

B Yi Yf`[ Yd`UbhYf`9H: `n]Y`h`Ui Z`B: H!  
VYnc [ YbY`5\_h]Yb`UV

8]Y`9]bfY]Wxi b[ `YfZc`[ hž`U`g`X]Y`G97`j cf[ YgW`U[ YbY`Gdch!  
6]hWc]b!9H: g`XYf`: cbXgYa ]hhYbhYb`BMB ÷ `i bX`; `cVU`L`Ua  
8cbbYfghU[ `UV`Y`b`h`Y`9I W`U`b[ Y`HfUXYX`7cbW`dhg`\Uh`a  
C\_hcVYf`XYb`: ci bh`A`Y`h`Uj YfgY`9H: `Ui Z[ Y`Y[ h`8Yf`Df]j UhY!  
@UVY`!9H: !9a ]hhYbh`9I W`U`b[ Y`HfUXYX`7cbW`dhg`d`Ubh`X]Y  
9]bZ0\fi b[ `Y]bYg]bXYI bUW`V]`XYbXYb`9H: ž`XYf`Yi Z`B: H!  
I bhYfbY`a`Yb`UVn]Y`h`8Yf`9H: ž`XYf`Y]bYb`bXYI`XYf`: ci bh  
`b] Ygha`Ybh`7ca`dUbm`UVV]`XYhž`gc``X]Y`@Y]ghi b[ `j`cb  
I bhYfbY`a`Yb`j`YfZc`[ Ybž`X]Y`DfcXi`\_hY`cXYf  
8]Ybgh`Y]ghi b[ Yb`]b`HY]`VfUbW`Yb`XYf`Hc`\_Yb!HYW`bc`c[ ]Y  
Ybhk ]W`Y`bž`\YfghY`Ybž`j`YfhfY]VYb`cXYf`j`Yf`\_Ui`ZYb`Y]bY  
VY`\0fX`W`Y`C`ZYb`Y[ i b[ `Ua`8cbbYfghU[ "8Uni`[ Y`\0fYb  
?i bgh`i`bX`I`bhYf`U`hi b[ ž`Gd]Y`Yž`6`c`W`W`U]b!HYW`bc`c[ ]Y  
i bX`B: H!`bZfUghfi`\_hi`f`fb]W`h`Z`b[ ]V`Y`Hc`\_Yb`E`" 8]Y`Z0f`Y]b  
`U`f`dfc[ bcgh]n]YfhYb`9]bbU`a`Yb`YXYg`Hc`\_Yb!9Wc`bca`m!  
I bhYfbY`a`Ybg`k`YfXYb`0VYfdf0Z`h`i`bX`/`Ua`d`^`Y``]d/

- 8]Y'9]bfY]Wxi b[ 'YfZc`[ hž'U`g`X]Y`G97`j`cf[ YgW`U[ YbY`Gdch! 6]hWc]b!9H: g`XYf': cbXgYa ]hYbhYb`BMB = `i bX'; `cVU`L Ua `8cbbYfghU[ `UV`Y`bhY
- 9I WU b[ Y`HfUXYX`7cbW`dhg`U`h]a `C`\_hcVYf`XYb': ci bh AYhUj YfgY`9H: `Ui Z[ Y`Y[ h

8 Yf`Df]j UH!@UVY`!9H: !9a ]hYbh`9I WU b[ Y`HfUXYX`7cbW`dhg`d`Ubh X]Y`9]bZØ\fi b[ `Y]bYg`]bXYI bUWV]`XYbXYb`9H: žXYf`Ui ZB: HI I bhYfbY`a Yb`UVn]Y`h"

8 Yf`9H: žXYf`Y]bYb` ðXYI `XYf': ci bh`ðj Ygha Ybh`7ca dUbm UVV]`XYhž`gc``X]Y`@Y]ghi b[ `j`cb`l`bhYfbY`a Yb`j`YfZc`[ Ybž`X]Y DfcXi `\_hY`cXYf`8]Ybgh`Y]ghi b[ Yb`]b`HY]`VfUbW`Yb`XYf`Hc`\_Yb! HYW`bc`c[ ]Y`Ybhk ]W`\_Y`bž`YfghY``Ybž`j`YfhfY]VYb`cXYf`j`Yf`\_Ui`ZYb` Y]bY`VY`ÖfX`]W`Y`C`ZZYb`Y[ i b[ `Ua `8cbbYfghU[ ""

8 Uni `[ Y`ÖfYb`?i bgh`i bX`l`bhYf`U`hi b[ ž`Gd]Y`Yž`6`cW`W`U]b! HYW`bc`c[ ]Y`i bX`B: HI ðZfUghfi `\_hi`f`fb]W`h`Z` b[ ]V`Y`Hc`\_Yb`Ł`

8]Y`ZØf`Y]b`ſ\`f`dfc[ bcgh]n]YfhYb`9]bbU`a Yb`YXYg`Hc`\_Yb! 9W`bca`m`l`bhYfbY`a Ybg`k`YfXYb`ØVYfd`fØ`ž`i bX`bi`f I bhYfbY`a Ybž`j`cb`XYbYb`Yfk`UfhY`h`k`]fXž`XUgg`g]Y`a`Y`f`U`g`) \$`i ]\`fYf`9]bbU`a Yb`Ui`g`Y]bYf`HY]`VfUbW`Y`XYf`Hc`\_Yb!HYW`bc`c[ ]Y`Yfn]Y`Ybž`XØfZYb`]b`XYb` ðXYI `Ui`Z[ Ybca`a`Yb`k`YfXYb`ž`Y]»`h`Yg`]b XYf`9]bfY]Wxi b[ "

8]Y`C`ZZYb`Y[ i b[ `ghY``h`ZYghž`XUgg`B: Hg`Y]bY`A`Ö[ `]W`\_Y]h`ZØf 9]bnY`dYfgc`bYb`g]bXž`X][ ]hU`Y`?i bghk`Yf`\_Y`ni`VYg]hnYbž`ni gUa`a`Y`b`i`bX`ni`j`Yf`\_Ui`ZYb""5VYf`XUg`l`bhYfbY`a`Yb`dfc[ bcgh]n]Yfhž`XUgg`X]YgY`b]W`h`Z` b[ ]V`Yb`Hc`\_Yb`Ui`W`hfUX]h]cbY``Y`; YgW`Å`Z`hga`cXY``Yž`X]Y`]b`XYf`; `ØW`ggd]Y`VfUbW`Y`VYhf]YVYb`k`YfXYbž`Yf`YV`]W`j`Yf`AbXYfb`k`YfXYb` ""

8 i fW`X]Y`#hY[ fUh]cb`j`cb`B: Hg`]b`Gd]Y`Y`k`]fX`Y]b`D`Um!hc!9Ufb!  
A cXY``Y]b[ YZ0\fhz`VY]`XYa`Gd]Y`Yf`Y]bn][ Ufh][ Y`J`Yfa`O[ Ybgk`YfhY  
k`Y]; fi`bXgh0W\_Yz`7\UfU\_hYfY`i`bX`?cgh0a`Y`j`YfX]YbYb`\_0bbYbž  
X]Y`[ Y\UbXY`h`cXYf`j`Yf\_Ui`Zh`k`YfXYb`\_0bbYb`"

## 8]Y`Ni`\_i`bZh`j`cb`B: Hg

: 0\fi`b[ g\_fA`ZhY`j`cb`DUbhYfU`7`Ud]hU`ž`XUg`J`YfdZ]W`hi`b[ Yb`]b`<`0\Y  
j`cb`%`A`j``]UfXY`i`G!8c``Uf`Z0f`Y]bYb`6`c`W\_W`U]b!:`cbXg`U`hž  
VYnY]W`bYhYb`; Ua`]b[ `U`g`Y]bYb`f]Yg][ Yb`GY`\_hc`f`Z0f`X]Y  
\_ca`a`YbXYb`#U\`fY`ž`i`bX`gU[ hYbž`XUgg`B: Hg`XUni`VY]hfU[ Yb  
k`YfXYbž`X]Yg`ni`YffY]W`Yb`"

8]Y`?`fmdhc!60fgY`: HL`U`h`Y`hnhYb`A`cbUh`Y]bY`bYi`Y`; Ua`]b[ !  
5VhY]i`b[ `j`cf[ YghY``hž`X]Y`Yg`9bhk`]W`Yfb`Yfa`O[ `]W`hž`Hc`\_Yb`ni  
ghUfhYb`i`bX`B: Hg`]b`]\`fYb`C`b`]bY!K`Y`hYb`ni`V`U`i`Yb`"

8 Ug`6`c`W\_W`U]b!Gc`Zh`k`UfY!HYW`bc`c`[ ]Yi`bhYfbY`a`Yb`7`cbgYbGmg  
gU[ hYž`Yg`k`c``Y`B: Hg`j`Yfk`YbXYbž`i`a`X]Y`b`A`W`ghYb`nY`b`A`j``]cbYb  
6Ybi`hnYf`]b`gY]b`<`Ui`dhd`fc`Xi`\_h`A`YhUa`Ug`\_`Y]bni`V]bXYbž`i`bX  
Yf`\_i`bXYh`6Yg]W`Yfi`b[ ž: fU`\_h]cb]Yfi`b[ ž`HUi`gW`Ybž`5i`g`Y]\`Yb`i`bX  
J`Yf`Y]\`Yb`"

, VYf`GUa`a`Yfgh0W\_Y`\]bUi`g`gU[ hY`#`bbU`Dck`Y``ž[ `c`VU`Y`7`c!  
@Y]hYf]b`j`cb`7`cbgYbGmg`B: Hgž`XUgg`XYf`@YVYbg`Ui`Zž`X]Y  
?fUb`\_YbU`\_hY`c`XYf`X`Yf`: 0\`fYfgW`Y]b`Y]bYf`DYfgc`b`B: Hg`gY]b  
\_0bbhYb`"

B: Hg`g]bX`]a`?`Yfb`Y]bY`ghfi`\_hi`fY``Y`#bcj`Uh]cb`ž`gU[ hY`B]W\_  
9a`a`cbgž`79C`j`cb`i`dg\`chž`Y`hnhYb`A`cbUh`k`A`\`fYbX`Y]bYg  
9H<8Ybj`Yf!DUbY`g``K`Ybb`]a`a`Yf`a`Y`\`f`Yi`ch]gW`Y`i`bX  
YgchYf]gW`Y`: ]bUbn]bghfi`a`YbhY`i`bX`!j`Y\`\_Y`c`b`]bY`\_ca`a`Ybž  
k`YfXYb`g]Y`U`g`B: Hg`XUf[ YghY``h`i`bX`\_0bbYb`XYb`f`Ygh`X]YgYg  
6]`XYg`Y]bYg`k`]f`\_]W`X`YnYbhfU`]g]YfhYbž`Ui`gXfi`W`gghUf`\_Yb  
:]bUbngmghYa`g`Ui`gZ0`Yb`"

#b`9fa`Ub[ Y`i`b[ `j`cb`Gd`ch!`?`fmdhc!9H: g

8]Y`NU\`XYf`fY[ ]ghf]YfhYb`i bX`Ui ZXYa`A Uf\_h`VYZ]bX`]WYb  
\_fmdhcVYnc[ YbYb`9H: g`gh`b`XYb`YhnhYb`A cbUhYb`[ Ygh]Y[ Ybž`XU  
X]Y`GYW`f]h]Yg`UbX`9I WU b[ Y`7ca`a`]gg]cb`bcW`\_Y]bYb`9H:  
[ YbY\`a`][ h`\Uhž`XYf`X]fY`\_h`b`6]hW`b`]bj Ygh]YfYb`k ØfXY`

8]Y`G97`Y\`bhY`Ua`8`cbbYfghU[ `Gdchl6]hW`b!9H: !J`cfgW`À[ Y`j`cb  
: cbXgYa`]hhYbhYb`UV`**B MB**⇒ `i bX`; `cVU`L`"

9I WU b[ Y`HfUXYX`7cbW`dhg`\Uh`]a`C`\_hcVYf`XYb`: ci bh`A`YhUj`YfgY  
9H: `fA`HJ`F`L`Ui`Z[ Y`Y[ h`8Yf`: cbXg`j`Yfk`U`hYh`Y]b`J`Yfa`Ò[ Yb`j`cb  
fi bX`%%`A`j`]cbYb`I`G!8c`Uf`"

8YZ]UbW`9H: g`VfUW`hY`]a`8`YnYa`VYf`gY]bYb`8][ ]hU`F`Yj`c`i`h]cb  
9H: `fB: HN`L`Ui`ZXYb`A`Uf\_hž`XYf`]b`B: H!A`Uf`hd`À`hY`i`bX  
!9a`]hhYbhYb`]bj Ygh]Yfh`8]YgYg`DfcXi`\_h`j`Yfk`U`hYh`XYfnY]h`Ui`W  
J`Yfa`Ò[ Yb`gk`YfhY`]b`<`Ø\`Y`j`cb`Yhk`U`%%`A`j`]cbYb`I`G!8c`Uf`"

8]Y`9]bY]W`i`b[ `j`ca`8`cbbYfghU[ `Ybh\]Y`h`k`YXYf`Y]bYb`H]W`\_Yf  
bcW`\_Y]bY`?`cghYbei`chY`ZØf`XYb`j`cf[ YgW`\_U[ YbYb`: ci bh`Hc`\_Yb  
9W`bca`m`9H: "`9]b`GdfYW`Yf`XYg`I`bhYfbY\`a`Ybg`Ubhk`cfhYhY`b]W`h  
gcZcfh`Ui`ZY]bY`6]hhY`i`a`GhY`i`b[ bU\`a`Y`"

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""

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8Yf`6Y]hfU[ `BYk`D`UbbYX`9H: `HUf[ Yhg`B: H!fY`UhYX`GhcW`\_g`]gh  
\_Y]bY`Z]bUbn]Y`Y`6YfUhi`b[ "

8YhU]`g

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