



# SOCW1001

Wjcb'hc'GcWU`K cf\_

HYfa`CbY`##`&\$&%

GWcc`cZGcWU`GWYbWg`##`I BGK`..5ftg`UbX`GcWU`GWYbWg




7ci fgY'8YHJ]`g

7fYX]hDc]bHg`\*`

Gi a a UfmicZħY'7ci fgY

H\]g`Wci fgY`]bfcXi W`g`mci`hc`ħY`gWcdY`UbX`dUfUa`Yħfg`cZħY`gcWU`k`cf`\_dfcZYgg]cb`" `#dfcj`]XYg`Ub`cj`Yfj`]Yk`UbX`fUħ]cbU`Y`Zcf`ħY`'6GK`fk`cbgŁ`W`ff]W`i`a`VmidfYgYbħ]b[`cb`\_YmUfYUg`cZgcWU`k`cf`\_`\_bck`YX[`Y`UbX`dfUW]W`ž`]bW`X]b[`ħY`X]j`Yfg]mWcbħY`hg`cZgcWU`k`cf`\_]bħfj`Ybħ]cbž`ħY`fUb[`Y`cZħYcfm`UbX`\_bck`YX[`Y`ħUħ]bZcfa`g`gcWU`k`cf`\_dfUW]W`ž`UbX`ħY`WcXY`cZYħ`]Wg`ħUħ[`i`]XYg`dfcZYgg]cbU`]bħfj`Ybħ]cb`"5`j`Uf]YħmcZWUgY`gh`X]YgžgcWU`k`cf`\_dfUW]W`gW`bUf]cg`UbX`dfUW]ħ]cbYf`dYfgdYW]j`Yg`k`]`VY`i`gYX`hc`]i`ghfUħ`ħ`]g`a`Uħf]U`"5`dd`]YX`gcWU`k`cf`\_Z]Y`X`YI`Ua`d`Yg`k`]`U`gc`VY`i`gYX`hc`YI`Ua`]bY`ħY`]b\_g`VYħ`YYb`WcbW`dh`U`\_bck`YX[`Y`UbX`dfUW]W`Udd`]W]ħ]cb`"5`fUb[`Y`cZfY`Yj`UbhU[`YbW]Yg`k`]`VY`dfcZ]YX`UbX`gh`X]YX`]b`ħ`]g`Wci`fgY`"

7ci fgY`@YUfb]b[`C`i`hWca`Yg

%`9I`d`U]b`gcWU`k`cf`\_ħYcfmUbX`j`U`i`Yg`  
&`C`i`h]bY`ħY`X]j`YfgY`fUb[`Y`cZZY`Xg`UbX`WcbħY`hg`k`]ħ`]b`k`\\]W`gcWU`k`cf`\_]bħfj`Ybħ]cb`a`UmicVW`f`  
'`"5`dd`m`\_bck`YX[`Y`cZgcWU`k`cf`\_ħYcfmUbX`j`U`i`Yg`hc`U`fUb[`Y`cZgcWU`k`cf`\_Z]Y`Xgž`WcbħY`hgž`  
a`YħcXgž`UbX`]bħfj`Ybħ]cbg`  
(`"9I`Ua`]bY`ħY`fc`Y`cZgcWU`k`cf`\_ħYcfmUbX`j`U`i`Yg`]b`gcWU`k`cf`\_dfUW]W`"

HYUW]b[`GħfUħ[`]Yg`

F`Uħ]cbU`Y`

H\]g`Wci fgY`]g`]bW`i`XYX`hc`YbUV`Y`gh`XYbHg`hc`XYj`Y`cd`U`\_bck`YX[`Y`VUgY`UbX`g`\_]g`]b`W]ħ]WU`UbU`mg]g`ħUħ`WU`b`VY`Udd`]YX`hc`\_YmUfYUg`cZWcbW`fb`"H\]g`k`]`U`m`U`gc`]X`Z`i`bXUħ]cb`Zcf`ħY`XYj`Y`cda`YbħcZ]f`ħYf`gcWU`k`cf`\_bck`YX[`Y`UbX`dfUW]W`g`\_]`XYj`Y`cda`Ybħ`H\]g`fYZYW]g`ci`f`dcg]ħ]cb`ħUħdfUW]W`k`]ħ`]b`ħY`GcWU`K`cf`\_Z]Y`X`k`]`f`Yei`]fY`gh`XYbHg`hc`VY`Yei`]ddYX`k`]ħ`Vch`\_bck`YX[`Y`cZħY`gYW`hc`f`Ug`k`Y`U`g`U`W]ħ]WU`Z]Ua`Yk`cf`\_`hc`i`gY`]b`i`bXYfgh]bX]b[`ħY`bYYXg`cZW]YbHg`[`fci`dgž`ħY`]bZi`YbW`cZWcbħY`hcb`XYZ]b]b[`ħY`f`bYYXg`UbXž`]b`ħY`"][`ħcZħUħž`ħY`fc`Yg`ħUhg`cWU`k`cf`\_Yfg`a`][`ħ`d`U`m`U`g`U`f`Ygi`hc`Zħ`]g`"

HYUW]b[`GħfUħ[`]Yg`

H\Y`ħYUW]b[`]g`ZcW`gYX`Ufci`bX`U`bi`a`VYf`cZWUgY`gh`X]Yg`k`\\]W`k`]`VY`i`gYX`hc`YI`d`cfY`ħY`fUb[`Y`cZ`UggcW]UħY`GcWU`K`cf`\_]ggi`Yg`ħUħUf]gY`Uħ]bX]j`]Xi`U`ž`Z]a`]nž`Wca`a`i`b]m]UbX`gcW]YU`Y`Y`g`"H\Y`WUgY`YI`Ua`d`Yg`k`]`Y`bgi`fY`ħY`Wcbg]XYfUħ]cb`cZYħ`]WU`X]Ya`a`Ugž`UbX`ħY`fUb[`Y`cZdcgg]Y`gcWU`k`cf`\_`gYfj`]W`fYgdcbgYg`"H\Y`ħYfY`\_Ym]ggi`Yg`cZ]X]j`Yfg]mž`a`YbħU`\\YU`ħ`UbX`W]X`k`Y`VY]b[`#dfch`W]ħ]cb`k`]`VY`ħY`ZcW`g`cZ`YUfb]b[`"GdYW]Z]Wdcdi`Uħ]cbg`cZ`cf`chYb`5i`ghfU`]Ubgž`ħY`Ghc`Yb`;`YbYfUħ]cb`UbX`5gmi`a`GYY`\_Yfg`k`]`VY`i`gYX`hc`]i`ghfUħ`ħY`gY`\_YmUfYU`UfYUg`"

C`bY`VUg]WUggi`a`dħ]cb`k`Y`a`U`\_Y`]b`ħ`]g`Wci`fgY`]g`ħUħU`gh`XYbHg`Vf]b[`VUW`[`fci`bX`\_bck`YX[`Y`UbX`]Z]YI`dYf]YbW`hc`WUggYgž`UbX`ħUħ]h]g`ħUħ`\_bck`YX[`Y`UbX`YI`dYf]YbW`ħUħ]g`U`fYU`XmidcggYggYX`k`\\]W`]g`ħY`a`cgh]a`dcfUħ]b[`fYX]Ybħ]b`YUfb]b[`]b`#ħfcXi`W]ħ]cb`hc`GcWU`K`cf`\_`C`i`f`a`YħcX`cZħYUW]b[`fYei`]fYg`UW]j`Y`dUf]W]dUħ]cb`]b`gh`XYbHg`ck`b`YUfb]b[`ž`UbX`Ub`UW]j`Y`i`gY`cZk`\\Uħ]g`U`fYU`Xm`\_bck`b`"

H\Y`YWñ fYg`k ]` ]bj`c`j`Y`X]gW`gg]cb`c`Z`h`Y`h`Y`c`f`Y`h`W` ]b`Z`c`f`a`U`h`c`b`V`Y`]b`[` `g`h`X`]Y`X`U`g`k`Y`U`g`d`f`Y`g`Y`b`h`U`h`c`b`g`  
h`U`h`U`f`Y`X`]f`Y`W`h`i`f`Y`U`h`Y`X`h`c`h`Y`d`f`U`W`h`W`g`]h`U`h`c`b`g`V`Y`]b`[` `g`h`X`]Y`X`"G`c`a`Y`d`f`Y`g`Y`b`h`U`h`c`b`g`k` ]`W`c`b`g`]g`h`c`Z`d`Y`c`d`Y`  
k` \`c` \`U`j`Y`Z`]f`g`h` \`U`b`X`d`f`U`W`h`W`Y`I`d`Y`f`]Y`b`W`z`U`b`X`h`h`g`]g`U`j`U`i`U`V`Y`c`d`d`c`f`h`b`]h`m`Z`c`f`g`h`X`Y`b`h`g`h`c`U`g`\_`h`Y`]f`c`k`b`  
e`i`Y`g`h`c`b`g`U`b`X` \`U`j`Y`[`Y`b`Y`f`U`W`U`g`g`X`]g`W`gg]cb`"

h`U`W`W`c`f`X`U`b`W`k` ]h`I`B`G`K` `@`Y`U`f`b`]b`[` `U`b`X`H`Y`U`W`X`]b`[` ;` i` ]X`Y`]b`Y`g`h`h`g`W`c`i`f`g`Y`]b`h`Y`b`X`g`h`c`Y`b`[`U`[`Y`g`h`X`Y`b`h`g`]b`  
`Y`U`f`b`]b`[` `V`m`d`f`c`j` ]X`]b`[` `c`d`d`c`f`h`b`]h`]Y`g`h`c`Y`b`[`U`[`Y`]b`h`Y`g`c`W`U`k`c`f`\_`W`c`b`h`Y`I`h`j` ]U`U`j` ]g`]h`c`U`b`U`[`Y`b`W`h`c`Z`h`Y`]f`  
W`X`c`]W`"G`h`X`Y`b`h`g`U`f`Y`Y`b`W`c`i`f`U`[`Y`X`h`c`X`]g`W`gg`h`Y`]f`Y`I`d`Y`f`]Y`b`W`g`c`Z`D`f`U`W`h`W`a`#`c`i`b`h`Y`f`U`b`X`Y`a`d`c`m`X`  
d`c`g`]h`c`b`g`]b`f`Y`U`h`c`b`h`c`g`c`W`U`k`c`f`\_`#`Y`Z`]f`Y`W`U`g`Y`g`h`X`m`g`W`b`U`f`]c`g`d`f`Y`g`Y`b`h`X`h`f`c`i`[` \`c`i`h`h`Y`W`c`i`f`g`Y`"

## 5ggYgga Ybh

K YY\_g`%!( `cZ`YWhi fYg`UbX`h hcf]U`g`k ]`Wcj Yf`WcbhYbhHUh]g`X]fYWhiFY`Yj Ubhlc`Wca d`Yh]cb`cZ  
 5ggYgga Ybh%žk \]Y`k YY\_g`)!%\$`cZ`YWhi fYg`UbX`h hcf]U`g`k ]`Wcj Yf`WcbhYbhHUh]g`X]fYWhiFY`Yj Ubhlc  
 Wca d`Yh]cb`cZ5ggYgga Ybh&""

H\]g`]g`k \mUhhYbXUbW`]g`]a dcf]UbhUbX`UW]j Y`dUfh]W]dUh]cb`UbX`Wca a i b]W]h]cb`k ]h`mci f`YWhi fYf`UbX  
 h hcf]g`]g`YggYbh]U`""

; YbYfU`ZYXVUW`cb`UggYgga YbhWca d`Yh]cb`k ]`VY`dfcj ]XYX`]b`K YY`\*`cZHYfa`UbX`XYH]YX`ZYXVUW`  
 k ]`VY`dfcj ]XYX`cb`mci f`a Ubi gW]d]hg`"D`YUgY`Ybgi fY`mci`fYUX`U`Wca a Ybhg`UbX`gYY`\_\Y`d`YUf]m]Zmci  
 bYXX`]h`K`Y`UfY`\_YfY`h`YbWci fU[ Y`UbX`gi ddcf]mci f`XYj Y`cda YbhUg`UW]j Y`UbX`fYZI ]j`Y`YUfbYfg`"

## 5ggYgga YbhHUg\_g

5ggYgga YbhHUg_g	K Y][ \h	8i Y`8UH`	Gh XYbh@YUfb]b[ Ci hWca Yg`5ggYggYX
7 f]h]WU`9I YfW]gY`cb`hcd]Wg fY`Yj Ubhlc`h`Y`Wci fgY`	( \$i	%+#\$` #&\$&%`%%`\$\$`DA	%
5bU`mg]g`cZ7`cbh]I`hUbX DfUW]W`fY`Yj Ubhlc`h`Y` Wci fgY`	* \$i	&, #\$( #&\$&%`%%`\$\$`DA	&ž` ž(

## 5ggYgga Ybh8YH]`g

5ggYgga Ybh%`7 f]h]WU`9I YfW]gY`cb`hcd]Wg`fY`Yj Ubhlc`h`Y`Wci fgY`

GHUfhXUH`. Bch5dd`]WV`Y

@Yb[ h`. %) \$\$`k cfXgž`]bW] X]b[ `fYZfYbW]g

8YH]`g.

5`%) \$\$!k cfX`Ugg][ ba Ybhcb`hcd]Wg`fY`Yj Ubhlc`h`Y`Wci fgY`"

Gh XYbh]UfY`[ ]j Yb`k f]h]b`ZYXVUW`k ]h]b`h`c`k YY\_g`cZgi Va ]gg]cb`"

## 5XX]h]cbU`XYH]`g.

h`h]g`Ugg][ ba Ybh]mci`UfY`fYei ]fYX`h`gi Va ]h]ci f`g`cfh]gh]U]a Ybh]h`Uh]gi a a Uf]gY`mci f`W`ffYbh  
 i bXYfgh]UbX]b[ `cZ`YmY`Ya Ybh]cZ`YUfb]b[ `]b`mci f`ci fbYm]h`VYWca ]b[ `U`gc`W]U`k cf`Yf`"

%`8 ]gW`gg`C B9`cZ`h`Y`XYZ]b]h]cb]g`cZgc`W]U`k cf`\_`dfcj ]XYX`]b`h]g`Wci fgY`"9I d`U]b`\_`ck` ]h]Yb`UbW]g  
 mci f`i bXYfgh]UbX]b[ `cZgc`W]U`k cf`\_`Ug`U`dfcZ]gg]cb`UbX`U`gc`YI d`U]b`k` \m]h]YfY` ]g`bch`g`h]cbY  
 XYZ]b]h]cb]g`cZgc`W]U`k cf`\_`7 ]h]h`Y`gci fW`cZ`h`Y`XYZ]b]h]cb]UbX`U`b]m]h]Yf`gci fW]g`cZ]b]Z`fa`Uh]cb  
 mci`XfUk`i`dcb`f( \$\$`k cfXgž`"

&`G`Y`Whi`UbX`XYgW]VY`C B9`h`Y`cfm]Zc`f`gc`W]U`k cf`\_`ž`ci`h]b]b[ `h`Y`\_`Ym]WcbW]d]hg]ž`a`U]b`h`Y`cf]g]h]gž`\_`ck` ]h  
 ]g]i`gYX`]b`gc`W]U`k cf`\_`UbX`Yj ]XYbW]h`Uh]YI d`U]b]g`cf`gi ddcf]h]h`Y`h`Y`cfm]fF`YZf`h`7`Y`bck ]h`UbX`"

A WUj `]ZYž&\$%- ž7\Udhf') žUbX`Uh`YUghcbY`cHfYf'gci fWŁ" f( \$\$'k cfXgŁ"  
" F YUX`K`U`fYf/`6U`fU!l`cU`f&\$%- Ł7\Udhf'(`]b`C`i`f`J`c]Wg" F YZff)b[ `h`c`h`g`h`i`h`UbX`c`h`Y`f`g`U`g`  
b`Y`Y`X`X`ž`c`i`h]b`Y`h`Y`h`g`h`c`f`m`c`Z`h`Y`g`c`W]U`k`c`f`\_`d`f`c`Z`g`g]c`b`]b`5`i`g`h`f`U`]U`U`b`X`h`Y`W`f`f`Y`b`h]a`d`U`W`g`c`Z`  
W`c`b]g`U`h]c`b`"9`l`d`U]b`k`h`U]g`a`Y`U`b`h`V`m`f`k`h`Y`d`f`j`]Y[`Y`f`i`U`b`X`Y`l`d`U]b`k`h`m`h`Y`d`f`c`Z`g`g]c`b`b`Y`Y`X`g`h`c`  
f`Y`!`h`]b`\_`g`c`W]U`k`c`f`\_`]b`5`i`g`h`f`U`]U`" f( \$\$'k cfXgŁ"  
(" G`H`U`h`h`Y`g`c`W]U`k`c`f`\_`U[`Y`b`W`m`c`i`k`]`f`Y`g`Y`U`f`W`h`h`g`h`Y`f`a`"8`Y`g`W]V`Y`h`Y`U[`Y`b`W`m`V`f]Y`Z`m`ž`c`i`h]b]b[`  
h`Y`d`i`f`d`c`g`Y`U`b`X`a`U]b`g`Y`f`j`W`g`d`f`c`j`]X`Y`X`ž`U`b`X`h`Y`Z]Y`X`U`b`X`W`c`b`h`i`h`c`Z`d`f`U`W]W`ž`W]h]b[`h`Y`g`c`i`f`W`g`  
c`Z`U`h`b`Z`c`f`a`U`h]c`b`f`l`\$\$'k`cf`X`g`Ł"

Gi Va ]gg]cb`b`c`h`Y`g. `D`Y`U`g`Y`Z`c`k`h`Y`G`W`c`c`f`Y`Z`f`Y`b`W]b[ `i`]X`Y`ž`W`c`b`g`i`h`h`Y`f`i`V`f]W`U`b`g`k`Y`f`U`"ei`Y`g`h]c`b`g`  
U`g`\_`Y`X`U`b`X`Z`c`f`a`U`h`m`c`i`f`U`g`g][`b`a`Y`b`h`U`d`d`f`c`d`f]U`h`m`f`

Hi fb]h]b`g`Y`h]b[ .`h`h]g`U`g`g][`b`a`Y`b`h]g`g`i`Va`]h`Y`X`h`f`c`i`[`h`i`fb]h]b`U`b`X`g`h`X`Y`b`g`W`U`b`g`Y`Y`H`i`fb]h]b`g]a`]U`f]m`  
f`Y`d`c`f`g`"

5`g`g`Y`g`g`a`Y`b`h`&.`5`b`U`m`g]g`c`Z`7`c`b`h`i`h`U`b`X`D`f`U`W]W`f`Y`Y`j`U`b`h`c`h`h`Y`W`c`i`f`g`Y`

G`H`U`f`h`X`U`h`Y`. `B`c`h`5`d`d`]W`U`V`Y`

@`Y`b[`h`.`&)`\$\$'k`cf`X`g`ž]b`W`i`X]b[`f`Y`Z`f`Y`b`W`g`

8`Y`h]g`.

5`&)`\$\$!`k`cf`X`U`g`g][`b`a`Y`b`h`c`b`U`h`c`d]W`f`Y`Y`j`U`b`h`c`h`h`Y`W`c`i`f`g`Y`a`U`h`f]U`"

G`h`X`Y`b`g`U`f`Y`[`]j`Y`b`k`f]h`Y`b`Z`Y`X`V`U`W`\_`k`]h]b`h`k`c`k`Y`Y`\_`g`c`Z`g`i`Va`]g`g]c`b`"

5`X`X]h]c`b`U`X`Y`h]g`.

M`c`i`U`f`Y`h`c`g`Y`W`h`c`b`Y`c`f[`U`b]g`U`h]c`b`]b`B`G`K`ž`5`i`g`h`f`U]U`ž]b`k`h]W`g`c`W]U`k`c`f`\_`Y`f`g`U`f`Y`Y`a`d`c`m`Y`X`"M`c`i`  
k`]`f`Y`g`Y`U`f`W`h`h`Y`k`c`f`\_`g`c`W]U`k`c`f`\_`Y`f`g`i`b`X`Y`f`h`\_`Y`]b`h`g`c`f[`U`b]g`U`h]c`b`]b`c`f`X`Y`f`h`c`X`Y`g`W]V`Y`U`b`X`U`b`U`m`g`Y`  
g`c`W]U`k`c`f`\_`U`g`U`d`f`c`Z`g`g]c`b`"M`c`i`k`]`X`Y`b`h]Z`m`U`b`X`Y`l`d`U]b`h`Y`Z`c`W`g`d`c`d`i`U`h]c`b`ž`Z]Y`X`c`f`d`f`U`W]W`ž`W`c`b`h`i`h`c`Z`  
d`f`U`W]W`ž`a`Y`h`c`X`g`c`Z`d`f`U`W]W`ž`h`Y`c`f`Y`h]W]U`b`X`Y`h]W]U`g`d`Y`W`g`c`Z`d`f`U`W]W`"M`c`i`k`]`U`d`d`m`h`Y`\_`b`c`k`Y`X[`Y`  
Z`c`a`h`g]W`c`i`f`g`Y`V`m`W]h]W]m`f`Y`Z`Y`W]b[`c`b`h`Y`U[`Y`b`W`m]b`f`Y`U`h]c`b`h`c`U`W]h]h]Y`g`i`b`X`Y`f`h`\_`Y`b`U`b`X`f`Y`g`c`i`f`W`g`  
Y`l`d`c`f`Y`X`i`f]b[`h`g]W`c`i`f`g`Y`"K`f]h`Y`b`Z`Y`X`V`U`W`\_`U`b`X`U`b`i`a`Y`f]W]U`a`U`f`\_`U`f`Y`d`f`c`j`]X`Y`X`h`k`c`k`Y`Y`\_`g`U`Z`Y`f`h`Y`  
g`i`Va`]g`g]c`b`X`i`Y`X`U`h`"

%`G`Y`W`h`U`5`i`g`h`f`U]U`b`h`i`a`U`b`g`Y`f`j`W`g`c`f[`U`b]g`U`h]c`b`h`c`f`Y`g`Y`U`f`W`"  
&`F`Y`U`X`h`Y`c`f[`U`b]g`U`h]c`b`g`k`Y`V`g]h`Y`U`b`X`a`c`g`h`f`Y`W`b`h`i`U`b`b`i`U`f`Y`d`c`f`h`U`g`k`Y`"U`g`d`Y`Y`f`Y`j`]Y`k`Y`X`  
]h`Y`f`U`h`f`Y`U`V`c`i`h`h`Y`Z]Y`X`c`f`W`c`b`h`i`h`c`Z`d`f`U`W]W`"  
'`B`Y`l`h`ž]g`h`b`h`c`U`d`c`X`W]g`h`ž`k`U`h`W`U`j`]X`Y`c`W]d`c`f`a`Y`Y`h`k`]h`U`g`c`W]U`k`c`f`\_`Y`f`X`Y`g`W]V]b[`U`b`X`  
X]g`W`g`g]b[`h`Y]f`k`c`f`\_`]b`h`Y`c`f[`U`b]g`U`h]c`b`m`c`i`U`f`Y`f`Y`g`Y`U`f`W]b[`ž`c`f`U`j`Y`f`m`g]a`]U`f`c`b`Y`"  
(" D`f`c`j`]X`Y`U`W`c`b`h`i`h`U`]g`Y`X`U`b`U`m`g]g`c`Z`d`f`U`W]W`'V`m`i`U`b`g`k`Y`f]b[`h`Y`e`i`Y`g`h]c`b`g`V`Y`c`k`.  
%`G`H`U`h`h`Y`b`U`a`Y`c`Z`h`Y`c`f[`U`b]g`U`h]c`b`"  
&`8`]g`W`g`g`h`Y`X]W`a`X`b`d`S`U`f]U`W]b`k`h]W`h`Y`c`f[`U`b]g`U`h]c`b`ž`b`W]h]c`b`g`f`l`\$\$'k`cf`X`g`Ł"  
'`I`g]b[`U`b`]b`h`f`g`Y`W]h]c`b`U`"Y`b`g`ž`X`Y`g`W]V`Y`h`Y`b`a`b`g`S`f]a`k`]h`k`h`c`a`h`Y`c`f[`U`b]g`U`h]c`b`k`c`f`\_`g`  
W`c`g`Y`m`K`h`U`h`U`f`Y`h`Y]f`b`Y`Y`X`g`U`b`X`]g`g`i`Y`g`U`b`X`k`h`U`h`d`f`c`X`i`W`g`h`Y`g`Y`b`Y`Y`X`g`U`b`X`]g`g`i`Y`g`3`  
f`l`\$\$'k`cf`X`g`Ł"  
(" 8`]g`W`g`g`U`f`Z`W`a`k`f`Z`S`f[`X`a`d`e`g`c`W]U`k`c`f`\_`d`f`U`W]W`]b`h`g]c`f[`U`b]g`U`h]c`b`f`l`\$\$'k`cf`X`g`Ł"  
)`8`Y`g`W]V`Y`U`\_`W`Z`a`V`a`X`e`a`U[S`h`i`a`d]b`d`S`U`f]U`W]i`h]g]Y`X`]b`h`Y`c`f[`U`b]g`U`h]c`b`f`l`\$\$'k`cf`X`g`Ł"

\*" 8]gW gg'fZdWW] Wk e] [æ'gcWU`k cf\_Yfg'k ]`i h]gY`jb`h.]g'cf[ Ub]gUh]cb`f) \$\$'k cfXgŁ"

+ " 8YgW]VY`S`Si`h.Uh]g`fY`Yj Ubh]c`h.Y`k cf`cZ`h.Y`cf[ Ub]gUh]cb`f) \$\$'k cfXgŁ"

, " 8YgW]VY`\ck`h.]g'cf[ Ub]gUh]cb`UXXfYggYg`Uh`YUgha` WaXfZWUadWhS`gWè`cZ`h.Y`gcWU`  
k cf`dfcZ`gg]cb`f) \$\$'k cfXgŁ"

- " 9I`d`U]b`k` \mnci`WkcgY`h.]g'cf[ Ub]gUh]cb`h`fYgYUfW`f&\$\$'k cfXgŁ"

## 5 HbXUbW F Yei JfYa Ybhg

DUfYfg\jdg'UbX'Wc'UVcfUfjcb'VYfk'YYb'gh'XYbhg'UbX'YXi'WUf'fg'UfY'dUfjW'Uf'm]a' dcfUfj]b'gc'WU'k'cf\_ 'YUfb]b[ "5g'k'Y'z'hc'a'U]bH]b'ci'f'UWVYX]Hf]cb'Ug'U'df'cj'XYf'c'Zgc'WU'k'cf\_'YXi'WUf]cbz]h]g]ja' dcfUfj]b]h'U'YUW'gh'XYbhZ]bXg'hYa'gY'j'Yg]b'Ub'Ybj]f'c'ba'Ybhk'\Yf'Y'h'Ym'UfY'UV'Y'hc'YI'dYf]YbW'U'Wc'bhYbh'hc'U'\][\ 'Yj'Y'c'ZXYd'h'UbX'Yb[U[Ya'Ybh':cf'h]g'fYUgcbz'UWf]Y'dUf]W'dUf]cb'UbX'Wc'a'a]h'a'Ybh'hc'U'h'YbXUbW'jg'YI'dYWVX'cZU'gh'XYbhg"

7ca'dUgg]cb'UbX'Wc'Wf'Zcf'gh'XYbhk'Y'ZUfY]g'k'\Uhk'Y'ghf]j'Y'Zcf]b'ci'f'df'cj]g]cb'c'Zgc'WU'k'cf\_ 'YXi'WUf]cb'UbX'h]g]g'YbUV'YX'Vm'k'c!k'Um'Wc'a'a'i'b]WUf]cb'"7ca'a'i'b]WUf]cb]g'YgdYWU'm]a' dcfUfj]b]h'k'\Yb'U'gh'XYbh]g'YI'dYf]YbW]b[ "YUfb]b[ 'VUff]Yfgz'dUf]W'Uf'm'h'c'g'Y'k'\]W'U'ZYZW'WUgg'U'h'YbXUbW'UbX'Wc'a'd'Yf]cb'cZ]bXYdYbXYbh'YUfb]b[ 'hUg\_g"

Hc'Ybgi'fY'h'Uhg]h'XYbh'YUfb]b[ 'UbX'k'Y'VY]b[ 'jg'U'h'h'Y'ZcfY'Z'cb'hc'ZU'XYW]g]cbg'a'UXYZ'k'Y'YbWc'i'fU[ 'Y'U'gh'XYbhg'hc'Wc'a'a'i'b]WUf]U'bm'VUff]Yf'hc'U'h'YbXUbW'hc'mei'f'Wc'i'fgY'Wc'bj'Ybcfz'Y'W'h'fY'cf'h'hc'f'Ug'gcc'b'Ug'dcgg]V'Yz'gc'U'Wc'UVcfUf]j'Y'd'Ub'W'b'VY'XYj'Y'cd'YX'hc'k'cf\_'Uf'ci'bX'h'YgY'VUff]Yf'g"

Z'mei'f'U'h'YbXUbW'jg'U'ZY'WVX'Zcf'U'ja]h'Y'X'dYf]c'X'c'Z]h'a'Yz'k'Y'k]f'Y'Zf'mei'hc'gY'WVYX'U'h'f'U'h'Y'Ug\_g'k'Y'\Uj'Y'WVY'U'h'X'hc'df'ca'c'h'mei'f'U'WV'gg'hc'j]h'U'Wc'bhYbh]b'h]g'Wc'i'fgY'"H'Y'gY'U'h'f'U'h]Y'hUg\_g'W'b'U'gc'VY'Wc'a'd'Y'h'X'Vm'gh'XYbhg'k'c'gY'U'h'YbXUbW'jg'YI'Ya'd'Uf'm'UbX'k'c'k]g'\hc'YI'h'YbX'h'Y]f'YUfb]b[ "K'Y'k]f'YI'dYW'h'mei'hc'hU\_Y'Z'f'Y'g'd'c'bg]V]h'm'UbX'b]h]U'h]j'Y'Zcf'Wc'a'd'Y'h]b[ 'h'Y'gY'U'h'f'U'h'Y'Ug\_g'UbX'hc'Ybgi'fY'h'U'h]b'Wc'a'd'Y'h]b[ 'h'Ya'mei'XYj'Y'cd'U'[cc'X'k'cf\_]b[ '\_bck'YX[ 'Y'c'Z'h'Y'Wc'bhY'bh'a]ggYX"

C'i'f'U]a]jg'hc'Z'gh'f'U'b'Ybj]f'c'ba'Ybhk'\Yf'Y'gh'XYbhg'ZY'Wc'a'Zcf'U'V'Y'Wc'a]b[ 'Zcf'U'f'X'f'Y[ 'U'f'X]b[ 'Wc'W'f'bg'UV'ci'h'h'Y]f'YUfb]b[ 'UbX'U'h'YbXUbW'"6UgYX'cb'YI'dYf]YbW'Z]Z'mei'f'U'h'YbXUbW'X'f'cd'g'VY'ck'U'W'f'U]b'Y'j'Y'j]h]g'i'b]\_Y'm'mei'k]f'U'j'Y'h'Y'g\_]g'UbX'\_bck'YX[ 'Y'hc'Y'ZY'W]j'Y'm'U'W]j'Y'h'Y'YUfb]b[ 'ci'hc'a'Yg'c'Z'h]g'Wc'i'fgY'/k'\]W'jg'k'\mk'Y'\][\ 'm'YbWc'i'fU[ 'Y'U'W]j'Y'U'h'YbXUbW'UbX'd'U'f]W'd'U'f]cb'"K]h'Y'ZY'W]j'Y'Wc'a'a'i'b]WUf]cb'UbX'd'U'bb]b[ 'k'Y'YbXYUj'ci'f'hc'U]c]X'g]h'U'h]cbg'k'\Yf'Y'gh'XYbhg'ZY'Wc'a'h'Y'm'U'j'Y'b'ch'UX'Ye'i'U'h'm'Yb[U[ 'YX'k]h'h'Y'Wc'i'fgY'Z'UbX'h'Y'f'Y'Zcf'Y'g'f'cb[ 'm'YbWc'i'fU[ 'Y'gh'XYbhg'hc'Wc'a'a'i'b]WUf]U'bm'Wc'W'f'bg'Ug'YU'f'm'Ug'dcgg]V'Y'"K'Y'k'U'bh'hc'U[ 'U]b'Ya'd'U'g]g'Y'h'Y'ja' dcfUf]bW'c'Z'Wc'UVcfUf]cb'UbX'Wc'a'a'i'b]WUf]cbz'UbX'U'W'\_bck'YX[ 'Y'h'Y'i'b]e]i'Y'W'f'W'a'g'h'U'W'g'gh'XYbhg'a'Um]Z]bX'h'Ya'gY'j'Yg'YI'dYf]YbW]b[ "

## 7ci fgY'GWX'YXi 'Y

[J\]Yk'WUgg'h'a'YhUV'Y](#)

H]a'YhUV'Y'

8U'h	HmdY	7cb'hY'bh
K'YY_'%'%' : YVfi'Ufm!'%' : YVfi'Ufm	C'b]bY'5W]j]hm	h'f'c'Xi'W'hc'i'fgY'Z  H\]g'cb]bY'U'W]j]h'm]k]f'VY'Uj]U]UV'Y'df]cf'hc'h'Y'VY[ ]bb]b[ 'c'Zk'YY_'%'UbX'b'Y'X'g'hc'VY'Wc'a'd'Y'h'X'Vm'h'Y'YbX'c'Zk'YY_'%'G'Y'Y'A'cc'X'Y'Zcf'a'c'f]b]Z'f'a'U'h]cb'
	@Y'W'h'fY	H'Y'd'f'c'Z'f'gg]cb'U'UbX'j'U'i'Yg'V'U'g'Y'c'Z'gc'W'U'k'cf_
	Hi'hc'f]U'	h'f'c'Xi'W]cb'hc'h'Y'Wc'i'fgY'UbX'Wc'bg]X'Y'f'U'h]cb'c'Z'X'Y'Z]b]h]cbg'c'Z'gc'W'U'k'cf_



K YY_&.&&: YVfi Ufm! '&*' : YVfi Ufm	@YWh fy	GcWU`k cf_`hYcfm`5b`cj Yfj JYk`
	Hi hcf]U`	A Udd]b[ `hY`_bck`YX[ Y`VUgY`cZgcWU`k cf_`dfUW]W
K YY_`' : '%A UfVX`!`)' A UfVX	@YWh fy	GcWU`K` cf_`J`U`i` Yg`UbX`9H.]Wg.`5Vcf][ ]bU`UbX`HcffYg`GfU]h`g`UbXYf`k`UgmcZ`_bck`]b[ `zVY]b[ `UbX`Xc]b[
	Hi hcf]U`	GcWU`K` cf_`J`U`i` Yg`UbX`9H.]Wg.`K` \]fYbYggz`Dfj]`JY[ Y`UbX`8YWc`cb]g]b[ `GcWU`K` cf_`
K YY_(`.;`' A UfVX`!`'%&` A UfVX	@YWh fy	DfUW]W`Z]Y`Xg`UbX`Wc`bH]I`hg`
	Hi hcf]U`	9I`Ua`]b]b[ `Z]Y`Xg`UbX`Wc`bH]I`hg`cZgcWU`k`cf_`dfUW]W`UbX`hY`gYWc`fg`]b`k` \]W`gcWU`k`cf_`Yfg`dfUW]W
K YY_`) : '%` A UfVX`!`'%-` A UfVX	@YWh fy	A`Yh`cXg`cZDfUW]W.`A`]Wc`UbX`A`UWc`@]j`Y`g`cZ`VX`Ub[`Y`  7`ci`bgY`~]b[ `z`7`UgYk`cf_`z`7`UgY`A`UbU[`Ya`Yb]z` ;`fci`dk`cf_`z`7`ca`a`i`b]mK`cf_`z`F`YgYUfVX`z`Dc`]W`h`UbX`GcWU`5Xj`cWUW`h`
	Hi hcf]U`	A`Yh`cXg`cZDfUW]W.`A`]Wc`UbX`A`UWc`@]j`Y`g`cZ`VX`Ub[`Y`  7`ci`bgY`~]b[ `z`7`UgYk`cf_`z`7`UgY`A`UbU[`Ya`Yb]z` ;`fci`dk`cf_`z`7`ca`a`i`b]mK`cf_`z`F`YgYUfVX`z`Dc`]W`h`UbX`GcWU`5Xj`cWUW`h`
	5ggYgga Ybh	5ggYgga Ybh%Xi`Y` :`f]XUm%+h`A`UfVX`
C`b`]bY`5W]j`]m		6Yhk`YYb`k`YY_g`)`!`+`mci`k`j`~`Uj`Y`hY`cddcfi`b]m]h`c`UW]j`Y`mYI`d`cfY`gcWU`k`cf_`a`Yh`cXg`cZdfUW]W`z`j`]U`cbY`cf`a`cfY`cZ`hY`z`c`ck`]b[ `UW]j`]f]Yg.`  f`@]ghY`b`h`c`bY`cf`a`cfY`cZ`hY` fYWc`a`a`YbXYX`dcXW]ghg`k`YfY`gcWU`k`cf_`Yfg`X]gW`gg`hY`j`f`dfUW]W`  f`@]ghY`b`h`c`bY`cf`Vch`cZ`hY`fYWc`fXYX`dfUW]W`X]gW`gg]cbg`dfcj`]XYX`  f`K`UhX`hY`fYWc`a`a`YbXYX`Z]a`g#dfUW]W`j`]XYcg`  f`J`]g]h]Ub`U[`YbW]h]UbX`hU`Y`bc]Yg`UVci`h]mci`f`YI`dYf]YbW`  8`cW`a`Ybhk`U`h]mci`U`j`Y`YUfbh]b`U`V`c[ `cZUh`YUgh`%\$`k`cfXg`z`UbX`U`gc`Wc`a`a`Ybhcb`Uh`YUgh`k`c`chYf`



		UbX'dfUWjW'UgdYWg'Zcf'h]g'k YY_"'
K YY_%. % '5df]'!'& 5df]`	@YWi fY	BYk 'ci fbYmg']b'gcWjU`k cf_
	Hi hc]U'	8Yj Y'cd]b[ 'U'dfUWjW'ZUa Yk cf_ž'hY']a dcfUUbVW'cZ gY'Z WjFYžW'bh]bi ]b[ 'hc''YUfb'UbX''cc_]b[ 'hc'hY Z h fY
	5ggYgga Ybh	5ggYgga Ybh&Xi Y'K YXbYgXUm&, h'5df]`

F Ygci fWg

Gi Va ]gg]cb`cZ5ggYgga YbhiHUg\_g

Hi fb]h]b`Gi Va ]gg]cb

Ʒmci`YbWci bHYf`U`dfcV`Ya`k`Yb`UH`Ya`dh]b[`hc`gi`Va`]hmc`i`f`Ugg][`ba`Ybhi`h`fci`[`\`Hi`fb]h]b`z`d`Y`UgY`  
HY`Yd`cbY`9I`HYfbU`Gi`ddcfhcb`-`,`)``%cf`Ya`Uj`h`Ya`cb`YI`HYfbU`HY`hgi`ddcfh4`i`bgk`"YXi`"Ui`"Gi`ddcfh`  
`ci`fg`UfY`,`.\$\$Ua`-`%\$.\$\$da`cb`k`YY`XUmg`UbX`-`.\$\$Ua`-`).\$\$da`cb`k`YY`YbXg`fI`\*)`XUmg`U`mY`UfI`Ʒmci`  
UfY`i`bUV`Y`hc`gi`Va`]hmc`i`f`Ugg][`ba`Ybhi`Xi`Y`hc`U`Zi`h`k`]h`Hi`fb]h]b`mci`a`UmUdd`m`Zc`f`Ub`YI`HYbg]cb`z`Vi`hmc`i`  
a`i`ghfY`hU]b`mci`f`h]W`Yhbi`a`VYf`Z`ca`9I`HYfbU`Gi`ddcfh`f`U`cb[`k`]h`Ubmc`h`Yf`fY`Yj`UbhXcW`a`Yb`hg`L`hc`  
]bWi`XY`Ug`Yj`]XYbVW`hc`gi`ddcfhmc`i`f`YI`HYbg]cb`Udd`]W]h]cb`Ʒmci`Ya`Uj`9I`HYfbU`Gi`ddcfhmc`i`k`j`  
Ui`hc`a`U]W]m`fYW]j`Y`U`h]W`Yhbi`a`VYf`z`Vi`h]Zmci`HY`Yd`cbY`mci`k`j`b`YYX`hc`gd`YW]W]m`Ug`\_`Zc`f`cbY`  
Hi`fb]h]b`U`gc`dfcj`]XYg`i`dXUH`g`cb`h`Y]f`gm`gh`Ya`g`hU`h`g`cb`Hk`]hYf`"

;`YbYfU`mz`UggYgga`YbhiUg\_g`a`i`ghVY`gi`Va`]hYX`Y`YW`fcb]W]m`j`]U`Y]h`Yf`Hi`fb]h]b`cf`U`A`ccX`Y`  
Ugg][`ba`Ybhi`h]b]bg`hU`bVW`g`k`YfY`h`g`]g`bchidcgg]V`Yz`]hk`j`VY`gh`UH`X`cb`mci`f`Wci`fgY`g`A`ccX`Y`g]h`k`]h`  
U`HYfbU]h]`Y`gi`Va`]gg]cb`XY`hU]`g`"

:`cf]b`Zc`fa`U]h]cb`cb`ck`hc`gi`Va`]hUgg][`ba`Yb`hg]cb]b`Y`j`]U`A`ccX`Y`.`h`hdg`#`gh`XYbhi`bgk`"YXi`"Ui`#`ck`!  
gi`Va`]hUgg][`ba`Yb`ha`ccX`Y`"

## 5 WUXYa ]W< cbYgmiUbX`D`U[ ]Uf]ga

D`U[ ]Uf]ga `]g`i`g]b[ `h`Y`k`cfXg`cf`]XYUg`cZc`h`Yfg`UbX`d`fYgYbh]b[ `h`Ya`Ug`mci`f`ck`b``#WUb`hU`\_`Y`a`Ubm`  
Zcfa`gZ`Zca`X`Y`]VYfU`h`V`X`Y`U`h]b[ `h`c`U`W`W`X`Y`b`h`U`m`i`W`c`d`m]b[ `Z`ca`U`g`ci`f`W`k`]h`ci`h`U`W`\_`b`c`k`Y`X[ `Ya`Y`b`h`

I`B`G`K` `[`f`ci`d`g`d`U[ ]Uf]ga `]b`h`c`h`Y`Z`c``c`k`]b[ `W`U`h`Y[ `c`f]Y`g.

7`c`d`m]b[ `.`i`g]b[ `h`Y`g`U`a`Y`c`f`j`Y`f`m`g]a`]U`f`k`c`f`X`g`h`c`h`Y`c`f][`]b`U`h`Y`h`c`f`]X`Y`U`k`]h`ci`h`U`W`\_`b`c`k`Y`X[ ]b[ `h`Y`

- i bXYfghUbx'mci f'f][ \hg'UbX'fYgdcbg]V] ]hYg'Ug'U'gh XYbhUhl BGK
- VY'Uk UfY'cZd'U[ ]Uf]ga ž'Wcdmf][ \hž' BGK 'Gh XYbh7cXY'cZ7cbXi W'Ubx'5Ww'dhUV'Y'I gY'cZ I BGK '⇒H'F Ygci fW'g'Dc`]Wm
- VY'Uk UfY'cZh'Y'ghUbxUfXg'cZVY\Uj ]ci f'YI dYW'X'cZYj Yfmcby`]b'h'Y'I BGK 'Wca a i b]m
- `cWJh'gYfj ]Wg'UbX' ]bZcfa Uhcb'UVci hl BGK 'UbX'I BGK '@VfUfm

Gca Y'cZh'YgY'UfYUg'k ]`VY'ZJa ]]Uf'hc'mci ž'ch'Yfg'k ]`VY'byk "; U]b]b[ 'U'gc`X'i bXYfghUbx]b[ 'cZU`h'Y fY'UH'X'UgdYW'g'cZ9@G9'k ]`Y'd'mci 'a U\_Y'h'Y'a cghcZmci f'gh X]Yg'Uhl BGK ""

[\hhd. #gj V'YWf i \]XYg" \]VfUfm'i bgk "YXi "Ui #` \]gY#UVci h' \]gY](#)

# 5 WUXYa ]W=Zcfa Uh]cb

: cf`YggYbh]U`gh XYbh]bZcfa Uh]cb`fY`UH]b[ `tc.

- fYei Ygth]Zcf`YI H`bg]cb/
- `UH`gi Va ]gg]cbg`[ i ]XY`]bYg/
- fYj ]Yk `cZa Uf\_g/
- I B GK `<YU`h`UbX`GUZY`mdc`]WYg/
- YI Ua ]bUH]cb`dfcW`Xi fYg/
- gdYW]U`W`bg]XYfUH]cb`]b`hY`Yj Ybhcz]`bYgg`cf`a ]gUXj Ybh fY/

