

A Ubb\Y]a .`BYi Y`HUb\_ghY``Y`Vf]b[ h  
i a k Y`hZfYi bX`]W\Yg`Gi dYf`9&\$`

A Ubb\Y]a `ZY]Yfh`X]Y`YfghY`Gi dYf`9&\$!HUb\_ghY``Y  
8Yi hgW\`UbXgž`X]Y`i a k Y`hZfYi bX`]W\YfYb`?fUZhgbc ZZ`a ]h  
6]cYh\Ubc``UbV]YhYh"



A Ubb\Y]a ž`8Yi hgW\`UbX`!`A Ub`a U[ `Yg`\_Ui a `Z0f`a 0[ `]W  
\U`hYbž`XcW\`X]Y`YfghY`HUb\_ghY``Y`8Yi hgW\`UbXgž`X]Y`Gi dYf`9&\$  
UbV]YhYhž`ghY`h`gY]h`C`\_hc`VYf`&\$&` `]b`A Ubb\Y]a ``C`V`k`c`\`g]W  
X]YgY`BYi`Yfi`b[ `bcW`]a` [ `YgW\`cggYbYb`:``chYbhYgh`VY`Z]bXYhž  
\_0bbhY`g]Y`K`Y[ `VYfY]hYf`Y]bYg`i a k Y`hZfYi bX`]W\YfYb`?fUZhgbc`ZZg  
gY]b``8Yf`5857`\YVh`\Yfj`cfž`XUgg`Gi dYf`9&\$`a ]h`V]g`ni`&\$  
Dfc`nYbh`i6]cYh\Ubc`!6Y]a ]gW\i b[ `HfY]V\Ui`g[ `UgYa ]gg]cbYb  
XYi`h]W`gYb`\_Yb`gc````8Yf`5857`HYW\b]\_df`Äg]XYbh`?`UfghYb  
GW\i`nY`ghY``h`ZYghž`XUgg`Y]bY`\0\YfY`6Y]a ]gW\i b[ `gei`chY`X]Y  
9]bgdUfd`chYbn]U`Y`bcW\`k`Y]hYf`ghY][`Yfb`\_0bbhY"

⇒`J`Yf[ `Y]W`ni` \Yf`0a`a`]W`Ya`6Ybn]bž`k`]Y`XYa`Gi dYf`9) ži`bX  
Ui`W`XYa`VYfY]hg`Y]b[ `YZ0\`fhYb`Gi dYf`9%\$ž`j`Yfgdf]W`h`Gi dYf`9&\$ž

X]Y`7C !9a ]gg]cbYb`g][ b]Z\_Ubh`ni`fYXi`n]YfYb" `@Ui`h`XYa`5857  
k`YfXYb`Xi`fW`X]Y`Bi`hni`b[ `j`cb`9%\$`gW`cb`\`Yi`hY`V]g`ni`XfY]  
A`j`]cbYb`Hcb`bYb`7C` `A`f`]W`Y]b[`YgdUfh`z`k`A`fYbX`9&\$`gc[`Uf  
ni`g`A`h`]W`Y`%)`Dfc`nYb`h`9]bgdUfi`b[`Yb`]a` `J`Yf[ `Y]W`ni`Zcgg]`Ya  
6Ybn]b`j`Yfgdf]W`h`8Yf`5bV]YhYf`7fcd9bYf[ `]Yg`z`Y]b`J`c`ffY]hYf`]b  
XYf`bUW`\`U`h][`Yb`9h`Ubc`d`fc`Xi`\_`h]cb`z`VY`]Y`ZY`fh`X]Y`Y`fghY  
HUb`\_ghY`Y`a`]h]`\`fYa` `Dfc`Xi`\_`h`z`XUg`Ui`W`U`g` `Gi`dYf`9W`&\$  
VY`\_Ubb`h]gh"

## K`Ug`ghY`W`\_`h`\`]b`hYf`Gi`dYf`9&\$3

Gi`dYf`9&\$`k`]fX`a`]h]`]Y`GdUbbi`b[ `Yfk`UfhYh`z`XYb`bc`W`]gh`X]Y  
Bi`hni`b[ `X]YfnY]h`bi`f`Z0f`Ui`g[`Yk`A`\`hY`:`U`fnYi`[`Y`ni`[`Y`UggYb" `8Yf  
:`f]gW`]b[ `Ui`ZXYa` `?`fUZhgc`Za`Uf`\_`h]gh`bc`W`b]W`h[ `Ybcfa`h`c`XYf  
c`Z]n]Y`ni`[`Y`UggYb`Z0f`GYf]Yb`ZU`fnYi`[`Y`8YfnY]h`hY`ghY`h`X]Y  
G0Xni`W`\_Yf`5;`XYb`?`fUZhgc`Z`a`]h`Y`hk`U`,) `:`U`fnYi`[`Yb`z`i`a  
g]W`Yfni`ghY`Yb`z`XUgg`Yf`]a`5`h`U[ `d`fc`V`Ya` `c`g`Y]b[ `YgY`h`h`k`YfXYb  
\_Ubb" `h`hYfY`ggU`b`hY`fk`Y]gY`\`U`h`7`fcd9bYf[ `]Yg`VYfY]hg`Y]b`Y  
I`b`VY`XYb`\_]W`\_Y]hg`VY`g`W`Y]b][`i`b[ `j`cb`J`K` `Yf`\`U`hYb`z`X]Y`XYb  
9]bgUhn`j`cb`9&\$`]b`Y]b][`Yb`9f`d`fc`Vi`b[ `g`ZU`fnYi`[`Yb`VY`gh`A`h][`h"

8]Y`8]g`\_i`gg]cb`fi`b`X`i`a` `Gi`dYf`9&\$`]gh`b]W`h`b`Yi`/`XYf`5857`gY`h`h  
g]W`VYfY]hg`gY]h`&\$&\$`Z0f`X]Y`9]b`Z0`fi`b[ `X]Y`gY`g[ `f0b`Yb  
?`fUZhgc`Zg`Y]b" `?`Ui`a` `j`Yfk`i`b`XYf`]W`z`XUgg`X]Y`5i`hc`\`Y`fghY`Y`f  
[`Y`Zc`f`XY`fh`g]b`X`z`]\`fY`:`U`fnYi`[`Z`c`h`Y`b`Z0f`XYb`9&\$!9]bgUhn  
ZfY]ni`[`Y`VYb" `5`\_`hi`Y`k`]fX`[`Y`g`W`A`h`h`z`XUgg`V]g`ni` `) `\$`Dfc`nYb`h`XYf  
]b`8Yi`hg`W`U`b`X`c`d`Yf]Y`fY`b`XYb`C`h`c`a` `c`h`c`fYb`9&\$`j`Y`f`h`U[ `Yb  
\_0b`b`hYb`z`k`Ug`XUg`D`c`h`Y`bn]U`Z0f`Y]b`Y`V`fY]hY`9]b`Z0`fi`b[ `Y`bc`fa  
Yf`\`0`h"

## K`]Y`[`f0b`]gh`9&\$`k`]f`\_]W`3

9]b`6`]W`\_]b`X]Y`K`Y`h`XY`g`6]c`Y`h`Ubc`g`nY][`h`Y]b][`Y`gdUbbYbXY  
5gdY`\_hY" `9h`Ubc`z`c`Zi`Ui`g`b`UW`k`UW`gYbXYb`F`c`\`ghc`ZY`b`k`]Y  
Ni`W`\_Y`ff0VYb`c`XYf`;`Y`h`fY]X]Y`[`Yk`c`b`b`Yb`z`\_Ubb`X]Y  
HfY]V`\`Ui`g[ `UgYa`]gg]cbYb`Yf`YV`]W`fYXi`n]YfYb" `8]Y`h`hY[ `fU]cb  
j`cb`6]c`Y`h`Ubc`]b`6Ybn]b`Z0`fhY`]a` `J`\`f`&\$&` `ni` `Y]b`Yf  
9]bgdUfi`b[ `j`cb`fi`b`X`) `\*`z` `A`j`]cbYb`Hcb`bYb`7C`!`Yei`]j`U`Y`b`hYb`

XUg`Ybhgdf]W.h`XYf`Å\`f]W`Yb`9a` ]gg]cb`j`cb`ØVYf`%&`A` ]``]cbYb`  
5i`hc`g`°

8]Y`J`c`fhY`]Y`g]bX`gck`c`\`i`a`k`Y`hdc`h]gW`U`g`Ui`W`k` ]fhgW`UZh`]W`  
ni`Yf`\_Y`bbYb`"9h\Ubc`"gh`b]W`h`bi`f`i`b`[ ]Zh][`i`bX`V]c`c`[ ]gW`  
UVVUi`VUfž`gcbXYfb`k` ]f`\_h]g]W`U`i`W`d`cg]h]j`U`i`Z`X]Y`Å`bX`]W`Y`  
K` ]fhgW`UZh`U`i`g`"Gc`V]Y`h`Y`h`X]Y`9h\Ubc`d`fc`Xi`\_`h]cb`XYb`@`Ub`Xk` ]fhY`b`  
Y]b`Y`j`Yf`Å`gg`]W`Y`9]b`\_`ca`a`Y`b`gei`Y`Y`"Hf`c`h`n`X`Y`a`i`[ ]V`h`Y`g`U`i`W`  
<Yf`Ui`g`Zc`f`X`Y`fi`b`[`Y`b`8`Y`f`5`b`V`U`i`j`cb`D`Z`U`b`n`Y`b`Z`Ø`f`6]c`Y`h\`U`bc`"\`U`h`  
g`Y]b`Y`G`W`U`h`Y`b`g`Y]h`Y`b`ž`Y`h`k`U`X]Y`d`c`h`Y`b`n]Y`Y`b`b`Y`[`U`h]j`Y`b`  
l`a`k`Y`h`U`i`g`k` ]f`\_`i`b`[`Y`b`i`b`X`X`Y`b`K`Y`h`V`Y`k`Y`f`V`n`k` ]g`W`Y`b`  
B`U`l`fi`b`[`g`a` ]h`h`Y`!`i`b`X`?`f`U`Z`h`g`h`c`Z`d`f`c`Xi`\_`h]cb`ž`X`Y`f`X]Y`  
B`U`l`fi`b`[`g`a` ]h`h`Y`d`f`Y]g`Y`g`h`Y][`Y`b`"U`gg`Y`b`\_`U`bb`"

8Yf`5`8`5`7`i`b`X`j` ]Y`Y`6`Y`Z`Ø`f`k`c`fhY`f`\`c`Z`Z`Y`b`Y`X`c`W`ž`X`U`gg`a` ]h`Gi`d`Y`f`  
9`&`\$`Y`]b`b`Y`i`Y`f`ž`i`a`k`Y`h`Z`f`Y`i`b`X`]W`Y`f`K`Y`[`Y`]b`[`Y`g`W`U`[`Y`b`k` ]f`X`"  
Gc`h`Y`X`Y`f`D`f`Y]g`]a`6`Y`f`Y]W`j`cb`Gi`d`Y`f`9`%`\$`"Y`[`Y`b`i`b`X`9`&`\$`  
k`Y]h`Y`f`]\`b`c`\`b`Y`7`C`!`6`Y`d`f`Y]gi`b`[`U`i`g`\_`ca`a`Y`b`ž`\_`Ø`b`b`h`Y`X`Y`f`b`Y`i`Y`  
?`f`U`Z`h`g`h`c`Z`Z`ni`Y`]b`Y`f`U`h`f`U`\_`h]j`Y`b`5`h`Y`f`b`U`h]j`Y`Z`Ø`f`X]Y`5`i`hc`Z`U`l`f`Y`f`  
k`Y`f`X`Y`b`"

9g`V`Y`]V`h`gd`U`bb`Y`b`X`ni`V`Y`c`V`U`W`h`Y`b`ž`c`V`Gi`d`Y`f`9`&`\$`g]W`  
Xi`f`W`g`Y`h`n`Y`b`\_`U`bb`i`b`X`k`Y`W`Y`k`Y`h`Y`f`Y`b`G`W`f]h`h`Y`]a`?`U`a`d`Z`[`Y`[`Y`b`  
X`Y`b`?`]a`U`k`U`b`X`Y`b`Ø`h][`g]b`X`"9]b`[`i`h`Y`g`<`Å`b`X`W`Y`b`V`Y]a`i`U`l`f`Y`b`  
i`b`X`H`U`b`\_`Y`b`k` ]f`X`]b`Ni`\_`i`b`Z`h`g]W`Y`f`]W`k` ]W`h][`Y`f`X`Y`b`b`Y`°

8YhU]`g	
C`f`h`	A`U`bb`\`Y]a`ž`8`Y`i`h`g`W`U`b`X`
E`i`Y`Y`b`	<ul style="list-style-type: none"><li>• k`k`k`"U`X`U`W`X`Y`</li><li>• k`k`k`"U`i`h`c`!`a`c`h`c`f`!`i`b`X`!`g`d`c`f`h`"X`Y`</li><li>• g][`a`U`Y`U`f`h`\`"W`c`a`</li></ul>

6Ygi`W`Y`b`G]Y`i`b`g`U`i`Z`b`U`[`!`V`k`"X`Y`