



## EDST1108

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GYa YghYf`Hk c`##`&\$%

# 7ci fgY`Cj Yfj JYk

'GHUZZ7cbhUWw'8YHU]`g`

'7cbj Ybcfg`

B Ua Y	9a U]`	5j U]UV]`]m	@cWUhc b	D\cbY
? U\Yf]bY H\ca dgcb	_U\Yf]bY"hc a dgcb4 i bgk "YXi " Ui	: f]XUm g', Ua '!`%\$Ua	7 cbgi `hUhc b \ci fg`UhH\Y K \]h' <ci gY	d`YUgY`Ya U]`

## GWcc`7cbhUWw`bZcfa Uh]cb

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@Yj Y`%ž>c\b'; ccXgY`oi ]X]b[ `fi &\$Ł

H. Ž\*%f&Ł-' , )`% ++

9. YXi WUhc b4 i bgk "YXi "Ui

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## 5hYbXUbW`F Yei ]fYa Ybhg

5XX]hc bU`GWcc`cZ9Xi WUhc b`UhYbXUbW`fYei ]fYa Ybhg

h]g`YI dYWYX`hUhUbmigh XYbhYbfc`YX`]b`Ub`98GH`Wci fgY`k ]h`hY`GWcc`cZ9Xi WUhc b`k ]`a U\_Y`U  
Wca a ]ha Ybhic`hY]f`YUfb]b[ `UbX`UhYbX`U`WUggYg`]b`Z`k \YfY`WcbhYbh]g`XY`]j YfYX`]b`U`ZUW`!hc!ZUW  
a cXY`YI Wf dh]b`Wf fU]b`WfW`a ghUbWw`g`k \YfY`UVgYbW`]g`Xi Y`hc`]`bYggž`a ]gUXj Ybh fy`cf`i bZcfYgYYb  
WfW`a ghUbWw`g`VYncbX`hY`gh XYbhg`Wcbfc`""5`a ]b]a i a`UhYbXUbW`fYei ]fYa YbhicZ, \$i` ]g`fYei ]fYX`Zcf  
YUW`Wci fgY`" `b`Wf fU]b`WfW`a ghUbWw`g`Z`U`gh XYbhia Uma ]gg`i d`hc`&\$i`cZU`Wci fgY`k ]h`ci hZcfa U`  
Udd`]WUhc b`UbX`i d`hc`" i`cZU`Wci fgY`k ]h`Zcfa U`XcW`a YbUhc b`fYbhj ]U`Ya U]`hc`Wci fgY`Wcbj YbcfŁ  
dfcj ]X]b[ `U`hY`fYei ]fYa Ybhg`XYHU]YX`VY`ck`UfY`a YH`Gh XYbhg`bcha Yf]b[ `hY`UhYbXUbW  
fYei ]fYa Ybhg`ci h]bYX`UVcj Y`k ]`VY`Uk UfYX`Ub`i`bgUhgZUW`cfm: U]`fl` : ŁZcf`hUhWci fgY`fY[ UfX`Ygg`cZ  
hY]f`dYfZcfa UbW`]b`hY`UggYgga YbhUg\_g`cf`chYf`fYei ]fYa Ybhg`Zcf`hY`Wci fgY`"

: cfZ f\Yf]bZcfa Uh]cb`cb`9Xi WUhc b`Wci fgY`UhYbXUbW`fYei ]fYa Ybhg`žd`YUgY`fYZf`hc`hY`fYgdYW]j Y  
98GH`A ccX`Y`a cXi`YfgŁ`

## 5WUXYa ]W`bZcfa Uh]cb`

: cfYggYbh]U`gh XYbh]bZcfa Uh]cb`fY`Uh]b[ `hc`fYei Yghg`Zcf`YI hYbg]cb/fYj JYk`cZa Uf\_g/cVW dUh]cbU`\\YU`h  
UbX`gUZf]m`YI Ua ]bUhc b`dfcW`Xi fYg/gdYW]U`Wcbg]XYfUhc b]b`hY`Yj YbhicZ]`bYgg`cf`a ]gUXj Ybh fy/  
gh XYbhYei ]mUbX`X]gUV]`]m`UbX`chYf`YggYbh]U`UWUXYa ]W]bZcfa Uh]cbž  
gYY`[\hfdg.##k k "Ufng"i bgk "YXi "Ui #W ffYbh\]gh XYbhg#UWUXYa \]W\]bZcfa Uh\]cb#dfchW`gl\[i \]XY`\]bYg#](#)

7ci fgY'8YHJ]`g

7fYX]hDc]bHg`\*`

Kcf\_`cUX

%) \$\`ci fg]bWf X]b[ `WUgg`WcbUWf\ci fgžfYUX]b[ gž`WUgg`dfYdUfUf]cbžUggYgga YbžZc``ck`i d`UWfj ]fYgž  
YfW

5i ghfU`]Ub`DfcZYgg]cbU` ; fUXi UhY`HYUW ]b[ `GHUbXUfXg

GHUbXUfX	8YgW]dh]cb
%`&`%"	8Ya cbghfUH`_bck`YX[ Y`UbX`i bXYfgfUbx]b[ `cZFygYUfW` ]b]rc` \ck` `gh` XYb]g` `YUfb` UbX` h.Y` ]a` d`]W]h]cbg` Zcf`HYUW ]b[ "
%(` "%	8Ya cbghfUH` VfcUX`_bck`YX[ Y`UbX`i bXYfgfUbx]b[ `cZ`h.Y` ]a` dUW]cZW` `hi` fYz`W` `hi` fU` ]XYb]h]m]ubX` ]b[ i` ]gh]WVUW`_ [ fci bX`cb` h.Y` YXi` W]h]cb` cZgh` XYb]g` Zca` `5Vcf][ ]bU` UbX` HcffYg` GfU]h-g` UbXYf` VUW`_ [ fci bXg"
&(` "%	8Ya cbghfUH` VfcUX`_bck`YX[ Y`cZ`i bXYfgfUbx]b[ `cZUbX` fYgdYW]h]Zcf` 5Vcf][ ]bU` UbX` HcffYg` GfU]h-g` UbXYf` \ ]g]rcf]Yg`z`W` `hi` fYg` UbX` `Ub[ i` U[ Yg"
+`&`%"	I` bXYfgfUbx` h.Y` fY`Yj` Ubh`Y[ ]g`Uh]` Yz`UXa` ]b]ghfU]h] Y`UbX` cf[ Ub]gU]h]cbU` dc`]W]Yg` UbX` dfcV`ggYg` fYei` ]fYX` Zcf`HYUW`Yfg`UW`c`fX]b[ `rc` gV`cc` `ghU[ Y"
+`" `%"	I` bXYfgfUbx` ghfUH[ ]Yg` Zcf` k` cf`_ ]b[ `YZZ`W]h] Y`m`z`gYb]g]h] Y`m]ubX` V`cb`Z]XYb]h]U`mk` ]h` dUfYb]g`#W]fYfg"
+`(` "%	I` bXYfgfUbx` h.Y` fc`Y`cZYI` h`fbU` dfcZYgg]cbU`g` UbX` V`ca` a` i` b]hmfYdfYgYb]h]h] Yg` ]b` VfcUXYb]b[ `h`UW`Yfgf]dfcZYgg]cbU`_bck`YX[ Y`UbX` dfUW]W`"

B U]h]cbU` Df]cf]h]m]5fYU`9`UVcfU]h]cbg

Df]cf]h]m]5fYUg	9`UVcfU]h]cbg
5`!` 5Vcf][ ]bU` UbX` HcffYg` GfU]h-g` UbXYf` 9Xi` W]h]cb	%z&z` ž( ž) ž* ž+ž, ž- ž%ž%ž%ž%ž&
6`!` 7`Uggfcca` `A` UbU[ Ya` Ybh	(
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8`!` @]h]fUW]h]UbX` Bi` a` YfUW]h	
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8YhU]g.

Hi fb]hjb`gYHjb[ . H\]g`Ugg][ ba Ybh]g`gi Va ]hYX`h`fci [ \ `Hi fb]hjb`UbX`ghi XYbhg`WUbb`gYY`Hi fb]hjb`g]a ]Uf]hm fYdcfmg"

5ggYgga Ybh&. `@YUfb]b[ `UbX`HYUW]b[ `F Ygci fWg

GHUfhXUHY`.

8YHU]`g. `l gY`U`Z]a `Ug`h`Y`VUg]c`ZXYa`cbghfU]b[ `U`W]h]W]`m]bZcfa`YX`UddfcUW]`h`c`Ya`VYXX]b[   
`X][`Ybci`g`\_`bck`YX[`Yg`z`d`Yfgd`YW]`Yg`UbX`\]g]c`f]Yg]`b]gi`ddc`fhc`ZW`ff]W`i`a`YUfb]b[ `ci`h`W`a`Yg`%)`\$\$`k`c`f`X`Z`)`a`]bi`h`j`j`XYc"

5XX]h]cbU`XYHU]`g.

5GG9GGA 9BH`&. `l g]b[ `fYgci fWg`h`c`gi`ddc`fh`h`UW]b[ `UbX`YUfb]b[

Di fdcgY#g.

f]E`9I`Ua`]bY`UbX`W]h]W]`m]f]ZYW]h]c]b`X][`Ybci`g`\_`bck`YX[`Yg`g]m]g]h]a`g`UbX`f]Ydf]Yg]Yb]h]c]bg]c]Z`W`a`a`i`b]h]Yg/

f]E]b]j`Ygh][`UH`UbX`W`a`a`Ybh]c]b`W`ff]W`Uf`UbX`d]YXU[`c[ ]W]`W`c]bg]XYf]U]h]c]bg]f]Y[`Uf]X]b[ `h`Y`i`g`Y`c`Z`   
`X][`Ybci`g`c]f]Yb]h]Y`f]Ygci`fWg`Zc]f`h]UW]b[ `UbX`YUfb]b[ ]b`h`Y`W]Ugg]f]c]c]a`/`UbX`   
f]E]E`XY]Y`cd`m]c]i`f`Z]J]a` ]]Uf]m]k`]h]z`UbX`U]V]j]m]h]c`i`g`Y`z`=>`H`Zc]f`h`Y`di`fdcgY`YXi`W]h]c]b]U`UggYgga`Ybh`

8i`Y`. :`f]`&`B`c]`!`K`\_`%(`K`Y][`h`.)`i` `@Yb[`h`. )`a`]bi`h`d]f]Yg]Yb]h]c]b`Z`%)`\$\$`k`c`f`X`g

H\Y`h]Ug\_.

H\]g`h]Ug\_]`g`XYg][`bYX`h`c`[ ]`j`Y`g]h`XYbhg`h`Y`c]d]c]f]h`b]m]h]c`W]h]W]`m]W`c]bg]XYf`k`h`U]h]g]`]b]c]j`YX`k`]h`i`g]b[   
fYgci`fWg`h`U]h]b]W]`XY`U`Z`W`g`c]b`X][`Ybci`g`f]Ydf]Yg]Yb]h]c]bg]z`\_`bck`YX[`Yg`z`\]Yf]h]U[`Y`UbX`#`c`f`\]g]c]f]Yg`   
H\]g`h]Ug\_]`U][`bg`k`]h`h`Y`5`#]G@`D]f]c]Z]Ygg]cb]U`G]H]b]X]U]f]X`&`( `z`k`h`W]`f]Yei` ]f]Yg`U`h`Y]U]W]Yfg`h`c`Ya`VYX`   
5Vc]f][`]b]U`UbX`H]c]f]Yg`G]h]f]U]h]g]`Ub]XYf`d]Yfgd`YW]`Yg]`b`h`Y`W`ff]W`i`a`"H\Y`h]Ug\_]`k`]"`d]f]c]j`]X]Y`g]h`XYbhg`k`]h`U`   
g]f]c]b[ `Z]c]b`X]U]h]c]b`h`c`W`c]bg]XYf`h`Y`Y`h]W]z`d]c`]h]W]z`UbX`g]c]W]U`^`g]h]W]`]a`d]`W]h]c]bg`h`U]h]U]f]Y`W`c]bb]Y]W]X`k`]h`   
h]g]i`b]XY]f]U\_]`b[ "

Hc`W`a`d`Y`h`h`h]g`h]Ug\_`""""

%`G]h`XYbhg`a`i`gh]W]c]cg]Y`c]b]Y`f]h]c]Z]h]Y`Z`c]k`]b[ `a`c]j`]Yg`Ug`h`Y`Z`W`g`c]Z]h]Y]f]f]Yg]d]c]bg]Y`H\Yg]Y`a`c]j`]Yg`   
U]f]Y`W`c]bg]XYf]YX`U]W]W]d]h]U]V]Y`UbX`gi`]h]U]V]Y`Zc]f]i`g]Y`]b`h][`h`g]W]c]c`W]Ugg]f]c]c]a`g]z`h`Y]m]W]c]i`X`V]Y`i`g]YX`]b`U`   
bi`a`V]Y`f]c]Z]X]Z]Y`f]Y]b]h]h]U]W]b[ `U]f]Y]Ug`f]Y`Y`<`]g]h]c]f]m]z`8`f]U]a`U]z`5Vc]f][`]b]U`G]h`X]Yg]z`5`f]z`@Y[`U`G]h`X]Yg]z`A`i`g]W]`5`   
h`Y`a`c]j`]Yg`U]f]Y`U]j`U]U]V]Y`h`f]c]i`[ `h`Y`]"`]V]f]U]f]m`

f]U`E`D]Y`f\_]`bg]z`F`"f]B]f]Y]W]c]f]E`f&\$\$`-`E`"4`dS` `@g]W]6`Sk`"5i`g]h]U]U.`F`c]U]X]g]h`c]k`:`]a`g`"

f]U`E`D]i`f]W]`z`@`"f]B]f]Y]W]c]f]E`f&\$\$`%`E`"4`d]S]h]W`W`U]S`"5i`g]h]U]U.`7`5`5`A`5`D]f]c]X]i`W]h]c]bg`"

f]U`E`D]Y]h]f]Y]g]Y]b]z`5`"f]B]f]Y]W]c]f]E`f&\$\$`\*`E`"L]S]U]Z`e`5`W]d]W\_]a`k]z`5i`g]h]U]U.`l`a`V]f]Y`U`9`b]h]f]U]ba`Y]b]h`

f]X]E`:`]f]h]z`>`/`:`;`f]U]b]h]z`G`"f]B]f]Y]W]c]f]E`f&\$\$`%`E`"5`C`,`;`V[]Y]W`age`5`g`f]g]d]S`^`f]W]f]Y]W`U]W`5i`g]h]U]U.`B`#]J`"

f]U`E`?`U]j`U]b]U[`h]z`5`"/`6]f][`[`g]z`5`"f&\$\$`\*`E`"A`h]W]z`W]d]W]e]W`f]W`,`3`h[]U]W]e]b]W]U]S`^a`:`;`V[]Y]W`age`[`U]S]d]W]d]S]f]a`"



5i ghfU]U. 'J ]W"

fz'8Y<YYfzF "/ '8 ]([ffzD"f&\$\*\$'L'FW 5S` aW6"5i ghfU]U. 'A UXA Yb'9bhYftU]ba Ybh'

f[ L'8YUbz6"f&\$% L'FZWT[YYWef WefSfW + " " kWSde SYa fa #) \*\*"5i ghfU]U. 'GWYYb'5i ghfU]U"

&"Mci 'k ]''cWUHY'fY'Yj UbhUWUXYa ]W]hYfUhi fY'hUh]g'fY'Yj Ubhlc'Wf]h]WU'`bX][ Ybci g'ghi X]Yg]b'mci f  
hYUW.]b[ 'UFYU''#h]g'Yi dYVWYX'hUhZcf'h]g'hUg\_'mci 'k ]''fYZf'hc'U'a ]b]a i a 'cZ]j Y'f) L'UWUXYa ]Wgci fW'g!  
[ c] Yfba YbhYdcfthg#dc']W]Yg'UbX'k YVdU[ Yg'UfY'bc]h]j ]Yk YX'Ug'WYX]V'Y'UWUXYa ]Wgci fW'g"

' "i gY'hY'hY'']hYfUhi fY'hc'bj Ygh[ UHY'gi [ [ Ygh]cbg'fY[ UfX]b[ '[ ccX'dfUW]W''] gY'cZfYgci fW'g]b'hY  
WUggfccca "'H\]g'g\ci 'X'ZcW'g]b'dUfh]W'Uf'cb'hY'W'ff]W'Uf'UbX'dYXU[ c [ ]WU'dfUW]W'g'hUhYUWXYfg  
a i ghWcbg]XYf]b'W'cbYW]cb'k ]h'k \Uhig\ci 'X'VY'Uj c]XYX'UbX'k \n'z'Vi h]a dcfUbh'n'z'k \UhWU'VY'XcbYz  
\ck'z'UbX'k \m'

(' "X]Ybh]ZmUh'YUghcbY'gi ]hU'Y'Y'Ya YbhicZ'hY' 'YUfb]b[ 'UFYU'ghUHYa Ybh'Zca 'hY'5'7'5'F'5'7'fcgg!  
7i ff]W' i a 'Df]cf]h]Yg'hUh]g'fY'Yj Ubhlc'mci f'a U]b'hYUW.]b[ 'X]gW]d']bY'fY"[ "'9b[ ']g\z'A U'h'z'GW]YbW'L'"5b  
]a dcfUbhY'Ya YbhicZ'h]g'hUg\_']g'mci 'XYa cbgfhU]b[ 'hY'UV]']mhc'YghUV]g\ 'U'c [ ]WU'UbX'fY'Yj Ubh  
']b\_'VY'hk YYb'hY'Zcfa U''YUfb]b[ 'ghUHYa Ybh]UbX'hY'i gY'cZ'hY'Z]a ']b'hY'WUggfccca "'H\Y'7'7'D'g'WU'VY  
UW]W'ggYX'Uh

\h]dg.#k k k "Ui ghfU]UbW ff]W' i a "YXi "Ui #z%\$!W ff]W' i a #f'cgg!W ff]W' i a !df]cf]h]Yg#Uvcf][ ]bU!UbX!hc ffYg!  
ghfU]h]g'UbXYf!\]g]hcf]Yg!UbX!W' h' fYg#

) "'DfYdUfY'U%) \$\$'k cfX'Vf]YZ'hUhdfcj ]XYg'U'W'cbW]gY'gi a a UfmcZ\_Ym]ggi Yg'hc'W'cbg]XYf'k \Yb' ]bW' X]b[  
h]g'fYgci fW'Zcf'hYUW.]b[ 'UbX''YUfb]b[ ' ]b'gi ddcfhicZ'hY'YUfb]b[ 'ci h'W'a Y'mci ' ]XYbh]Z]YX"

\*"'H\Y'chYfY'Ya YbhicZ'hY'hUg\_']bj c]j Yg'XYj Y'cd]b[ 'U' 'a ]bi h'j ]XYc!V'c[ "' : cf'h]g'z'mci 'g\ci 'X  
W'cbg]h' W'hY'W]d'Ug' ]ZchYf'hYUWXYfg'k YfY'mci f'Ui X]YbW'"H\Y'ZcW'g'cZ'hY'j ]XYc'W'a dcbYbh'hYb'z]g'hc  
XYj Y'cd'U'dfcZ]gg]cbU'fYgci fW'hUh]bZcfa g'chYf'hYUWXYfg'\ck'hc'YZZYW]j Y'mUbX'Wf]h]WU'mi gY'hY  
Z]a 'hc'gi ddcfha YY]b[ 'hY''YUfb]b[ 'UFYU'ghUHYa Ybhg"

. 'D'YUgY'bc'hY'cbY. 'h]g'a i ghbchVY'mci 'fYUX]b[ 'hY'Vf]YZz]j]i fY'hc'UX\YfY'hc'h]g'fYei ]fYa Ybhk ]'  
g][ b]Z]W]bh]m]a dUW]cb'mci f'c] YfU''fYgi 'hZcf'h]g'hUg\_'  
'D'YUgY'bc'hY'hc.c.'?YYd']b'a ]bX'hUh'hY'i gY'cZ'hYgY'Z]a g' ]b'\][ \]gW'cc''hYUW.]b[ 'UbX''YUfb]b[  
W'cbh]h]g'a Um]bj c]j Y'gY'YW]j Y'mig\ck ]b[ 'cb'm)!%\$'a ]bi h'g'cZ'hY'Z]a "

Gi Va ]gg]cb'bc'hY'g.Hk c'W'a dcbYbh]g'K f]hYb'Vf]YZgi Va ]hYX'hc'Hi fb]h]b'z'UbX') !a ]bi h'j ]XYc'V'c[  
i d'cUXYX'hc'A ccX'Y

Hi fb]h]b'gYh]b[ . H\]g'Ugg][ ba Ybh]g'gi Va ]hYX'h'fci [ \ 'Hi fb]h]b'UbX'gh XYbh]WU'gY'Y'Hi fb]h]b'g]a ]'Uf]m  
fYdcfthg"



GdYWZjW7 f]hYf]U	1fŁ ————— 2fŁ				
<p>Gf]i W]i fY'UbX'cf[ Ub]nUh]cb'cZfYgdcbgY</p> <ul style="list-style-type: none"> <li>• 5 'WYUf'UbX'c[ ]W]ghfi W]i fY'UUh]bWi XYg'Ub']bfcXi W]cbž'VcXnž UbX'WčbWi g]cb'fUg'dYf'l B GK 'k f]h]b[ 'i ]XYgŁ</li> <li>• 7 'Uf]m]UbX'Wč\YfYbW'cZcf[ Ub]gUh]cb'cZ]XYUg'k ]h]b dUfU[ fUd\g'UbX'UWčgg'hY'fYgdcbgY</li> </ul>					
<p>DfYgYb]Uh]cb'cZfYgdcbgY'UWčfX]b[ 'hc'Uddfcd]UH'UWXYa ]WUbX' ]b[ i ]gh]Wčbj Yb]cbg</p> <ul style="list-style-type: none"> <li>• 5 Ww fUH'UbX'hčfci [ \ 'UH'bh]cb'hc'k f]h]b'hYi hi U'fYei ]fYa Yb]g, gYb]bW'ghfi W]i fY/] cW]Vi 'Ufm'gdY''b[ /di bW] Uh]cb/[ fUa a Uf</li> <li>• 7 'Uf]mž'Uddfcd]UH'YbYgg'UbX'YZYW]j YbYgg']b'hYfa g'cZ dYfgi Ug]j Y#UbU'm]W]#fYZYW]j Y'k f]h]b[</li> <li>• 7 'Uf]mž'Wčbg]gh'YbW]iUbX'Uddfcd]UH'YbYgg'cZUWXYa ]W]k f]h]b Wčbj Yb]cbg, 'ei ch]b[ /dUfUd\ fUg]b[ /W]h]b[ 'gci fW]g#bZcfa Uh]cb/ UbX'hY'fYZ'fYbW'']gh</li> <li>• 5X\YfYg'hc'k cfX''Yb[ h. ]bWi g]j Y'cZfYZ'fYbW'']gh'k ]h]b'%'\$i cj Yf# bXYf</li> <li>• 7 cffYW]iUbX'hčfci [ \ 'fYZ'fYbW]b[ 'UWčfX]b[ 'hc'5D5 '*h'YX]h]cb g]mY' [ i ]XY</li> </ul>					
; YbYfU'Wča a Yb]g#YWča a YbXUh]cbg'Zcf'bYi h]ja Y.'					

@YW]i fYf

F YWča a YbXYX.' ' ' #&\$'fi @DG'7F'8B'<8Ł

k Y][ \h]b[ ' : &\$i

I BGK 'G7 < CC @ 'C: '98I 75H€B 'FI 6F = # 998657? 'G < 99H'

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5ggYgga YbhHUg\_ '@YUfb]b[ 'UbX'HYUW]b[ 'F Ygci fWg

GdYWZ]W7 f]hYf]U	''fL ————— 2fL				
<p>I bXYfghUbX'cZh'Y'ei Ygh]cb'cf']ggi Y'UbX'h'Y'_Ym'Wc'bW'dhg ]bj'c'j'YX</p> <ul style="list-style-type: none"><li>• I bXYfghUbX]b[ 'cZh'Y'fUg_'UbX']hg'fY'Uh]cbg\]d'hc'fY'Yj Ubh'UfYUg cZgW'cc']b[</li><li>• 7'Uf]m'UbX'UWV'fUWn]b'i gY'cZ'_Ym'h'fa g'UbX'Wc'bW'dhg']b fY'Uh]cb'a Y'h]b[ 'h'Y'dfcZ'gg]cbU'f'Yei ]fYa Ybhg'cZ5'HG@ ghUbXUfX'&amp;'(</li></ul>					
<p>8Yd'h'cZ'Ub'Um]g'UbX'#'f'W]h'e'i'Y']b'f'Yg'dc'bg'Y'h'h'Y'fUg_</p> <ul style="list-style-type: none"><li>• I bXYfghUbX]b[ 'cZf'Y'j Ubh'W'ff]W'f'g'g'YXU[ c']W'z'h'Y'c'f'Y]W' UbX'dc']h]W'Wc'bW'f'bg'f'f'UfX]b[ 'gh'UbX'UfX'&amp;'(</li><li>• 9b[ U[ Ya Ybhk']h'gc'Wc'g'g'f]W'Wc'bW'f'bg']a dUW]b[ 'cb'&amp;'(</li><li>• 7'Uf]m'UbX'X'Y'd'h'cZ'Y'd]Ub'h]cb'f'Y[ UfX]b[ 'h'Y' fY'Wc'a' a'YbXU'h]bg'Z'f'h'UW]b[ 'UbX'YUfb]b[</li><li>• Gmb'h'Yg]g]b[ 'cZ'_bck'YX[ Y'UbX'i bXYfghUbX]b[ ']'b'gi ddc'fh'cZ' W'YU'h]b[ 'Ub'UW'X'Ya ]W'V]Y'Z'Ub'X'j ]X'Y'c'd'f'Y'g'Y'bh'U'h]cb</li></ul>					
<p>: Ua ]']Uf]m'k ]h'UbX'fY'Yj bW'cZ'dfcZ'gg]cbU'UbX'#'f'fYgYUfW'X ]h'Y'f'U'h' fY'i gYX'hc'gi ddc'fh'fYg'dc'bg'Y</p>					



Gi Va ]gg]cb`cZ5ggYgga YbhHUg\_g

Gh XYbng`UfY`YI dYW`X`hc`di h`h`Y]f`bUa Yg`UbX`gh XYbhbi a VYfg`cb`Yj YfmdU[ Y`cZ`h`Y]f`Ugg][ ba Ybng"

Hi fb]h]b`Gi Va ]gg]cb







- i bXYfghUbx'mci f'f][ \hg'UbX'fYgdcbg]V] ]hYg'Ug'U'gh XYbhUhl BGK
- VY'Uk UfY'cZd'U[ ]Uf]ga ž'Wc'dmf][ \hž' BGK 'Gh XYbh7cXY'cZ7cbXi W'Ubx'5W'W'dhUV'Y'I gY'cZ I BGK '⇒H'F'Ygci f'W'g'Dc`]W'h
- VY'Uk UfY'cZ'Y'ghUbxUfXg'cZVY\Uj ]ci f'YI dY'W'X'cZYj Yfmcby' ]b'h'Y'I BGK 'W'a a i b]m
- `cW'W'h'gYfj ]W'g'UbX' ]bZ'fa U]cb'UVci hl BGK 'UbX'I BGK '@]VfUfm

Gca Y'cZ'Y'gY'UfY'Ug'k ]`VY'ZJa ]]Uf'hc'mci ž'c'h'Yfg'k ]`VY'byk "; U]b]b[ 'U'gc`X'i bXYfghUbx]b[ 'cZU`'h'Y fY'U'Y'X'UgdY'W'g'cZ9@G9'k ]`'Y'd'mci 'a U\_Y'h'Y'a cghcZmci f'gh X]Yg'Uhl BGK "

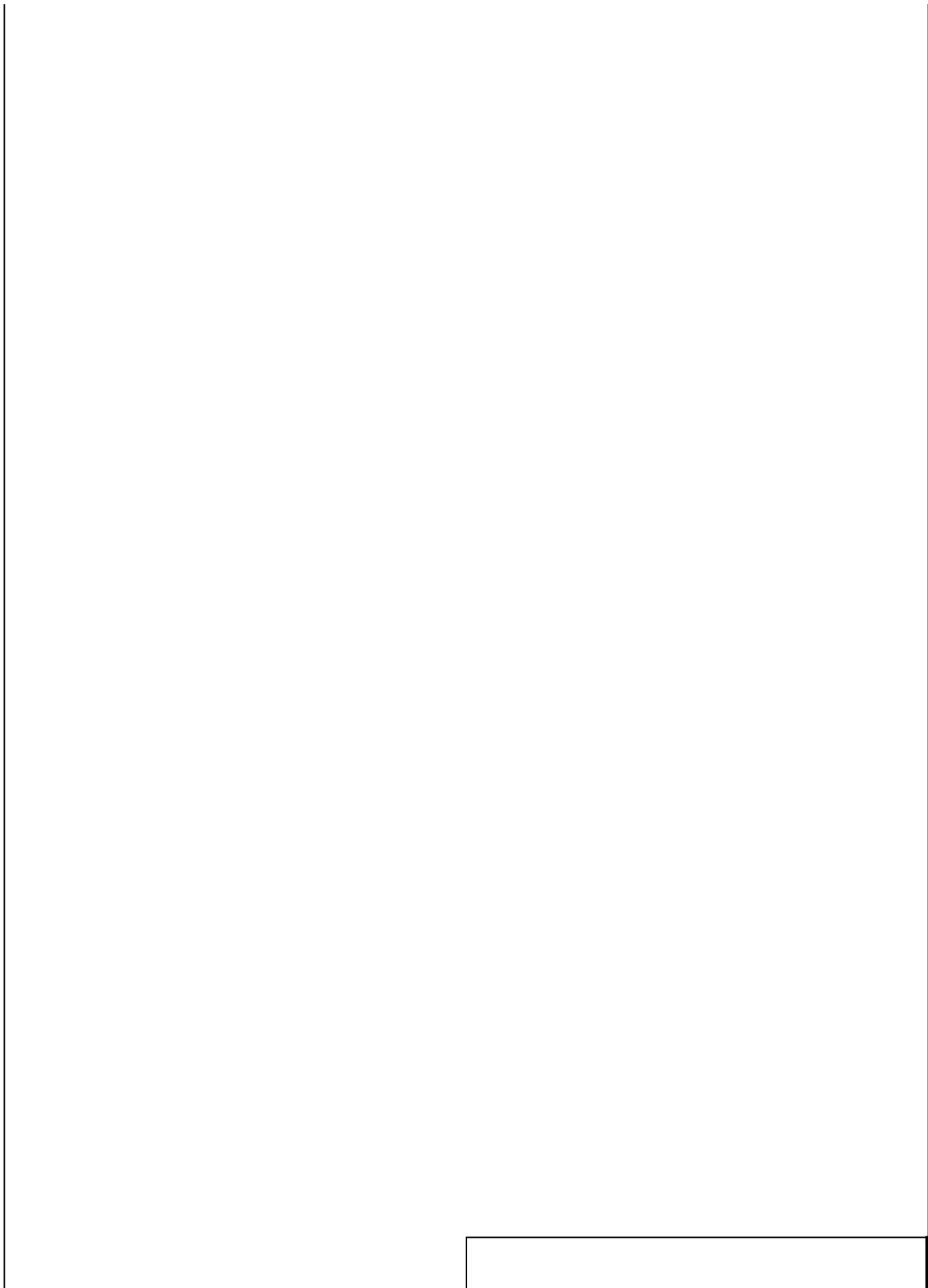
[f\hd.#gi.VYWfi\]XYg"\]VfUfmi bkg "YXi "Ui #\]gY#UVci h' \]gYt](#)

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H]a YhUV`Y`

8UH	HmdY	7cbhYbh
K YY_% '&' '>i`m!'&- '>i`m		7`Ugg`VY[ ]bg`]b`K YY_&
K YY_&." '\$>i`m!') 5i [i gh	@YWi fY	@YWi fY% '5b`]bfcXi W]hcb`hc`h`Y`UbXgWUdY`cZ` `bX][ Ybci g`YXi W]hcb`  7ci fgY`k`Y`W`a`Y`UbX`c`j`Yfj`]Yk`" `b`h`g`Y`W`h`f`Y`z`k`Y` k`]"`]bfcXi W`h`Y`dc`]W`h`W`ff]W`i`a`UbX` dYXU[ c[ ]W`U`W`U`Yb[ Yg`UbX`c`ddcfh`b]h]Yg` YbW`i`b`h`f`Y`X`]b`h`Y`UbXgWUdY`cZ`bX][ Ybci g` YXi W]hcb`-`k` \m]g`h`g`W`i`fgY`bck`W`a`di`gcfm]b` h`U`W`Y`f`Y`Xi W]hcb`3`K` \U`h`h`g`W`i`fgY`k`]"`UbX`k`]"` bchUXXfYgg3`
	F YUX]b[	GhUbYgVm/ `H`ca Ug`f7` \ `) `cZgYh`h`i` h`  'GYY]b[ `h`Y`]b]`g]V`Y`""
K YY_".`*`5i [i gh!`%& 5i [i gh	@YWi fY	@YWi fY`&.`h`Y`dc`]W`h`W`b`h`h`i` `W`cg]b[ ` ` [ Udg` UbX`W`ff]W`U`f`df]cf]h]Yg` ;`i`YghdfYgYb`h`f.`5`b`h`cbm;`U`i`nnc`UbX`@Y]gU` <]W`g`f`b`V`cf][`]bU`9`Xi W]hcb`i`b]h`8`YdUf`h`a`Yb`h`c`Z` 9`Xi W]hcb`  H`g]k`YY_`k`Y`k`]"`Z`f`h`Y`f`Y`i`d`c`f`Y`Y`Xi W]hcb`dc`]W`Y`g` h`U`h`g`U`d`Y`b`X][ Ybci g`YXi W]hcb`" `b`d`U`f`h`W`U`f`z`h`Y` 'Y`W`h`f`Y`k`]"`X]g`W`g`g`W`b`W`f`b`g`]"`b`_`Y`X`k`]h`Y`Z`c`f`g`h`c` 'W`cg`Y`h`Y`U`W`X]j`Y`a`Y`b`h`[`U`d`z`Y`a`V`Y`X`X]b[ `h`Y`7`f`c`g`g`! 7`i`ff]W`U`f`df]cf]h]Yg`z`UbX`h`Y`5`#`G`@`D`f`c`Z`Y`g`g]cbU` H`Y`U`W`Y`f`G`h`U`b`X`U`f`X`g`-`k` \U`h]g`h`Y`dc`]W`h`W]a`U`h` Ug_]b[ `c`Z`m`c`i`U`g`U`Z`h`i`f`Y`h`U`W`Y`f`3`
	F YUX]b[	K` \U`h`a`Ub`/`8`i`b`W`b`f`W`X` ` `cZgYh`h`i` h`  '@YUfb]b[ `Z`ca`h`Y`d`U`g`h`
K YY_(`.`%`5i [i gh!`%` 5i [i gh	@YWi fY	@YWi fY`"`. `7`ca`]b[ `h`c`_`bck`U`X]j`YfgY` W`a`a`i`b]m` ;`i`YghdfYgYb`h`f.`@U`i`f`Y`b`H`rb`Ub`f`D` \ `8`G`h`X`Y`b`h`z` I`B`G`K`z`:`U`W`h`m`5`f`h`g`/`G`c`W]U`G`W]Y`b`W`g`  H`g]k`YY_`k`Y`k`]"`W`b`g]X`Y`f`h`Y`W`b`W`d`h`c`Z]X`Y`b`h]m` UbX` \`ck`h`h]g`W`b]`ja`d`U`W`h`c`b`h`Y`U`W`X]b[ `UbX`Y`U`fb]b[` ]b`h`Y`W`U`g`g`f`c`c`a`" `A`c`f`Y`g`d`Y`W`Z]W`h`n`z`h`Y`z`c`W`g`c`Z`h`g` k`YY_`k`]"`V`Y`c`b`X`Y`j`Y`c`d]b[ `U`b`i`Ub`W`X` i`b`X`Y`f`g`h`U`b`X]b[ `c`Z`h`Y`X]j`Y`f`g`Y`z`d`i`f`U`]g`Y`X`z` W`b`h`i`h`U`]g`Y`X`z`UbX`X`r`b`U`a`]W`b`X][ Ybci g`]X`Y`b`h]h]Y`g` ]b`g`W`c`c`]b[ `h`c`X`U`m`-`k` \m]g`]h]a`d`c`f`h`U`b`h`c` i`b`X`Y`f`g`h`U`b`X`]X`Y`b`h]m`k`c`f`_`U`g`V`Y]b[ `Z`i`]X`Ub`X`



<p>%*`GYdHya VYf</p>		<p>dYfgdYWHj Ygžk \Uhlc`YUfbžUbX`X]ZZfYbhk Umg cZ`YUfb]b[</p> <p>; i YghdfYgYbhYf. F i VYY`A WA Ubi g`fA cfYY`&lt;][ \ GVWcc`Ł</p> <p>⊕`h]g`k YY`_g`YWH fYžk Y`k ]`W]hW`mWcbg]XYf`hY d`UW`cZ`⊕X][ Ybci g`dYfgdYWHj Yg`k ]h]b`dc`]WmUbX W ff]W`i a`XcW`a Ybhgžk ]h`Uj ]Yk`lc`ei Yghcb]b[ h`Y`X]Z]W`h]Yg`UbX`dcgg]V`]h]Yg`Zcf`bcb!⊕X][ Ybci g YXi WUhc fg`lc`Ya VYX`⊕X][ Ybci g`_bck`YX[ Ygž \]ghcf]Ygž`UbX`k Umg`cZ`_bck`]b[ ]b`H/ @`-`k` \mUfY ⊕X][ Ybci g`dYfgdYWHj Yg`UbX`k Umg`cZ`_bck`]b[ `cZ`Yb g]a`d`]ZYX`UbX`Wc!cdhYX`lc`dfcj ]XY`U`cbY`g]nY`Z]hg`U` UddfcUW`'Zcf`h`Y`YXi WUhc b`gmg`h`a`3`K` \UhUfY`h`Y ]a`d`]WUhc]bg3</p>
	<p>F YUX]b[</p>	

<p>K YY_%. %C WtVYf!'+ C WtVYf</p>	<p>@YWi fy</p>	<p>@YWi fy'-. 'HYUWX]b[ 'UbX`YUfb]b[ ]b`hY`W`hi fU` ]bhYfZUWY</p> <p>H\]g'k YY_'hY`YWi`fy`k`j`ZcW`g`cb`hY`W`hi`fU` ]bhYfZUWY`z`U`W`bW`dh`h`U`h`W`b`\`Y`d`k`]h`XY`d`Y`b]b[ ci`fi`bXY`fg`h`UbX]b[ `cZ`h`Y`W`e`a`d`Y`i`]h`Y`g`UbX dcgg]V]h`Y`g`c`Z`Y`a`V`Y`X`X]b[ `X]Y`b`ci`g`_`b`c`k`Y`X`[`Y`g` ]b`Z`c`f`a`U`Y`X`i`W`h`c`b`U`g`Y`h]b[ `g`-`k`\`m]g` i`bXY`fg`h`UbX]b[ `UbX`Y`b`[`U`[`]b`[`k`]h`h`Y`dc`]h`W`g`c`Z` _`b`c`k`Y`X`[`Y`W`b`g`h`i`W`h`c`b`]a`d`c`f`U`b`h`Z`c`f`m`c`i`3</p>
<p>K YY_%%; 'C WtVYf!'%( 5Vcf][ ]b`C`Y`g`a`Y`]b`H`V`@</p>	<p>@YWi fy</p>	<p>A`W`b`[`W`d`]`c`b`g`U`b`X`a`U`g`i`b`X`f`g`h`UbX]b[ `g`U`V`c`i`h` '9a`V`Y`X`X]b[ `X]Y`b`ci`g`?`b`c`k`Y`X`[`Y`g`</p> <p>H\]g'k YY_`g`h`h`c`f]U`k`j`h`U`Y`d`U`W`Y`]b`h`Y`J`]f`h`U` F`Y`U`]m`U`V`]b`h`Y`G`W`X`c`c`c`Z`A`]b]b[ `9`b`[ `]b`Y`Y`f]b[ `z`U`h` m`c`i`f`b`c`f`a`U`h`h`c`f]U`h`a`Y`"D`Y`U`g`Y`g`Y`Y`A`c`c`X`Y`Z`c`f` X`Y`h`U`]g`"</p> <p>@YWi fy`%\$. `F`U`W`]g`a`z`h`c`_`Y`b]g`a`z`U`b`X` 5`V`c`f][ ]b`C`Y`g`a`Y`]b`H`V`@</p> <p>H\]g'k YY_`k`Y`Y`i`U`a`]b`Y`g`W`X`c`c`]b[ `d`f`U`W`]g`h`U`h` W`c`b`h`f]V`i`h`Y`h`c`d`f`Y`g`Y`f`]b[ `U`b`X`d`f`c`h`Y`W`]b[ `W`c`b`W`f`b`g`i`h`c` X`c`k`]h`f`U`W`z`U`b`X`k`Y`U`g`c`k`j`"cc`_]b`h`c`g`a`Y`c`Z`h`Y` a`]g`W`c`b`W`d`h`c`b`g`U`b`X`a`]g`i`b`X`Y`f`g`h`UbX]b[ `g`U`V`c`i`h` X]Y`b`ci`g`_`b`c`k`Y`X`[`Y`g`z`\]g`h`c`f]Y`g`U`b`X`\`Y`f`h`U`[`Y`h`U`h` W`U`b`]b`Z`i`Y`b`W`h`Y`U`W`X]b[ `U`b`X`Y`U`f`b]b[ `d`f`U`W`]g`h`U`h` d`f`c`V`Y`a`U`h`W`k`U`m`g`-`X`Y`g`d]h`Y`h`Y`[`c`c`X`]b`h`b`h`c`b`g`c`Z` a`U`b`m`z`k`\`m`X`c`\$</p>

	]bWi XY`cWUhb[ `mci fgY`Z]b`h\Y`UbXgWUdY`cZ -X][ Ybci g`YXi WUhcZ`UbX`UfhW`Uh]b[ `mci f d\]cgcd\]WU`Z`Yh]WU`UbX`dc`]hWU`j ]g]cb`Zcf`k cf_]b[ ]b`h\Y`UbXgWUdY`cZ-X][ Ybci g`YXi WUhcZ`-k \Uh gcfhcZU`hYUWXYf`tc`mci `k Ubhlc`VY3
F YUX]b[	@Ja dYfhfW`*Ł '6YWta ]b[ `U`gcV]U`mi↑ ghYUWXYf`
5ggYgga Ybh	5ggYgga Ybh&`Xi Y` f]XUm&`Bcj Ya VYf`) da



@ck Yž? "/ 'M b\_UdcfUžH" f&\$% 'H\Y ]bW g]cb'cZ5Vcf[ ]bU'UbX'HcFFYg'GfU]h-g'UbXYf'WcbhYbh]b'H\Y  
5i gffU]Ub'BUh]cbU'7i fffW'ia . '5'W'h fU'žWc [ b]h]Y'UbX'gcV]c!dc'h]WU'Yj U'i U]cb"'5gcd[Ug'g\_  
BvdebWUf[hWēž' ' f!ž%&%"

A Ul k Yž>" f&\$% ' 'H\Y ]bW g]cb'cZ5Vcf[ ]bU'UbX'HcFFYg'GfU]h-g'UbXYf'WcbhYbh]b'H\Y  
5i gffU]Ub'BUh]cbU'7i fffW'ia . '5'W'h fU'žWc [ b]h]Y'UbX'gcV]c!dc'h]WU'Yj U'i U]cb"'5gcd[Ug'g\_  
BvdebWUf[hWēž' ( 'fl ž&+!' , "

A ]bYfž<" f&\$% ' 'H\Y ]bW g]cb'cZ5Vcf[ ]bU'UbX'HcFFYg'GfU]h-g'UbXYf'WcbhYbh]b'H\Y  
5i gffU]Ub'BUh]cbU'7i fffW'ia . '5'W'h fU'žWc [ b]h]Y'UbX'gcV]c!dc'h]WU'Yj U'i U]cb"'5gcd[Ug'g\_  
BvdebWUf[hWēž' ( 'fl ž&+!' !% \$"

BU\_UhUžA " f&\$% ' 'H\Y ]bW g]cb'cZ5Vcf[ ]bU'UbX'HcFFYg'GfU]h-g'UbXYf'WcbhYbh]b'H\Y  
5i gffU]Ub'BUh]cbU'7i fffW'ia . '5'W'h fU'žWc [ b]h]Y'UbX'gcV]c!dc'h]WU'Yj U'i U]cb"'5gcd[Ug'g\_  
BvdebWUf[hWēž' ( 'fl ž&+!' !% \$"

Ck Ybgž? " f&\$% ' 'H\Y ]bW g]cb'cZ5Vcf[ ]bU'UbX'HcFFYg'GfU]h-g'UbXYf'WcbhYbh]b'H\Y  
5i gffU]Ub'BUh]cbU'7i fffW'ia . '5'W'h fU'žWc [ b]h]Y'UbX'gcV]c!dc'h]WU'Yj U'i U]cb"'5gcd[Ug'g\_  
BvdebWUf[hWēž' ( 'fl ž&+!' !% \$"

DYfgcžH"/ <Unk UfXž7 " f&\$% ' 'H\Y ]bW g]cb'cZ5Vcf[ ]bU'UbX'HcFFYg'GfU]h-g'UbXYf'WcbhYbh]b'H\Y  
5i gffU]Ub'BUh]cbU'7i fffW'ia . '5'W'h fU'žWc [ b]h]Y'UbX'gcV]c!dc'h]WU'Yj U'i U]cb"'5gcd[Ug'g\_  
BvdebWUf[hWēž' ( 'fl ž&+!' !% \$"

Df]WYž? " f&\$% ' 'H\Y ]bW g]cb'cZ5Vcf[ ]bU'UbX'HcFFYg'GfU]h-g'UbXYf'WcbhYbh]b'H\Y  
5i gffU]Ub'BUh]cbU'7i fffW'ia . '5'W'h fU'žWc [ b]h]Y'UbX'gcV]c!dc'h]WU'Yj U'i U]cb"'5gcd[Ug'g\_  
BvdebWUf[hWēž' ( 'fl ž&+!' !% \$"

F i Xc'd\žG" f&\$% ' 'H\Y ]bW g]cb'cZ5Vcf[ ]bU'UbX'HcFFYg'GfU]h-g'UbXYf'WcbhYbh]b'H\Y  
5i gffU]Ub'BUh]cbU'7i fffW'ia . '5'W'h fU'žWc [ b]h]Y'UbX'gcV]c!dc'h]WU'Yj U'i U]cb"'5gcd[Ug'g\_  
BvdebWUf[hWēž' ( 'fl ž&+!' !% \$"

GU'YfžD"/ 'A Ul k Yž>" f&\$% ' 'H\Y ]bW g]cb'cZ5Vcf[ ]bU'UbX'HcFFYg'GfU]h-g'UbXYf'WcbhYbh]b'H\Y  
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BvdebWUf[hWēž' ( 'fl ž&+!' !% \$"

GuffUž7 " f&\$% ' 'H\Y ]bW g]cb'cZ5Vcf[ ]bU'UbX'HcFFYg'GfU]h-g'UbXYf'WcbhYbh]b'H\Y  
5i gffU]Ub'BUh]cbU'7i fffW'ia . '5'W'h fU'žWc [ b]h]Y'UbX'gcV]c!dc'h]WU'Yj U'i U]cb"'5gcd[Ug'g\_  
BvdebWUf[hWēž' ( 'fl ž&+!' !% \$"

H\ca dgcbž; " f&\$% ' 'H\Y ]bW g]cb'cZ5Vcf[ ]bU'UbX'HcFFYg'GfU]h-g'UbXYf'WcbhYbh]b'H\Y  
5i gffU]Ub'BUh]cbU'7i fffW'ia . '5'W'h fU'žWc [ b]h]Y'UbX'gcV]c!dc'h]WU'Yj U'i U]cb"'5gcd[Ug'g\_  
BvdebWUf[hWēž' ( 'fl ž&+!' !% \$"



⇒ U[ Y'7 fYX]h

? H\ca dgcbž&\$%\*

7F ⇒7CG

7F ⇒7CG'Dfcj jXYf'7cXY.'\$\$\$- ;