 'f\ ")) %: i » Ł`\c\Yb`BYVYb[]dZY``j cb G_c`]Ï 'a]h'gY]bYf'd\Àbca YbU`Yb'5i gg]W\h'ZØf'Y]bY'_i fnY`DUi gY Ubž'VYj cf`k]f`k Y]hYf'Ybh`Ub['XYf'GhY]`_ØghY'ni a 'bÀW\ghYb BYVYb[]dZY``j cb'G_U`U'Ui Z'&", ** 'a 'f\ "(\$' ': i » Ł'[]b[Yb"

6YkY[YbG]Yg]WXX]YibhYfYbAb[YN]bUiZ

 $8]Y `c ZZ]n]Y ``Y `<][\ `Ub XYf! F ci hY `ZØ \ fh'b]W h'ni a `k U \ fYb < O \ Ydi b_h `XYg `6Yf[Ygž XYa `&"- %, `a `ff ") + $ `ZhŁ ` c \Yb `;]d ZY ``j cb A mh]_Ugž `XU `g]Y `Y]b `\ YfUi gZcfXYfb XYg `? `YhhYfb `YfZcfXYfhž `XUg `]b XYb `I G5 `U`g `? `YhhYfb `XYf `? `UggY '' `c XYf `]b '; fc > Vf]hUbb]Yb `U`g ? `YhhYfb `XYf `? UhY [cf]Y '' `Y]b [Yghi Zh `k]fX `GmghYa ": Øf `YXYb `XYf$

g]W\'gY]bYf': $A\$ [_Y]hYb'g]W\Yf']gh'i bX'g]W\'VY]a '? `YhhYfb'ØVYf ZfY]`]Y[YbXY': Y`gk AbXY'k c\`ZØ\`hž']gh'Y]bY'5Vnk Y][i b['ni a ;]dZY``a $O(\)$ W\"

K]f'k c``hYb'i bVYX]b[h'XYb'\ÒW\ghYb';]dZY``YfcVYfbž'U`gc'`]Y» Yb k]f'i bgYfY'gW\k YfYb'Fi W_gÀW_Y']b'G_U`U'i bX'VY[UbbYb'XYb Ui ZfY[YbXYb'5i Zgh]Y['bUW\'A mh]_Ug"'8]Y'?U_]'G_U`Už'cXYf HYi ZY`ghfYddYž'ZØ\fh'ni bÀW\gh'ghY]``\]bi bhYf']b'XYb'5V[fi bXž'XYf X]Y'VY]XYb';]dZY``hfYbbhž'VYj cf'g]W\'X]Y'Fci hY'\]b'i bX'\Yf k]bXYhž'Y]bY'ghY]`Y'GW\`i W\h'\]bUi Zž'fi bXY': Y`gj cfgdfØb[Y'i bX ØVYf'JYfh]YZ b[Yb'ØVYf'Y]bYf'FY]\Y'j cb'a U[Ybi a XfY\YbXYb HfcdZYb"

5h`Ug7 6cchg

VYfei Yfi b['j cb'G_c`] i 'ni a 'A mh]_Ug!;]dZY`

 $8]Y';]dZY`d`UhhZcfa 'j cb'A mh]_Ug'V]YhYhY]bYb'DUbcfUa UV`]W_'Ui Z Y]bYb'K c`_YbhYdd]WX ž'XYf'bi f'j cb'XYb'nYf_`ØZhYhYb';]dZY`b'XYg C`ma di g!A Ugg]j g'i bhYfVfcWXYb'K]fX"'5b'_`UfYb'HU[Yb'_Ubb'a Ub V]g'ni f'[`]hnYfbXYb'Ÿ[À]g'V`]W_Yb"$

 $8]Y T a Y]hi b[XUi Yfh'j ca G_U`U!;]dZY``Ui g`ni gÀhn`]WXY`nk Y] \\ Ghi bX\bar{Y}b Ti bX YfZcfXYfh'bUWX Y]bYa YYfY]hg``Ub[Yb`K UbXYfhU[Y]bY Yf\YV`]WXY`A Yb[Y`Ub`9bYf[]Y''K UbXYfYf`gc``hYb`X]Y`A mh]_Ug!;]dZY\bar{V}YghY][i b['bi f'i bhYfbY\a Ybž'k Ybb`g]Y`ØVYf? YhhYfYfZU\fi b['j YfZØ[Yb`i bX`g]WX`]b`Yl dcb]YfhYa '; Y`ÀbXY k c\`Z\bar{V}\Yb''$

BUWX XYb cV`][Uhcf]gWX Yb;]d ZY Zchcg'j YfZc`[hYb'k]f'i bgYfY Fci hY'ni fØW_'bUWX G_U`U'i bX'gWX`cggYb'i bg'XUbb'Y]bYa '_]Yg][Yb DZUX 'Ubž'XYf'gW\bY```UVZ\\``hž'k Ybb'Yf'Y]bYb'; Yf\\O``\Ub['\U`V]Yfh'' K]f'gh]Y[Yb']b'X]Y'K c`_Yb'\]bUVž'U`g'XYf'DZUX'Ui Z'XYa 'K Y['ni f Gd]`]cg'5[Ud]hcg'FYZi [Y'k]YXYf'Ub'XYf'6Ui a [fYbnY'Ub_Ua "'K]f Zi \fYb'k Y]hYf'Xi fW\'Y]bYb'Zf]YX`]W\Yb'5VgW\b]hh'XYg'K U`XYgž'XYf U`g' K U`X'XYf'Gh]``Y 'VY_Ubbh']ghž'i bX'k Y]hYf'bUW\'Df]ï b]Už'XYa Cfh'j cb'?cbhfc``di b_h'j]Yf"

• 'U`h1 2

5h`Ug7 %cchg

K Y]hYfY GnYbYb j cb XYf K UbXYfi b[

CVk c\``k]f'[i hYg'K YhhYf'ZØf'XYb';]dZY``\UhhYbž'k Uf'i bg']a a Yf VYk i gghž'XUgg'Y]b'FY[Ybghi fa 'X]Y'FY[]cb'hfYZZYb'gc``hY'i bX'Yf Ua 'A cf[Yb']b'GhÀf_Y'Y]bhfUZ''8]Y'j]YfghØbX][Y'K UbXYfi b['j cb i bgYfYa '7 Ua d]b[d`Uhn'VY]a '?`cghYf'k Uf'n]Ya`]WX 'a]gYfUVY`ž cVk c\``k]f'Xi fWX'X]Y'k i bXYfgWX ObY'9b]dÅUg!GWX`i WXh'a]h']\fYb gWXk]bXY`YffY[YbXYbž'k U`XVYk UWXgYbYb'?`]ddYb'i bX 5i gg]WXhgdi b_hYb'Ub'XYb'?`]ddYb'[YZU\fYb'g]bX"

5`g`k]f']b'@hc\cfc'Ub_Ua Ybž'kUfYb'k]f'XifW\bÀggh'ibX'gchUiW\hYb'k]f']b'XUg'bÀW\ghY'7UZÅž'ia 'HUggYb'a]h'XUa dZYbXYa?UZZYY'ni'VYghY``Yb'ibX'hfcW_YbY'?`Y]Xib['Ubnin]Y\Yb"

5h`Ug/ '6cchg'DYhYf']b'G_c`]Ï

K]Y a Ub g]W fY[]ghf]Yfh

 $8 \ Yf'YbX[\ \emptyset'h][\ Y'HYfa\]b'Z\emptysetf'XYb'<][\ \`UbXYf'C`ma\ dig'HfY_'&$\&\&\&$a\ i\ gg'bcW.'VYghAh][\ h'k\ YfXYbž'k\]fX'UVYf'j\ cfUi\ gg]W\ h`]W\ ']a \\ \\ \not\Rightarrow b]'ghUhhZ]bXYb''$

: fØ\Vi W\Yf!9]bhf]hhY`VY[]bbYb`VY]`%(- ` `f%, \$`` Ł'dfc`DYfgcb" K Ybb`G]Y`g]W\`Y]bYf`; fi ddY`UbgW\`]Y» Ybž`[]Vh`Yg`J]Yf!ZØf!8fY]! 5b[YVchY"

@UggYb`G]Y`Yg`a]W\`k]ggYbž'k Ybb`G]Y`g]W\`ZØf`X]Y`K UbXYfi b[
Uba Y`XYbž'XU`]W\`d`UbYž'bÀW\ghYg`\J\f`ni fØW_ni _Y\fYbž'i a `X]Y
[YgUa hY`GhfYW_Y`ni `UVgc`j]YfYb"`\JW`\cZZYž'k]f`gY\Yb`i bg`XU
XfUi »Yb°

@Y]hV]`X.'5h`Ug'/'6cchg

•

.

8 Y hU] `c

6Ygi WXYb'G]Y'i bg'Ui Z.'Y]bY!fY]gY"XY