



7ci fgY`Cj Yfj JYk

GHJZZ7cbHJW`8YHU`g

7cbj Ybcfg

B Ua Y	9a Uj`	5j Uj`UVj`]m	@cWJhcb	D\cbY
8f`@gU`HfU\Ujf	@`hfU\U]f4 i bgk "YXi "Ui	6mUddc]bħa Ybh	F cVYfh K YVghYf 6i ]X]b[ ž@Yj Y` &žF cca `&&*	- ' , ) ) \$%% Vi hVYghc Ya Uj`

GWcc`7cbHJW`bZcfa Uhjcb

GWcc`cZħY`5fng`UbX`A YX]U

F cca ` ` %&ž@Yj Y` žF cVYfhK YVghYf`6i ]X]b[ `fl %Ł

D\cbY. `f\$&Ł- ' , ) `( , ) \*

9a Uj`. [gUa 4 i bgk "YXi "Ui](#)

K YVg]ħ. [k k k "Ufng"i bgk "YXi "Ui #gUa](#)

H\Y`GWcc`cZħY`5fng`UbX`A YX]U`k ci `X`]\_Y`ħ`F YgdYW`m5W\_bck`YX[ Y`ħY`HfUX]hcbU`7i għcX]Ubgž  
ħY`6YXY[ U`fP`Ybg]b[ ħcb`WJa di gŁž; UX][ U`f7`]mUbX`5fh/`8Yg][ b`7 Ua di gYgŁ`UbX`ħY`B [ i bbUk U`  
dYcd`Y`f5i ghfU]Ub`8YZYbW` : cfW`5WUXYa m]b`7 UbVYffUŁ`cZħY`UbXg`k \YfY`YUW`WJa di g`cZI`BGK`]g  
`cWJħYX"

7ci fgY'8YHJ]`g

7fYX]h'Dc]bHg '\*`

Gi a a UfmcZ\Y'7ci fgY

: ]a 'gWYYb]b[ g'dfcj ]XY'hY'ZcW'g'cZ'hY'W'e' fgY'UbX'k ]'hU\_Y'd'UW'YUW'k YY\_'UZ'f'hY'Y'W'h fY": ]a g  
\\Uj Y'VYYb'gY'Y'W'X ]b'cfXY'f'hc'XYa'cbghfU'h'\\ck'h'Y'UYgh'h'Y'h]W'g'cZ'hY' [ ]j Yb [ YbfY'\\Ug'XYj Y'cdYX'g]bW  
h'Y' ]b] Ybh]cb'cZ'W]bYa U ]b '% - ) 'UbX'hc' ]b'f'cXi W'gh'XYbh'g'hc'h'Y'k cf\_'cZ'hY'a cghg[ [ b]Z'W]bhU'f]ghg ]b'h'Y  
fUX]h]cb"

@Y'W'h fYg'U'fY'XYg][ bYX'hc'dfcj ]XY'U'W'c'b'h'i h'Z'f'Z'a 'gWYYb]b[ g'V'm'f'Y'Z'f'f]b[ 'hc'h'Y']a dU'W'hc'Z'W'h'i fU'UbX  
]bgh]h' h]cbU'Z'W'hc'fg'cb'U' [ ]j Yb'W'c'a YX]Ub'g'k cf\_'UbX'V'm'Z'c'W'g]b[ 'cb'h'Y'gdY'W]Z'W'W'c'a ]W'gh'f'U'h' [ ]Yg  
XYj Y'cdYX'V'm'h'Y'W'c'a YX]Ub' ]b'f'Y'g'd'c'g'Y'hc'h'Y'a "'@Y'W'h fYg'k ]'U'g'c'gi [ [ Yghk U'm]c'Z'h'Y'c'f]n]b[ 'gi W  
gh'f'U'h' [ ]Yg" H\\Y'mik ]'h'i g ]XYbh]Z'm'\\ck 'd'U'f]h]W 'U'f'Z'a g'W'c'b'f]V'i h'Y'hc'h'Y' [ YbfY'Z'YI d'U]b'f'Y'Yj Ub'h'W'c'b'W'd'f'g'z  
UbX'X]g'W'gg'U'gd'Y'W'g'c'Z'W]bYa U'h]W'Z'c'fa 'UbX'g'h'm'Y"

H\\Y'V'U'g]g'c'Z'h'hc'f]U'g'k ]'V'Y'g'h'XYbh'Y'X'X]g'W'gg]cb" 'h'U'X'X]h]cb'hc'Z'W]h]h]b[ 'X]g'W'gg]cb ]b'U'XYg][ b'U'h'X  
k YY\_ž'gh'XYbh'g'k ]'V'Y'U'gg'Y'gg'Y'X'cb'h'Y]f'd'U'f]h]W]d'U'h]cb ]b'h'hc'f]U'g": cf'Z'f'h'Y'f'XY'f]g'c'Z'\\ck'gi W  
d'U'f]h]W]d'U'h]cb'k ]'V'Y'U'gg'Y'gg'Y'X'g'Y'5'gg'Y'gga Ybh'H'U'g\_" "Hi'hc'f]U'g'U'f'Y'h'i g'XYg][ bYX'hc'Ybgi fY'h'U'h  
gh'XYbh'XYj Y'cd'h'Y'W]d'U'W]m'hc'h ]b\_]b'XY'd'Y'b'XYbh'm'U'V'c'i h'h'Y'W'e'i fgY'a U'h'f]U'UbX'W'c'a Y'hc'W'U'gg  
UX'Y'e'i U'h'm'd'f'Y'd'U'f'Y'X'hc'X]g'W'gg ]h'


cb`hY]f`WUgg`fcca`Wcbhf]Vi`hcb`"9UWX`dUfhcZ`hY`UggYgga`Ybhk`]"`UhfUW%\$i`cZ`hY`cj`YfU`"a`Uf`\_`Zc`f`hY`  
Wci`fgY`"⊖`UXX]h]cb`hc`gi`Va`]h]b[`U`df]bhc`i`hcZg`]XYg`j`]U`Hi`fb!]h]bž`gh`XYb`hg`a`i`ghgi`Va`]hU`VfYU`Xck`b`cZ`



	GWYYb]b[	DYHYf`GY`Yfgž8f`GfUbb[ Y`cj Yžcf`\ck `≡`YUfbYX hc`ghcd`k`cfff]b[ `UbX`cj Y`h\Y`Vca V`f%`*(łX]f" GHub`Ym?`i Vf]W_ž`-%a ]bg"  K ccXm5`Ybž`NY`][ `f%` , (łX]f" K ccXm5`Ybž`-% a ]bg"
K YY_`-`.'&+`>i`m!`" %>i`m	@YWi`fY	7ca`YXm`UbX`Gh`d]X]m
	GWYYb]b[	>]a`7UffYmž`8i`a V`UbX`8i`a VYf`f%`-(łX]f" DYHYf` : UffY`mž`%\$%a ]bg"
K YY_`%\$.`" `5i`[i`gh!`+` 5i`[i`gh	@YWi`fY	I`bfi`mK`ca`Yb
	GWYYb]b[	@YWi`fY#GWYYb]b[.`6f]XYga`U]Xg`f&\$%&žX]f" DUi`:`Y][`ž%&)`a ]bg"

F Ygci fWg

DfYgW]VYX F Ygci fWg

Gi Va ]gg]cb 'cZ5ggYgga YbhiHUg\_g

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

Ʒmci 'YbWci bHYf'U'dfcV'Ya 'k \Yb'UH'Ya dh]b[ 'hc'gi Va ]hmc i f'Ugg][ ba YbhiH'fci [ \ 'Hi fb]h]bž'd'YUgY  
HY'Yd\cbY'9I HYfbU'Gi ddcfhcb'-', ) " ' ' %cf'Ya U] 'H'Ya 'cb'YI HYfbU'HY'fgi ddcfh4 i bgk "YXi "Ui "'Gi ddcfh  
\ci fg'UfY', .\$\$Ua '—%\$.\$\$da 'cb'k YY\_XUmg'UbX'-. \$\$Ua '—) .\$\$da 'cb'k YY\_YbXg'fI \*) 'XUmg'U'mYUfI" Ʒmci  
UfY'i bUV'Y'hc'gi Va ]hmc i f'Ugg][ ba YbhiXi Y'hc'U'Zi 'hk ]H'Hi fb]h]b'mci 'a UmUdd'm'Zcf'Ub'YI HYbg]cbž'Vi hmc i  
a i ghfYHU]b'mci f'h]W\_Yhbi a VYf'Z'ca '9I HYfbU'Gi ddcfhfU'cb[ 'k ]H'UbmcH'Yf'fY'Yj UbhXcW a YbHgE'hc  
]bWi XY'Ug'Yj ]XYbVW'hc'gi ddcfhmc i f'YI HYbg]cb'Udd'jW]h]cb" Ʒmci 'Ya U] '9I HYfbU'Gi ddcfhmc i 'k ]  
Ui 'ca UH]WU'm'fYW]j Y'U'h]W\_Yhbi a VYfž'Vi h]Zmci 'HY'Yd\cbY'mci 'k ]'b'YX'hc'gdYW]Z]WU'mUg\_ 'Zcf'cbY"  
Hi fb]h]b'U'gc'dfcj ]XYg'i dXUH'g'cb'H'Y]f'gmgh'Ya 'ghU'g'cb'Hk ]HYf"

; YbYfU'mž'UggYgga YbhiHUg\_g'a i ghVY'gi Va ]HYX'Y'YW'fcb]WU'mj ]U'Y]H'Yf'Hi fb]h]b'cf'U'A ccX'Y  
Ugg][ ba YbH' 'b]bgHUbVW'g'k \YfY'H'lg ]g'bc'hd'cgg]V'Yž'hk ]'VY'gh'UH'X'cb'mci f'Wci fgY'g'A ccX'Y'g]H'k ]H  
U'HYfbUH] Y'gi Va ]gg]cb'XYHU]g"

: cf]bZ'fa UH]cb'cb'\ck 'hc'gi Va ]hUgg][ ba YbHg'cb]bYj ]U'A ccX'Y. \h'hdg.#gh XYbH'i bgk "YXi "Ui #ck!  
gi Va ]hUgg][ ba YbH'a ccX'Y

## 5 WUXYa ]W< cbYgmiUbX`D`U[ ]Uf]ga

D`U[ ]Uf]ga `]g`i`g]b[ `h`Y`k`c`f`X`g`c`f`]X`Y`U`g`c`Z`c`h`Y`f`g`i`U`b`X`d`f`Y`g`Y`b`h]b[ `h`Y`a` `U`g`m`c`i`f`c`k`b``#W]b`h]U`\_`Y`a`U`b`m`  
Z`c`f`a`g`Z`Z`c`a` `X`Y`]V`Y`f`U`h`Y` `W`X`Y`U`h]b[ `h`c` `U`W`W`Y`X`Y`b`h]U`m`i`W`c`d`m]b[ `Z`c`a` `U`g`c`i`f`W` `k`]h`c`i`h`U`W`\_`b`c`k` `Y`X[ `Y`a` `Y`b`h`

I`B`G`K` `[`f`c`i`d`g`d`U[ ]Uf]ga `]b`h`c` `h`Y` `Z`c` `c`k`]b[ `W`U`h`Y`[`c`f`]Y`g.

- i bXYfghUbx'mci f'f][ \hg'UbX'fYgdcbg]V]h]Yg'Ug'U'gh XYbhUhl BGK
- VY'Uk UfY'cZd'U[ ]Uf]ga ž'Wcdmf][ \hž' BGK 'Gh XYbh7cXY'cZ7cbXi W'Ubx'5Ww'dhUV'Y'I gY'cZ I BGK '⇒H'F Ygci fW'g'Dc`]Wm
- VY'Uk UfY'cZh'Y'ghUbxUfXg'cZVY\Uj ]ci f'YI dYW'X'cZYj Yfmcby']b'h'Y'I BGK 'Wca a i b]m
- 'cWJh'gYfj ]W'g'UbX'j]bZcfa Uh'cb'UVci hl BGK 'UbX'I BGK '@]VfUfm

Gca Y'cZh'YgY'UfYUg'k ]''VY'ZJa ]]Uf'hc'mci ž'ch'Yfg'k ]''VY'byk "'; U]b]b[ 'U'gc'X'i bXYfghUbx]b[ 'cZU''h'Y fY'UH'X'UgdYW'g'cZ9@-G9'k ]''\Y'd'mci 'a U\_Y'h'Y'a cghcZmci f'gh X]Yg'Uhl BGK ""

[\hhd.##ji V'YW'i \]XYg"'\]VfUfm'i bgk "YXi "Ui #' \]gY#JVci h' \]gY](#)

