

; fUZ'K ]\Y`a `ni `GW\Ui a Vi f[ !@]ddY.`9]b  
6`]W\_`]b` '\$\$`>U\ fY` ; YgW\ ]W\ hY

; fUZ'K ]\Y`a `ni `GW\Ui a Vi f[ !@]ddY`VYgi W\ hY`Ub`Àgg`]W\  
gY]bYg` '\$\$` ; YVi fhghU[ g`X]Y` ; Ya Y]bXYb`A ]hhY`Vf]b`\_i bX  
JY\`Ybž`i a ` \]ghcf]gW\Y`JYfX]YbghY`ni `k ØFX][ Yb`"

f@UbX\_fY]g`GW\Ui a Vi f[ !@]ddY`VYgi W\ hY`Ub`Àgg`]W\  
K ]\Y`a `ni `GW\Ui a Vi f[ !@]ddY`VYgi W\ hY`Ub`Àgg`]W\  
@UbXYg\Yffž`]b`@cbXcb`[ YVcfYb`"9f`gYhnhY`g]W\`a ]h`nU\`fY]W\Yb  
FYZcfa Yb`ZØf`X]Y`JYfVYggYfi b[ `XYf`@VYbgi a gh`ÀbXY`gY]bYf  
I bhYfhUbYb`]b`gY]bYf` ; fUZgW\ UZh`Y]b`"èa ]hhYb`XYf`5i Z`Àfi b[  
ZØ\fhY`Yf`i a ZUggYbXY`Y`bXYfi b[ Yb`]a `6`]Xi b[ gk YgYbž`]b`XYf  
@UbXk ]fhgW\ UZh`i bX`]a `<UbXk Yf`\_Y]b`" ; fUZ'K ]\Y`a `k Uf`VY`\_Ubbh  
XUZØfž`VYXYi hYbXY`8Yb`\_Yf`gY]bYf`NY]hž`k ]Y`H\ca Ug`5VVh`i bX  
æ\Ubb` ; chhžf]YX`<YfXYfž`bUW\`6ØW\_YVi f[ `ni ` \c`Yb`i bX`dZY[ hY  
]bhY`\_Y`\_hi Y`\_Yb`5i ghUi gW\`a ]h`D\`]cgc d\Yb`k ]Y`J`c`hU]fY`i bX  
A cgYg`A YbXY`ggc`b`"9f`[ ]h`U`g`Y]bYf`XYf`Y]bZi`ggfY]W\ ghYb  
Hfi ddYbZØ\Yf`i bX`A ]]h`Àfh\YcfYh]\_Yfž`XYf`X]Y`a cfU`]gW\  
j YfhfYhVUFY`?f]Y[ gZØ\fi b[ `ghYhg`U`g`cVYfghYg` ; YVch`UbgU\`"

I a `Ub`X]Y`JYfX]YbghY`i bX`X]Y`j ]Y`gY]h][ Y`DYfgØb`]W\`\_Y]h`XYg  
; fUZYb`ni `Yf]bbYfbž`]YfUbghU`hYhY`X]Y`GW\Ui a Vi f[ Yf`@UbXgW\ UZh  
Ub`Àgg`]W\`gY]bYg` '\$\$` ; YVi fhghU[ g`Y]bY`ZYgh`]W\Y  
ègdY`\_h]cbgfY]gY`"Jca`" '\$`5i [ i gh`V]g`%"`GYdhYa VYf`"Y»` ; fUZ  
K ]\Y`a `a ]h`Y]bYf`8Y`Y[ Uh]cb`gY]bYg`èZUb`hYf]YfY[ ]a Yb`hg`X]Y  
FY[ ]cb`GW\Ui a Vi f[ `Ui ZYVYb`"5bXYfg`U`g`VY]`XYb` \]ghcf]gW\Yb  
ègdY`\_h]cbYb`Ui g`XYa` "%`" >U\ f\i bXYfh`VY[ Y[ bYhY`XYf` ; fUZ  
YXcW\`XYb`6Øf[ Yfb`XYg`>U\ fYg`&\$&(`"

; fUZ'K ]\Y`a g`6Ygi W\`]b`A ]hhY`Vf]b`\_

5a '%GdHYa VYfVYgi W hY ; fUZK ]\Y`a`X]Y ; Ya Y]bXY  
A ]hY`Vf]b\_žX]Y`Y]bY` [ Ubni`VYgcbXYfY`J`YfV]bXi b[ `ni`gY]bYf  
DYfgcb`U`h`5b`XYa`C`fhž`Ub`XYa`X`Yf` ; fUZ`j`cf`ØVYf`&) \$`đ\`fYb  
XYb` ; fi`bXghY]b`ZØf`X]Y`?`c`cb]ghYbg]YX`i` b[ ``Y[ hYž`hfUZ`Yf`Ui`Z`Y]bY  
`Yfn`]W`Y`6Y[ fØ`i` b[ `Xi`fW`X]Y`9]bk`c`b`Yfž`XUfi`bhYf`Ui`W`X`Y`b  
ghY`j`YfhfYhYbXYb`6Øf[ Yfa`Y]ghYf`j`cb`B]YXYfbk`Ø`fYbž`F`U`Z]I`k`Y  
GYY[ Yf`8]Y`5ha`cgd`Å`fY`k`Uf`ZYgh]W`i`bX`j`]Y`Y`6Øf[ Yf`U`hYb  
g]W`j`YfgUa`a`Y`hž`i`a`X`Y`a`Y`Y`a`U`][ Yb`@`UbXYg`Y`f`fb`]`fY`9`fY`ni  
Yfk`Y]gYb`"F`U`Z]I`k`Y`GYY[ Yf`[ UV`X`Y`a` ; fUZ`b`a`]h`g]W`h`]W`Y`a`G`hc`n  
5i`g`\_i`b`Z`h`Ø`V`Y`f`X]Y`9`b`h`k`]W`\_i`b[ `X`Y`f`G]Y`X`i`b[ ž`X]Y`j`cb`Y]b`Y`f  
\_Uf[ Yb`5bg]Y`X`i`b[ `ni`Y]b`Y`a`Z`cf]Y`f`Y`b`X`Y`b`8`cf`Z[ Yk`U`W`g`Y`b`k`U`f`ž  
i`b`X`Y`f`Y`h`X`U`Z`Ø`f`j`]Y`5`dd`U`i`g`"

8]Y`9]bk`c`b`Y`f`j`cb`A`]hY`Vf]b\_`k`UfYb`Y`f`Z`f`Y`i`h`Ø`V`Y`f`X`U`g`đ`h`Y`f`Y`g`g`Y  
X`Y`g` ; fUZ`b`U`b`]`f`Y`f` ; Y`g`W`]W`h`Y`i`b`X`V`Y`f]W`h`Y`h`Y`b`]`a` ``Y`V`U`Z`h`j`cb  
j`Y`f[ Ub[ YbYb`NY]hYb`i`b`X`X`Y`f`9`b`h`k`]W`\_i`b[ `X`Y`g`C`fh`Y`g`g`Y]h`X`Y`f  
 ; fØ`b`Xi`b[ `Xi`f`W`g`Y]b`Y`J`c`f`Z`U`f`Y`b`" ; fUZ`K`]`\`Y`a`ž`X`Y`f`j`cb`X`Y`b  
b`Y`i`U`fh][ Yb`@`Y`V`Y`b`g`V`Y`X]b[ i`b[ Yb`i`b`X`X`Y`b`J`Y`f`Å`b`X`Y`f`i`b[ Yb`]b`X`Y`f  
G]Y`X`i`b[ `V`Y`Y]b`X`f`i`W`\_h`k`U`f`ž`b`U`a`]g]W`i`NY]hž`i`a`a`]h`X`Y`b`6`Ø`f[ Y`f`b  
ni`d`U`i`X`Y`f`b`i`b`X`k`Y]h`Y`f`Z`Ø`f`Y`b`X`Y` ; fU[ Yb`ni`ghY`Y`b`"9`g`k`U`f`Y]b  
A`ca`Y`b`h`X`Y`f` ; fY`i`X`Y`i`b`X`X`Y`g`5`i`gh`U`i`g`W`g`n`k`]g`W`Y`b  
J`Y`f[ Ub[ Yb`Y]h`i`b`X` ; Y[ Y`b`k`U`f`h`"

## 6Ygi W`j]b`X`Y`f`<`U`i`g`V`f`U`i`Y`f`Y]`A`Y`]Y`f`\`Ø`Z`Y`f`

⇒a`5`bg`W`i`g`g`Z`Ø`f`h`Y`X]Y`F`Y]g`Y`X`Y`b` ; fUZ`b`ni`f`<`U`i`g`V`f`U`i`Y`f`Y]  
A`Y]Y`f`\`Ø`Z`Y`f`]b`J`Y`Y`b`ž`k`c`Y`f`g]W`i`Ø`V`Y`f`X]Y`h`f`U`X]h]c`b`g`f`Y]W`Y`A`Ø`Y`  
i`b`X`X`U`g`6`f`U`i`f`Y`W`h`i]b`Z`c`f`a`]Y`f`h`Y`ž`X`U`g`6`f`U`i`a`Y]gh`Y`f`<`c`[ Y`f`A`Y]Y`f`  
%-`-`-`Y`f`k`c`f`V`Y`b`U`h`Y`" ; fUZ`K`]`\`Y`a`n`Y][ h`Y`g]W`i`V`Y[ Y]gh`Y`f`h`j`cb  
X`Y`f`<`U`b`X`k`Y`f`\_`g`\_i`b`ghž`X]Y`]b`J`Y`Y`b`[ Y`d`Z`Y[ h`k`]f`X`"6`Y`g`c`b`X`Y`f`g  
V`Y`a`Y`f`\_`Y`b`g`k`Y`f`h`k`U`f`Z`Ø`f`]b`ž`X`U`g`g`X`U`g`6]Y`f`b`U`W`X`Y`a`U`h`Y`b  
F`Y]b`Y]hg[ Y`V`c`h`j`cb`%)`%(`[ Y`V`f`U`i`h`k`]f`X`i`b`X`b]W`h`i]b`8`c`g`Y`b`ž  
g`c`b`X`Y`f`b`Z]g`W`i`j`ca` ; U`g`g`c`X`Y`f`U`i`g` ; `U`g`Z`U`g`W`Y`b`g`Y`f`j`]Y`f`h`k`]f`X`"  
8]Y`g`Y`f`f`Y[ h`Y`g`Y]b`đ`h`Y`f`Y`g`g`Y`ž`i`b`X`Y`f`]Y`»`Y`g`g]W`i`b]W`h`i`b`Y`a`Y`b`ž`X]Y  
j`Y`f`g`W`]Y`X`Y`b`Y`b`6]Y`f`g`c`f`h`Y`b`ni`\_`c`gh`Y`b`i`b`X`X]Y`E`i`U`]h`h`X`Y`g  
 ; Y`h`f`Å`b`\_`g`g`Y`V`gh`ni`V`Y`i`f`h`Y]Y`b`"

8]Y`F`Y]g`Y`X`Y`g` ; fUZ`b`]b`G`W`U`i`a`V`i`f[ `k`Ø`f`X][ h`Y`g`c`a`]h`b]W`h`i`b`i`f`

X]Y'; YgW]W\hY'i bX'HfUX]h]cb'XYf'FY[ ]cbž'gcbXYfb'Ui W'X]Y  
\_cbh]bi ]Yf']WY'9bhk ]W\_i b[ 'i bX'X]Y'K YfhYž'ZØf'X]Y'Yf'gY'Vgh'NY]h  
gY]bYg'@YVYbg'\_Åa dZhY''9]b'k Y]hYfYf'HY]'XYf'ϕgdY\_h]cbgfY]gY  
k ]fX'Ua '' "C\_hcVYf'ghUhhZ]bXYbž'k Ybb'; fUZ'5XY'a Ubb  
<U[ YbVi f[ ž'X]Y'ϕgY'K ]\Y'a ghY]b'i bX'GhY]b\i XY'VYgi W'hž'i a  
X]Y'HfUX]h]cb'XYf'ϕgdY\_h]cbYb'Zc fhni ZØ\ fYb"

8YhU]`g

6Ygi W'Yb'G]Y'i bg'Ui Z.'b!U[ "XY