

⇒bX]gWΛ Y`F Y[]Yfi b[`ZØ\ fh`bYi Y`? fmdhc! GhYi YfghfUZY b`Y]b` `F Y[i`Uh]c b

8]Y`]bX]gWΛ Y`F Y[]Yfi b[`Uh`bYi Y`? fmdhc ghYi YfghfUZY b
Y]b[YZØ\ fhž`i bhYf`UbXYfYa `ZØf`X]Y`B]WΛ hnU\`i b[`XYf`Ub`XYf
E i Y`Y`UV[Ync[YbYb`? fmdhc ghYi Yf`fH8 GŁ`GY\`f`ni f
9bhĀi gWΛ i b[`XYf`? fmdhc! 7ca a i b]hmYfk Ā\bhY
:]bUbna]b]ghYf]b`B]fa U`U`G]h\UfUa Ub`? fmdhc`]b`]\fYf
X]Yg`Ā\`f][Yb`<Ui g\U`hgFYXY`b]WΛ h`? fmdhcY]bbU\`a Yb
k YfXYb`k Y]hYf\]b`a]h` \$`i `VYghYi Yfhž`k Ā\fYbX`H8 G`VY]`%
i `V`Y]Vh`? Y]bY`? fmdhc! GhYi YfYf`Y]WΛ hYfi b[`]b`⇒bX]Yb`8]Y
]bX]gWΛ Y` :]bUbna]b]ghYf]b`B]fa U`U`G]h\UfUa Ub`ghY`hY`Ua
A]hk cWΛ`ja `DUf`Ua Ybh`XYb`i b]cbg\Ui g\U`h`&\$&` `j cfž
Y]bYb`HU[`bUWΛ XYa `g]Y`XYb`X]Yg`Ā\`f][Yb`K]fhgWΛ UZhVYf]WΛ h
j cf[YghY`h`UhhY`Yfj cf[Y\cVYb`X]Y`Bchk YbX][`_Y]h` Y]bYg
[Ya Y]bgUa Yb`5bgUhnYg`ni f`F Y[i`]Yfi b[`XYg`? fmdhc!
2 _cgmghYa g ``GY\`f`ni f`9bhĀi gWΛ i b[`XYf`]bX]gWΛ Yb`? fmdhc!
7ca a i b]hmYfk Ā\bhY`G]h\UfUa Ub`? fmdhc`k Ā\fYbX`]\fYf
<Ui g\U`hgFYXY`b]WΛ h`B UWΛ`]\fYf`F YXY`/ Ua d^Y`]d/





8]Y`]bX]gWXY`FY[]Yfi b[`Uh`bYi Y`? fmdhc ghYi YfghfUZYb
 Y]b[YZØ\fhž`i bhYf`UbXYfYa `ZØf`X]Y`B]W hU\`i b[`XYf`Ub
 XYf`E i Y`Y`UV[Ync[YbYb`? fmdhc ghYi Yf`fH8GŁ`GY\`f`ni f
 9bhhÄi gWxi b[`XYf`? fmdhc!7ca`a`i`b]hm`Yfk`Ä`b`hY
 :]bUbna`]b]ghYf]b`B]fa`U`U`G]h\UfUa`Ub`? fmdhc`]b`]\fYf
 X]Yg`Ä`f][Yb`<Ui`g\U`hgfYXY`b]W`h``? fmdhcY]bbU\`a`Yb
 k`YfXYb`k`Y]hYf\]b`a`]h`\$`i`VYghYi`Yfhž`k`Ä`fYbX`H8G`VY]`%
 i`V`Y]Vh`

? Y]bY`? fmdhc!GhYi`YfYf`Y]W`hYfi`b[`]b`=bX]Yb

8]Y`]bX]gWXY` :]bUbna`]b]ghYf]b`B]fa`U`U`G]h\UfUa`Ub`ghY`hY`Ua
 A]hk`cW`]a`DUf`Ua`Ybh`XYb`i`b]cbg\Ui`g\U`h`&\$&`]`cfž`Y]bYb`HU[
 bUW`XYa`]g]Y`XYb`X]Yg`Ä`f][Yb`K`]fhgW`UZhgVYf]W`hj`cf[YghY`h
 \UhY`Y`Yfj`cf[Y\`c`VYb`X]Y`B`chk`YbX][`_Y]h`Y]bYg`[Ya`Y]bgUa`Yb
 5bgUhnYg`ni`f`FY[i`]Yfi`b[`XYg`? fmdhc!2`_cgmghYa`g`"

GY\`f`ni`f`9bhhÄi`gWxi`b[`XYf`]bX]gWXYb`? fmdhc!7ca`a`i`b]hm
 Yfk`Ä`b`hY`G]h\UfUa`Ub`? fmdhc`k`Ä`fYbX`]`fYf`<Ui`g\U`hgfYXY`b]W`h`
 BUW`]\`fYf`F`YXY`[]b[Yb`j`]Y`Y`]bX]gWXY`? fmdhc!6YZØfk`cfhYf`ni
 Hk`]hhYfž`i`a`]\`fY`A`Y]bi`b[`ni`Äi`»`Yfb`"BYYfU`^`?\`UbXY`k`U`ž
 A`]hVY[fØbXYf`XYf`? fmdhcVØfgY`7c]bXW`ž`hk`]hYfhY.

?Y]bY`ÿbXYfi b[Yb`XYf`? fmdhcVYghYi Yfi b[`]b` ðX]Yb`]b
XYf`<Ui g\U`hgg]hni b[``9g`]Y[h`VY]`%i `H8G`i bX` \$`i `Ui Z
; Yk]bbY``8]Yg`VYbUW\hY`][h` ðX]Yb`ZØf`Y]b`k Y]hYfYg`ÿ\`f`

GUh\j]_`J]g\k UbU\ž`79C`XYf`]bX]gW\Yb`? fmdhc!6ØfgY`i bcWc]bž
gW\]YV.` ? fmdhc`cXYf`6`cW`W\U]b`k i fXYb`X]Yga`U`]b`6i X[Yh`b]W\h
Yfk`À\bh``9g]gh`Y]b`ÿ\`f`Yfž`XUgg`%i `H8G`Ub[Y`ØbX][h`k i fXYbž
i bX`k]f`U``Y`XUW\hYbž`XUgg`X]Yg`X]Y`6fUbW\Y`VYhfYZZYb`k ØfXY``9g
hUh`>`hnh`VfUi W\Yb`k]f`k]YXYfVY`YVYbXY`ÿbXYfi b[gUbhf`À[Y`

F U`U[cdU`A Ybcbž`J]nYdf`Àg]XYbh`XYf`? fmdhc!6ØfgY`K Un]fi ž
a Y]bhY.` 8Ug`6i X[Yh`&\$&` `XYf`]bX]gW\Yb`i b]cb`U`h`_Y]bY
ÿbXYfi b[Yb`Ub`XYb`VYghY`YbXYb`? fmdhc!GhYi Yfb`j cf[Ybca`a Yb
i bX`]bX]gW\Y`? fmdhc!i bhYfbY`a Yb`Ui Z`XYf`HfYddY`ni a`<]a`a Y`
ni fØW_[Y`UggYb``9g`VYghY`h`Ub`U`hYbXY`i bg]W\Yf`Y]h`Ui Z[fi bX
\c`Yf`GhYi Yfb`i bX`XYg`Y`Y`Ybg`Y]bYg`gc`]XYb`fY[i`U`hcf]gW\Yb
F U`a Ybgž`X]Y`XYb`i`c`fhgW\]h`]b`XYf`6fUbW\Y`Yfgh]W`_Yb`

8]Y`]bX]gW\Y`F`Y[]Yfi b[`ZØ\`fh`? fmdhc!
GhYi Yfghf`UZY`b`Y]b

K`À`fYbX`X]Y`i`]bUbna`]b]ghYf]b`? fmdhc`]b`]\`fYf`<Ui g\U`hgfYXY
b]W\h`Yfk`À\bhYž`\Uh`X]Y`i`]bUb`nfY`W\bi`b[`Yb`h`À`h`6Yf]W\hYb
ni Zc`[Y`Y]bY`ÿbXYfi b[`XYg`9]b`_ca`a YbghYi Yf[YgYhnYgž`X]Y`ZØf
? fmdhc!H8G`i`]`h`

? fmdhc!GhYi YfZ]fa`U`?c]bl`Yf`_`Àfh`Ui Z`Hk`]hYfž`XUgg`X]Y`Ghf`UZY`ZØf
XUg`J`Yfg`Ài`a`b]gž`? fmdhc!H8G`UV`ni`n]Y`Yb`cXYf`ni`nU`\`Ybž`Y]bYb
6YhfU[`]b`<`Ø`Y`XYf`i`bVYnU`\`hYb`H8G`i`a`ZUggž`XYf`j`cb`Y]bYa
[Ya`Y]bgUa`Yb`?ca`a`]ggUf`Ui`ZYf`Y[h`k`]fXž`k`cVY]`XUfUi`Z
\]b[Yk`]YgYb`k`]fXž`XUgg`ZØf`j`Yfgd`ÀhYhY`NU`\`i`b[Yb`%)`i`N]bgYb
dfc`ÿ\`f`Yf`cVYb`k`YfXYb``BUW\` ðX]Yb`Yi`hY`_Ubb`XUg
J`Yfg`Ài`a`b]gž`H8G`ZØf`? fmdhc!HfUbgU`_h]cbYb`ni`nU`\`Ybž`Y]bYb`ZØf
V]g`ni`g]YVYb`ÿ\`fY`]bg`i`Y`Z`Ab[b]g`Vf]b[Yb`

5g\]g\`G]b[\U`žA]hVY[f0bXYf`i bX`79C `XYf`? fmdhc!
< UbXY`gd`UhhZcfa `7c]bgk]hW ž`Ui Z`Hk]hhYf`Ui gZ0\`f`]W.

8]Y`H8G`j cb`%i` `Z0f`? fmdhc! HfUbgU_h]cbYb`V`Y]Vh
VYghY\`Yb" `5VYf`Yg`[]Vh`Y]bY`? `UfghY``i b[" `8]Y
J YfUbhk cfhi b[`Z0f`XYb`5Vni [`j cb`H8G``U[`VY]`? fmdhc!
60fgYb`cXYf`VY]a `6Ybi`hnYf`fMY]`J Yfk YbXi b[`j cb`D&D
cXYf`UbXYfYb`A]hhY`bž`UVYf`V]g\`Yf`[UV`Yg`_Y]bY`GhfUZY
Z0f`XYb`B]W hUVni ["

5`g`G]h\UfUa Ub`]a `j Yf[Ub[YbYb`ž\`f`X]Y`6YghYi Yfi b[`j cb
? fmdhc! 9]b_ca`a Yb`a]h" \$`i` `i bX`Y]bY`H8G`j cb`%i` `Ui Z? fmdhc!
HfUbgU_h]cbYb`Ub_0bX][hYž`gh]Y[`XUg`? fmdhc! < UbXY`gj c`i`a Yb`]b
žX]Yb`UV[Ygh0fnh" `8 Ug`i: Y\`Yb`Y]bYg`fY[i`Uhc]gWYb`FU\`a Ybg
Z0f`? fmdhc`i bX`X]Y`NYbhfU`VUb_`gYhnh`g]W`Zc`fh`? fmdhc! J YfV`c`h
J c`fgW`U[`ni`XYf`I`bg]WYf\`Y]h`VY]hfU[Ybž`X]Y`? fmdhc!
I bhYfbY\`a Yb`i bX`žj Yghc`fYb`Ui g`žX]Yb`j YfhfY]Vh" `? fmdhcV0fgY
6]bUbW`ni`a `6Y]gd]Y``gY\`Y`b]W`h`žX]Yb`U`g`hfU[Z\`][Y
; YgW`žZ`ga`0[`]W`_Y]h"

K Ug`\`U`hYb`G]Y`j cb`XYb`j cb`XYf`]bX]gW Yb`F`Y[]Yfi b[
j Yf\`Ab[hYb`? fmdhc! GhYi YfghfUZYb3`@UggYb`G]Y`Yg`i`bg`i`a
? ca`a YbhUfVYfY]W`i bhYb`k`]ggYb"

? Yj]b`<Y`a`g`

5`g`Ghi`XYbh`XYf`ÖghYffY]W]gW`Yb`K`]fhgW`UZhgk`]ggYbgW`UZhYb`YbhXYW`hY`?`Yj`]b`
6]hWc]b`]a` `>U\F`&\$%%`i` bX`]gh`gY]hXYa` `Y]b`9j`Ub[`Y`]gh`"GY]bY` `bhYfYggYb` ``Y[`Yb`]b`XYf`
6]hWc]b`!G]W`Yf\Y]hž`C`dYb!Gci`fVW!GmghYa`Ybž`BYhnk`Yf`_ZZY`_hYb`i` bX`XYf`GW`b]hhghY``Y`
nk`]gW`Yb`^2`_cbca`]Y`i` bX`?`fmdhc[`fUd\`Y`"

6]`X`b`UW`k`Y]g.`G\`i`hhYfghc`W_ž`D]l`UVUmž`K`]_]7ca`a`cbg`

6Y`]YV`hYfY`B`UW`f]W`hYb`

:`U``g`8`i` `Yg`j`Yfd`Uggh`\`Ugh`

f[bWh]cbfKž`gž`]XŁ`o`j`Uf`^gž`Z`g`1` `X"[`Yh9`Ya`Ybhg6`mHU[`B`Ua`YfgŁ`Q`
]Z`fK"[`Yh9`Ya`Ybh6`m`X`f]XŁ`fYhi`fb`/`^g`1` `X"WfYUhY9`Ya`YbhfgŁ`/`^g"]X`1`
]X`/`^g`"gfWl` "\`hhdg`#A`c`bb`YWh"ZUW`Vcc`_"bYh#`YbSl`G#gX`_"^g` |`Z`a` `1`%`
j`Yfg]cb1`j` ` "&"/`Z`g"dUfYbhB`cXY"]bgYfh6`Y`Zc`fYfł`gž`Z`gŁ`/`qfXcW`a`Ybhž`
fgWf]dhfž`fZUW`Vcc`_!`^ggX`_fłŁ`/`

8YhU]`g`

6Ygi`W`Yb`G]Y`i`bg`Ui`Z.`_fmdhc!`bYk`g`"Uh`