

K Ufi a `k ]f`XUg`6YcVUW\hYb`j cb`K U`Yb`]b  
A ]f]ggUž`Gf]`@Ub\_Už`VYfYi Yb

K U`VYcVUW\hi b[ `]b`A ]f]ggU`k ]fX`U`g`Y]b`A i gg`Ub[ Ydf]YgYbž  
UVYf`[ YfY]nhY`Hci f]ghYbž`ØVYfZØ`hY`6cc`hY`i bX`i bYh\]gW\Y  
DfU\_h]\_Yb`gcf[ Yb`ZØf`Y]b`ni h]YZgh`VYi bfi `\[ YbXYg`9f`YVb]g  
I bgYf`YfghYf` : Y\`Yf`k Ufž`XYa ` < mdY`bUW\ni [ YVYb``Gf]`@Ub\_U  
[ `]h`U`g`XUg`Y]bn][ Y`@UbX`XYf`K Y`hž]b`XYa `G]Y`XUg`[ fØ» hY  
@UbXgÄi [ Yh]Yf`fXYb`9`YZUb`hYb`E`i bX`XUg`[ fØ» hY  
K UggYfgÄi [ Yh]Yf`fXYb`6`Ui k U`E`g`Y\Yb`\_ÖbbYb``8U\Yf`  
\UVYb`k ]f`X]Y`K U`VYcVUW\hi b[ `]b`A ]f]ggU`ni `Y]bYf`Df]cf]hÄh  
[ Ya UW\h``I bgYf`nk Y]hYf` : Y\`Yf`VYghUbX`XUf]bž`Y]bY``c`\_U`Y`  
9a dZY`\`i b[ `UbghY``Y`i bgYfYg`Gf]`@Ub\_U`F`Y]gYZØ\`fYfg`ni  
j Yfk YbXYb` ``i bX`gc`ZUbXYb`k ]f`i bg`i a `+`I \f`a cf[ Ybg`]a  
< UZYb`j cb`A ]f]ggU`k ]YXYfž`k c`k ]f`a ]h, \$`UbXYfYb  
/ Ua d^Y``d/

K U`VYcVUW\hi b[ `]b`A ]f]ggU`k ]fX`U`g`Y]b`A i gg`Ub[ Ydf]YgYbž`UVYf  
[ YfY]nhY`Hci f]ghYbž`ØVYfZØ`hY`6cc`hY`i bX`i bYh\]gW\Y`DfU\_h]\_Yb  
gcf[ Yb`ZØf`Y]b`ni h]YZgh`VYi bfi `\[ YbXYg`9f`YVb]g

I bgYf`YfghYf` : Y\`Yf`k Ufž`XYa ` < mdY`bUW\ni [ YVYb``Gf]`@Ub\_U`[ `]h  
U`g`XUg`Y]bn][ Y`@UbX`XYf`K Y`hž]b`XYa `G]Y`XUg`[ fØ» hY  
@UbXgÄi [ Yh]Yf`fXYb`9`YZUb`hYb`E`i bX`XUg`[ fØ» hY`K UggYfgÄi [ Yh]Yf  
fXYb`6`Ui k U`E`g`Y\Yb`\_ÖbbYb``8U\Yf`\UVYb`k ]f`X]Y  
K U`VYcVUW\hi b[ `]b`A ]f]ggU`ni `Y]bYf`Df]cf]hÄh[ Ya UW\h``

I bgYf`nk Y]hYf` : Y\`Yf`VYghUbX`XUf]bž`Y]bY``c`\_U`Y`9a dZY`\`i b[  
UbghY``Y`i bgYfYg`Gf]`@Ub\_U`F`Y]gYZØ\`fYfg`ni `j Yfk YbXYb` ``i bX`gc  
ZUbXYb`k ]f`i bg`i a `+`I \f`a cf[ Ybg`]a ` < UZYb`j cb`A ]f]ggU`k ]YXYfž`  
k c`k ]f`a ]h, \$`UbXYfYb`@Yi hYb`Ui ZY]b`nk Y]ghÖW\_] [ Yg`6cc`h  
[ Yhf]YVYb`k i fXYb``

K ]f`Y [ hYb`i bgYfY`GW\i \Y`]b`X]Y` [ Ya Y]bgUa Y

5i ZVYk U\fi b[ gVcl i bX[ ]b[ Yb j cfg]W h][ bUW\cVYb"K ]f ZUbXYb  
nk Y]ZFY]Y'G]hnY\ ]bhYb i bX'nc[ Yb i bgYfY'GWk ]a a k YghYb Ubž  
k A\fybX'k ]f VYghØfnh VYcVUW hYhYbž'k ]Y ]a a Yf'a Y\ f'A YbgWYb  
a ]h'f]Yg][ Yb'CVY\_h]j Yb i bX'GY`Z]Y!Gh]W\_g]a 'GW\YddhUi 'Ui Z'XUg  
6cchighfÒa hYb"

'U`h1 ?]U!K U`VYcVUW hi b[ ]b'A ]f]ggU 2 5hUg/ '6cchg?'U'k Uf'j cb  
i bgYfYa ' [ YgW\ÀZh][ Yb'6cch]b'A ]f]ggU'k Yb][ Yf'U`g'VYY]bXfi W\_h

C\_Umž'gU[ hY ]W\ 'a ]f"GY]\_Y]b'HfchhY`"B UW\XYa ' ]W\ 'a Y\ fYfY  
K ]Xh]YfYf'YVb]ggY ]b'j ]Y`\_`Y]bYfYa 'A U» ghUV' [ YbcggYb'\UhhY'fh"  
6"GWk ]a a Yb'a ]h'K U`Yb' ]b'Hcb[ Už'HUi W\Yb'a ]h'<U]Yb'Ui Z  
; U`½dU[ cgłž\UhhY ]W\cZZYbg]W h]W\ j Yf[ YggYbž'k ]Y'k Yb][ Yf  
5bgdfi W\gj c`Y'fY]gYb" fW\ 'k Y]» ž]W\ 'k Y]» ž]W\ 'V]b'Y]b'×]ch"Ł

⇒W`Y[ hY'a Y]bYb'GbcV]ga i g'VY]gY]hY' i bX'a UW\hY'a ]W\ VYfY]h'ZØf  
X]Y': U\fh' 'k ]Y'<i bXYfhY'UbXYfY'Ui W"GY\Yb'G]Yž i bgYf'6cch  
k Uf'Y]bYg'j cb'Yhk U'&\$'6cchYbž'X]Y'Ub'X]YgYa 'A cf[ Yb`cgZ \fybž  
'YXYg'V]g'ni a '6YfghYb'j c`a ]h'Hci f]ghYb"K ]f'a UW\Yb' i bg'Ui Z'X]Y  
»U[ X'bUW\ '6Yi hYž i bgYf', VYfUb[ YVch'Ub'GW\]ZYb' [ `Y]W\hY]bYf  
5fa UXU"

8 fY]» ][ 'A ]bi hYb'gdÀhYf'nY][ hY'XYf'? Ud]hÀb'fcXYf'Yg'\ÀhY'Ui W\  
X]Y'7fYk 'gY]b'\_ØbbYb'/g]Y'hfi [ Yb'U`Y'H!G\]fhg'a ]h'XYf'5i ZgW\ f]Zh  
7 Ud hU]b Ł'Ui ZY]b'DUuf'GW\]'X\_fØhYb"8 ]Y'DUggU[ ]YfY'ghUa dZhYb  
bUW\ 'GhYi YfVcfX' ]b'XYa 'j Yfnk Y]ZY`hYb'J Yfgi W\ž'D'Uhn'ni  
bY\ a Yb"

'U`h1 GW\]'X\_fØhYb'Ui Zi bgYfYf'F Y]gY'K U`VYcVUW hi b[ ]b  
A ]f]ggU 2 5hUg/ '6cchg'8 ]YgYg'GW\]'X\_fØhYbdUuf'j Yfi fgUW\hY  
Y]bYb'5bghi fa 'Ui Z'XYa '6cch

?i fnY'NY]h'gdÀhYf'VY[ Y[ bYhYb'k ]f'Y]bYf'YbhnØW\_YbXYb'; fi ddY  
8Y`Z]bY"8 ]Y'; Ya ØhYf'YbhnØbXYhYb'g]W\ž'U`g'X]Y'9`Vc[ Yb'gh]Y» Yb  
i bX'GY`Z]Y!Gh]W\_g'Xi fW\ 'X]Y`\_Y]bghY '@ØW\_Y'gW\cggYb" B UhØf'W\  
k UfYb'k ]f'U`Y'ni 'dUgg] !U[ [ fYgg] ž i a 'k ]f\_]W\ 'Yhk Ug  
a ]hY]bUbXYf'ni 'gU[ Yb"

U`h1 8Y`Z]bY`Ui Zi bgYfYf`K U`VYcVUW`hi b[ ghci f`]b  
A ]f]ggU 2 5h`Ug/ `6cchg`8Y`Z]bY`gd]Y`Yb`]b`XYb`; Yk`AggYfb`] cf  
A ]f]ggU

5`g`X]Y`K U`Y`Ui ZhUi W`hYb`fi b[ YZ`A`f`Y]bY`Ghi bXY`gd`hYf`l`z`k Uf`X]Y  
GdUbbi b[ `]b`XYf`@` Zh`Ub[ YgdUbbh`"; Y`O`fhY`a ]f`XYf`D`Uhn`Ub`XYf`  
F`Y`]b[ `z`k`Y`]W`X`Ub`Y`V`Y`b`g`U» 3`K` Ug`z`k`Y`bb`X]Y`K` U`Y`Ui` Z`X`Y`f`U`b`X`Y`f`Y`b`G`Y`h`Y`  
Ui` ZhUi` W`h`Y`b`3`K` Ug`z`k`Y`bb`Y`f`Y`]b[ `i`h`Y`g`:` chc`[` Ya` U`W`h`h`U`hi` b`X`]W`  
b]W`h`3`8]Y`g`k` U`f`Y`b`Y`]b`X`Y`i`h][`X]Y`:` fU[` Y`b`z`X]Y`X]Y`A` Y`bg`W`Y`b`  
V`Y`g`W`A`Zh][` h`Y`b`"

5`g`X`Y`f`Y`f`ghY`K` U`Ui` ZhUi` W`h`Y`z`X`f`Ø`W`h`Y`b`i` b`X`g`W`i` V`gh`Y`b`X]Y`  
DUggU[ ]Y`f`Y`z`i` a`Y`]b`Y`b`[ `i`h`Y`b`6`]W`\_`ni` V`Y`\_`ca` a` Y`b`"@Y]X`Y`f`k` U`f`Y`b`  
Y]b][` Y`k`Y`b][` Y`f`U`g`V`Y`Y]b`X`fi` W`\_`h`"K` ]f`g`U`Y`b`K` U`Y`f`Y]b`G`W`k` U`bn`z`  
X`Y`f`Ui` g`X`Y`a`K` U`gg`Y`f`h`Ui` W`h`Y`z`Y`]b`Y`K` ]f`V`Y`g`A`i`Y`z`X]Y`h`b]b`i` b`X`  
Y`f`Ui` g[ `]h`l`z`U`V`Y`f`k` ]f`A` Ø`W`h`Y[` Y`fb!5`h`h`Y`b`V`c`f`ci` [ `g`k`i` f`X`Y`b`j`cb`  
D`U`b`Y`h`9`U`f`h`i` b`X`;` cc[ `Y`-a` U[` Y`g`U`b[` Y`hf]Y`V`Y`b`/k` ]f`U`h`h`Y`b`  
j`Y`f`X`U`a` a`h`bc`W`a` U`a` Y`f`Y`f`k` U`f`h`Y`h`"

U`h1 9]b`K` U`hUi` W`h`Ui` Zi` bgYfYf`K` U`VYcVUW`hi` b[` ghci` f`]b`  
A ]f]ggU 2 5h`Ug/ `6cchg`K` U`VYcVUW`hi` b[ `]b`A ]f]ggU

=a` 9fbghz`X]Y`K` U`Y`k` U`f`Y`b`b`U`h`Ø`f`]W`a` U`Y`gh`A`h]g`W`z`U`V`Y`f`Y`g`k` U`f`  
g`W`k` ]Y`f][` z`X`U`g`9`f`Y`V`b]g`ni` [` Y`b]Y»`Y`b`z`b]W`h`bi` f`z`k`Y`]X`U`g`6`c`c`h`  
Ø`V`Y`f`ZØ`h`k` U`f`z`g`c`b`X`Y`f`b`Ui` W`z`k`Y`]X]Y`K` U`Y`Ui` W`Ø`V`Y`f`ZØ`h`k` U`f`Y`b`  
8]Y`a` Y]g`h`Y`b`K` U`V`Y`c`V`U`W`h`i` b[` gi` b`h`Y`f`b`Y`a` Y`b`]b`A ]f]ggU`V`Y`Z`c`[` Y`b`  
]b`h`Y`f`b`U`h]c`b`U`Y`F` ]W`h`]b]Y`b`ZØ`f`X]Y`5`b`b`A`Y`fi` b[ `U`b`X]Y`G`A`i` [` Y`h]Y`f`Y`z`  
U`V`Y`f`X]Y`g`W` ]Y`f`Y`A` Y`b[` Y`U`b`6`c`c`h`Y`b`]g`h`Y]b`Z`U`W`i` b`b`U`h`Ø`f`]W`"

U`h1 9]b`Y`g`X`Y`f`j` ]Y`Y`b`6`c`c`h`Y`ni` f`K` U`VYcVUW`hi` b[ `]b`  
A ]f]ggU 2 5h`Ug/ `6cchg`9]b`Y`g`X`Y`f`k` Y`b][` Y`f`Ø`V`Y`f`ZØ`h`Y`b`6`c`c`h`Y`ni` f`  
K` U`VYcVUW`hi` b[ `]b`A ]f]ggU

=[` Y`b`X`k` U`b`b`g`W`Ui` h`Y`]W`a` ]W`i` a`i` b`X`n`A`h`Y`%+`6`c`c`h`Y`z`X]Y`X`Y`b`  
Y]b`Y`b`K` U`U[` h`Y`b`"9`g`[` U`V`Y]b`Z`U`W`\_`Y]b`Y`F`Y`W`h`Z`Y`f`h][` i` b[ `X`U`ZØ`f`z`  
X`U`g`g`k` ]f`X`c`f`h`k` U`f`Y`b`"=W`V`Y`n`k`Y]Z`Y`b]W`h`z`X`U`g`g`\_`Y]b`Y`f`Y`6`c`c`h`Y`i` b`X`  
[` Y`k` ]g`g`Y`b`U`Z`h`Y`f`Y`6`Y`h`f`Y]V`Y`f`Y]b`Y`b`V`Y`g`g`Y`f`Y`b`G`Y`f`j` ]W`V]Y`h`Y`b`z`U`V`Y`f`

g]Y`hfU[ Yb`]a a Yf`bcW`ni f` , VYfZ0`i b[ `VY]"

9g`Yf]bbYfhY`a ]W`k ]YXYf`Y]ba U`Ub`X]Y`J cfhY]`Y`j cb  
Hci f]ga i g\_UddYb"K U`VYcVUW`hi b[ `]b`A ]f]ggU`\_Ubb`Y]bY`?fUZh  
Z0f`XUg` ; i hY`gY]b/Yg`\_Ubb`6`]Xi b[ `i bX`BUhi fgW`i hm`Z0fXYfb`i bX  
bUW` \U`h][ `ni f`c`\_U`Yb`K ]fhgW`UZh`VY]hfU[ Yb` `UVYf`bi f`zk Ybb`Yg  
a cXYf]Yfhi bX`fY[ i `]Yfh`k ]fX"

I bg`k i fXY` [ YgU[ h`XUgg`X]Y`gf]`Ub\_]gW`Y`?0ghYbk UW`Y`]\fY  
5bghfYb[ i b[ Yb`VY]`XYf` , VYfk UW`i b[ `XYf`K U`VYcVUW`hi b[ `]b  
A ]f]ggU`j Yfgh`A`f`\_h`\Uh`zi a `X]Y`J c f g W`f]ZhYb`ni f`6YcVUW`hi b[ ž  
FY[ i `]Yfi b[ `i bX`?cbhfc``Y`j cb`A YYfYgg`Ai [ Yfb  
Ui ZfYW`hni Yf`U`hYb`ž`X]Y`X]Y`Y]bni \U`hYbXYb`5Vgh`AbXYž  
5bb`A`Yfi b[ ga Yh`cXYb`i bX`a Ul ]a U`Yb`6cchg[ YgW`k ]bX][ `\_Y]hYb  
ZYgh`Y[ Yb`ž`i a `g]W`Yfni ghY``Yb`ž`XUgg`X]Y`8Yf`bUh0f`]W`Y  
@VYVbgfUi a `XYf`K U`Y`k ]fX`b]W`h[ Ygh0fh"

`U`h1 9]b`K U`hUi W`h]bg`K UggYf 2 5h`Ug/ `6cchg`9]b`K U`hUi W`h  
]bg`K UggYf

@Y]XYf`\_Ubb`a Y]b`ni [ Y[ YVYbYfa U»Yb`i b[ YgW`i `hYg`5i [ Y`b]W`h  
gY`Yb`ž`k ]Y`k ]f`X]Y`K U`Y`b]W`h`gh0fYb"6Y]`gc`j ]Y`Yb`6cchYb`  
`YXYg`a ]h`j c``Yf`HfU[ Z`A`][ `\_Y]h` `X]Y`h`A[ `]W`ni gUa a Yb`Ui ZYb`ž  
\_Ubb`]W`b]W`h[ `Ui VYb`ž`XUgg`X]Y`K U`Y`XUg`9]bXf]b[ Yb  
[ `0W\_]W`Yfk Y]gY`b]W`h`VYa Yf`\_Yb"

5bghY``Y`ghfYb[ YfYf`?cbhfc``Yb`\_0bbYb`Hci f]ghYb`X]Y`6Y`Ughi b[  
Ui ZX]fY`\_hYfY`K Y]gY``]bXYfb. `]bXYa `g]Y`]b`A ]f]ggU`Ui Z  
K U`VYcVUW`hi b[ `j Yfn]W`hYb"9]b`XYi h`]W`Yf`F 0W\_[ Ub[ `XYg  
Hci f]ga i g`k `A`fY`Y]b`\_`UfYg`G][ bU`Ub`X]Y`6Y`0fXYb. `FY[ i `]YfYb  
cXYf`X]Y`Hci f]ghYbXc``Uf`j Yf`]YfYb"K Ybb`g]W`XUg`bUW`  
@0gY[ Y`XnU`i b[ `Ub`\0fh`ž`XUbb`]gh`XUg`Ui W`VYUVg]W`h][ h"K ]Y  
XYhU]``]Yfh]b`XYf`K Y`h`b]W`h`VYggYf`k ]fX`ž`]gh`X]Y`5fhYbj ]Y`ZU`h  
[ f0»Yf`U`g`k ]f"

`U`h1 8Yf`bU`Y`[ Y`Y[ YbY`?c[ [ U`U!GYY`]gh`Y]bY`\Yfj cffU[ YbXY  
5`hYfbUh]j Y`ni `A ]f]ggU 2 5h`Ug/ `6cchg`8Yf`bU`Y`[ Y`Y[ YbY  
?c[ [ U`U!GYY`]gh`Y]bY`\Yfj cffU[ YbXY`5`hYfbUh]j Y`ni `A ]f]ggU

K Ybb`G]Y`XUg`@UbX`Y]bZUW`b]W`h]j Yf`UggYb`\_`ObbYbž`c`bY`K U`Y  
ni`VYcVUW`hYbž`Yb`hgW`Y]XYb`G]Y`g]W`ghUhhXYggYb`ZØf`  
Hf]bW`a U`YY`Ub`XYf`C`gh\_ØghY`"8]YgYf`fY`Uh]j`fi`\\[ Y`HY]`XYg`  
@UbXYg`\\Uh`Ui`g[ YnY]W`bYhY`5i`gZØ[ Yž`X]Y`bcW`b]W`h`Ui`hghUf`\_  
a`j]hXYa`gdYn]Z]gW`Yb`N]Y`Ub[ Ydf]YgYb`k`YfXYbž`b]W`h]b`A`]f]ggU`  
UVni`V]Y[ Yb`ž`k`]fX`i`bg[ YgU[ h`C`f[ Ub]g]YfYb`G]Y`Y]bY`F`Y]gY`Xi`fW`  
Hf]bW`c`6`i`"

K Ug[ ]Vh`Yg`ZØf`A`]f]ggU`bcW`ni`hi`bž`Ui`»`Yf`K U`Y`ni`VYcVUW`hYb`3`  
Bi`bž`Y][ Ybh]W`b]W`hg`"K`]f`Ya`dZ`\\`Yb`ghUhhXYggYbž`]bg`b`U`Y`  
[ Y`Y[ YbY`?`c[ [ U`U`ni`ZU`fYb`"9g[ ]Vh`\_Y]bY`K U`Yž`UVYf`Yg`\\Uh`  
Y]bYb`a U`Yf]gW`Yb`GhfUbX`i`bX`V]YhYh`Y]bYb`Ui`g[ YnY]W`bYhYb`  
5i`g[ Ub[ gdi`b`\_hž`i`a`XUg`i`B`9G7C`!K`Y`h`\_i`hi`fYfVY`; U`Y`:`cfh`  
gck]Y`XYb`?`c[ [ U`U`!GYY`ni`VYgi`W`Yb`"

I bX`XUg`6YghY`ØVYf`\\Ui`dh3`9g[ ]Vh`\_Y]bY`dUgg]j`!U[ [ fYgg]j`Yb`  
Hci`f]ghYbž`X]Y`≡`bYb`Y`\\Yf`Y]b`5i`[ Y`Ui`gghYW`Yb`k`ØfXYbž`U`g`≡`bYb`  
Y]bYb`NYbh]a`YhYf`D`Uhn`ni`"UggYb`"

K U`VYcVUW`hi`b[ `]b`A`]f]ggU.`XUg`

K YgYb`h`]W`Y`

K Ug.`K U`VYcVUW`hi`b[ `]b`A`]f]ggU`"K`]Y`cVYb`Yfk`À`\\`bhž`j`Yfn]W`hYb`  
G]Y`Ui`ZX]Y`K U`VYcVUW`hi`b[ `i`bX`bi`hnYb`G]Y`ghUhhXYggYb`XUg`  
b`U`Y`[ Y`Y[ YbY`?`c[ [ U`Už`i`a`XUg`:`cfh`; U`Y`ni`VYgi`W`Yb`i`bX`XYb`  
?`c[ [ U`U`!GYY`ni`Yf`\_i`bXYb`"

K c.`K`]f`ØVYfbUW`hYhYb`]a`Gci`h`@\_Y`F`Ygc`fh]b`?`c[ [ U`Už`&\$`\_a`  
k`Ygh`]W`j`cb`A`]f]ggU`"8Ug`<`chY`V]YhYh`Y]bY`F`Y]`\\Y`[ Yf`À`i`a`][ Yf`  
N]a`a`Yf`a`]h`6`]W`\_Ui`Z`XYb`GYY`c`XYf`XYb`; UfhYb`i`bX`]gh`bi`f`  
k`Yb][ Y`A`]bi`hYb`]ca`GhfUbX`YbhZYfbhž`k`c`Y]b`\\Y]a`]gW`Y`:`]gW`Yf`  
Ui`Z`GhY`nYb`]a`A`YYf`g]hnYb`"

8 Ug`F`YghUi`fUb`h`V]YhYh`Y]bY`5i`gk`U`\\`Ub`]bhYfbUh]cb`U`Yf`?`ØW`Y`  
cV`k`c`\\`X]Y`c`\_U`Y`?`cgh`VY]`k`Y]hYa`Ua`"YW`\_YfghYb`k`Uf`"

Ni`XYb`5`\_h]j`]h`hYb`]b`XYf`F`Y][`cb`n`À`\\`Yb`XYf`6Ygi`W`X`Yg`; U`Y`  
:`cfhž`XUg`Gi`fZYb`]b`?`Uh`U`i`k`U`i`bX`XUg`GY[ Y`b`Ui`Z`XYa`?`c[ [ U`U`!

GYY" B U h Ø f ] W X \_ Ò b b Y b ' G ] Y ' g h U h h X Y g g Y b ' U i W X ' Y ] b Z U W X ' U a ' G h f U b X  
Z U i ' Y b n Y b ' c X Y f ' g ] W X ' Y ] b Y f ' 6 Y \ U b X ' i b [ ' ] a ' G d U ' C m U ' \ ] b [ Y V Y b ž ' X U g  
b i f ' Y ] b Y ' 6 c c h g Z U \ f h j c a ' < c h Y ' ' Y b h Z Y f b h ' ' ] Y [ h "

- 'U`h1 K U`VYcVUW`hi b[ ' ]a 'A ]f]ggU`Gci h\`@U`Y`F`Ygc`fh`  
%% 2
- 'U`h1 K U`VYcVUW`hi b[ ' ]a 'A ]f]ggU`Gci h\`@U`Y`F`Ygc`fh`  
%\* 2
- 'U`h1 K U`VYcVUW`hi b[ ' ]a 'A ]f]ggU`Gci h\`@U`Y`F`Ygc`fh`  
%' 2
- 'U`h1 K U`VYcVUW`hi b[ ' ]a 'A ]f]ggU`Gci h\`@U`Y`F`Ygc`fh`  
, 2
- 'U`h1 K U`VYcVUW`hi b[ ' ]a 'A ]f]ggU`Gci h\`@U`Y`F`Ygc`fh`  
- 2
- 'U`h1 K U`VYcVUW`hi b[ ' ]a 'A ]f]ggU`Gci h\`@U`Y`F`Ygc`fh`  
%& 2
- 'U`h1 K U`VYcVUW`hi b[ ' ]a 'A ]f]ggU`Gci h\`@U`Y`F`Ygc`fh`  
% 2
- 'U`h1 K U`VYcVUW`hi b[ ' ]a 'A ]f]ggU`Gci h\`@U`Y`F`Ygc`fh`  
( 2
- 'U`h1 K U`VYcVUW`hi b[ ' ]a 'A ]f]ggU`Gci h\`@U`Y`F`Ygc`fh`  
) 2
- 'U`h1 K U`VYcVUW`hi b[ ' ]a 'A ]f]ggU`Gci h\`@U`Y`F`Ygc`fh`  
\* 2
- 'U`h1 K U`VYcVUW`hi b[ ' ]a 'A ]f]ggU`Gci h\`@U`Y`F`Ygc`fh`  
) 2
- 'U`h1 K U`VYcVUW`hi b[ ' ]a 'A ]f]ggU`Gci h\`@U`Y`F`Ygc`fh`  
%( 2

5 h U g / ' 6 c c h g

K U b b . ' 8 ] Y ' V Y g h Y ' F Y ] g Y n Y ] h ' Z Ø f ' A ] f ] g g U ž ? c [ [ U ` U ` i ` b X ` X ] Y ` G Ø X \_ Ø g h Y  
G f ] ` @ U b \_ U g ] g h j c b ` 8 Y n Y a V Y f ` V ] g ` 5 d f ] ` ž k Y b b ` X ] Y ` B ] Y X Y f g W ` À [ Y  
[ Y f ] b [ ' g ] b X "

K ] Y . ' G ] Y ' \_ Ò b b Y b ' ? c [ [ U ` U ` a ` ] h ` X Y f ' 6 U \ b ` j c b ` 7 c ` c a V c ` U i g  
Y f f Y ] W X Y b ` f g ] Y \ Y ' : U \ f d ` U b ` \ ] Y f Ł " 8 U g ` G c i h \ ` @ U ` Y ` F ` Y g c ` f h ` ] g h ` b i f  
Y ] b Y b ` \_ i f n Y b ` G d U n ] Y f [ U b [ ' c X Y f ` Y ] b Y ` H i \_ ! H i \_ ! : U \ f h j c a ' 6 U \ b \ c Z  
Y b h Z Y f b h f % \_ a Ł "

Ÿ`bUW`5i g[ Ub[ gc f'ghY\Yb`j YfgW ]YXYbY`6i g`b]Yb`ni f  
J YfZ[ i b[ "9g`]gh`Yfk Å\bYbgk Yfhž XUgg`k ]f`6i gfY]gYb`]b`Gf]  
@Ub\_U`U`g`n]Ya `]W`ghfYgg][ `Ya dZUbXYbž`gcXUgg`G]Y`j ]Y`Y]W`h  
ghUhhXYggYb`Y]bYb`HfUbgZYf`bY\`a Yb`a ÒW`hYb" `Æf`< chY`\_Ubb`X]Yg  
UffUb[ ]YfYbž`UVYf`Yg`c\`bh`g]W`]a a Yfž`Y]bYb`F UVUhh  
Ui gni \UbXY`bž`XU`X]YgY`bcfa U`Yfk Y]gY`ØVYf\ Ò\`h`g]bX`fh" `6"  
k Ybb`%) "\$\$\$`@? F`Ub[ Y[ YVYb`g]bXž`ZfU[ Yb`G]Y`bUW`%%"\$\$\$`Ł"

J ]Y`Y`Hci f]ghYb`YbhgW`Y]XYb`g]W`XUZØfž`Y]bYb` : U\`fYf`ZØf`X]Y  
[ YgUa hY`F Y]gY`ni `a ]YhYb" `8]Yg`\_cghYh`i b[ YZÅ\`f`(`) `I G8`dfc`HU[  
fY]bgW`]Y» `]W`XYf`HU[ Yž`Ub`XYbYb`G]Y`XYb` : U\`fYf`b]W`h  
VYbi hmYbŁ" `K ]f`\ UVYb`5`U`fž` - (`+++`&, (`%+, Łi bX`G]g]fž` - (`+++  
&\$' `\$, ' Ł`ZØf`\_ØfnYfY`HfUbgZYfg[ Ybi hmhi bX`ZUbXYb`g]Y`ZfYi bX`]W`  
i bX`ni j Yf`Àgg][ "

8]Y`a Y]ghYb`]bhYfbUh]cbU`Yb` : `Ø[ Y`UbXYb`Ua `6UbXUfUbU]\_Y  
ÆhYfbUh]cbU`5]fdcfh`f7A`6Ł" `6i W`Yb`G]Y`ØVYf`G`mgWUbbYf`ni `XYb  
VYghYb`DfY]gYb"

`U`h1 2

@cbY`m`D`UbYh`Gf]`@Ub\_U`]gh`Y]b`i a ZUggYbXYf`F Y]gYZØ\`fYf`ZØf`Gf]  
@Ub\_Už`]XYU`ZØf`X]Y`Yb][ Ybž`X]Y`gck c\`X]Y`k ]W`h][ ghYb  
GY\`Ybgk ØfX][ \_Y]hYb`Yf`i bXYb`U`g`Ui W`k Yb][ Yf`VYZU\`fYbY  
GhfU» Yb`k Å\`Yb`a ÒW`hYb"

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

8YhU]`g

6Ygi W`Yb`G]Y`i bg`Ui Z. `Y]bY!fY]gY"XY