



SOCW4011

9j jXYbW' UbX' DfUWjW' 6 UgYX' F YgYUfW

HYfa' Cby' #'&\$%



GWcc' cZGcWU' GWYbWg' #' 1 BGK ' 5ffg' UbX' GcWU' GWYbWg

7 ci fgY`Cj Yfj]Yk

`GHUZZ7cbhUW`i8YHU]`g`

`7cbj Ybcfg`

B Ua Y	9a U]`	5j U]`UV]`]m	@cWU]hcb	D\cbY
5VbYf`Dccb	k "dccb4 i bgk "YXi "Ui	H\i fgXUnž&! (da	; ' +žA cfj Yb	- ' ,) \$* ,)
			6fck b`6i]X]b[

`Hi hcfg`

B Ua Y	9a U]`	5j U]`UV]`]m	@cWU]hcb	D\cbY
H]a `K cb[H]a "K cb[4 i bgk "YXi "Ui			
6Å`5UXUa	gchg4 i bgk "YXi "Ui			

GW\cc`7cbhUW`i`bZcfa Uh]cb

GW\cc`cZGcWU`GWYbWg

Fcca`%) -

Acfj Yb`6fck b`7 &\$

Ya U]`.gchg4 i bgk "YXi "Ui

d\cbY. '\$&`- ' ,)`% \$+

7ci fgY'8YHJ]`g

7fYX]hDc]bng`*`

Gi a a UfmcZh\Y'7ci fgY

Gi VYWh5fYU.'EaU[S^l`adj

H\]g`Wci fgY`ZcW`gYg`cb`h\Y`WcbbYWh`cbg`VYhk`YYb`gcWU`k`cf`_`dfUWh`W`UbX`fYgYUfW.`Yj`jXYbW`!VUgYX`dfUWh`W`f96DE`UbX`dfUWh`W`!VUgYX`fYgYUfW`"Gh`XYbng`k`j`YUfb`h\Y`dchYbh]U`g`UbX`"ja`]hU]cbg`cZh\Y`96D

H\]g'Wci fgY'k]''i gY'A ccX`Y'hc`Ugg]ghfYUWX]b[`UbX`YUfb]b[`UWfj]hYg"

5ggYgga Ybh

H\Y'gdYW]WfYeI]fYa Ybhg'cZYUWX'UggYgga YbhiUg_'UbX'h.Y]f'UggcW]UHYX'UggYgga YbhW]HYf]UzYI dYVWX
dYfZcfa UbVW'ghUbXUfXg'UbX'a Uf_]b['fi Vf]Vg'UfY'dfcj]XYX']b'U'gYdUfUHY'5ggYgga Ybh; i]XY']bYg
<UbXci hzk \]WX']gi d'cUXYX'cb'A ccX'Y"

5ggYgga Ybhg'g\ci `X'VY'fYZfYbWX']b'UWw'fXUbW'k]h'h'Y'E UZaa^aXE aU[S^E U]W UWe DWWdW U[Y
9g[VWZUj U]UV'Y'Uh\ [hdg.#gcWU'gWYbWYg"Ufng"i bkg "YXi "Ui #gh XYbhg#Ygci fWg#dc \]WYg!\[i \]XY' \]bYg#'](#)

5ggYgga YbhiUg_g'

5ggYgga YbhiUg_	K Y][\h	8i Y'8UHY	Gh XYbh@YUfb]b[Ci hWca Yg'5ggYggYX
Gi a a UfmicZdfcdcgYX fYgYUfWX'ghfUHY[m	&\$i	&&#\$' #&\$%- '%%\$\$'DA	%Z ž{
DfYgYbHU]cb'UbX'k f]HYb fYdcfhi) \$i	\$- #\$(#&\$%- '%%\$\$'DA	&Z ž{

K f]mYb'fYdcfh]g'Xi Y' - '5df]'&\$%- ž%%da "

DfYgYbHh]cbg'k]''hU_Y'd'UW'Xi f]b['h\Y'hi hcf]U'g'j]b'k YY_g', ž- ž%\$'UbX'%%Ug'gWXYXi 'YX'k]h'nci f'hi hcf"

Hi fb]h]b'gYh]b[. 'H\]g'Ugg][ba Ybh]g'gi Va]hY'X'h'fci [\ 'Hi fb]h]b'UbX'ghi XYbhg'Wb'gYY'Hi fb]h]b'g)a]'Uf]m fYdcfhg"

5ggYgga Ybh' . 'X]j]Xi U'fYgYUfW'fYZYW]cb'hUg_

GhUfhXU'Y . 'Bch5dd']WV'Y

8YhU]g. 'X]j]Xi U'fYgYUfW'fYZYW]cb'hUg_'k cfh' ' \$i 'cZ'h\Y'Z]bU'a Uf_'"% \$ \$'k cfxg'"H\]g'g'h\Y'Z]bU' UggYgga Ybh]Gh XYbhg'k]''fYW]j' Y'k f]mYb'ZYXVUW'UbX'U'bi a Yf]W' [fUXY'k]h]b'%'\$'k cf_]b['XUmg'cZ gi Va]gg]cb'h'fci [\ 'h\Y'i b]j' Yfg]m]g '@YUfb]b['A UbU[Ya Ybh]Gmg'hYa 'f@A GŁ'"H\Y'ZYXVUW'g\YY'h#i Vf]Wk]'' VY'Uj U]UV'Y'h'ghi XYbhg'Uh'h\Y'ghUfhcZ'h\Y'W'ci fgY'gc'h\Uh'h\Ym'Wb'k cf_'h'k UfXg'gdYW]ZYX'ghU'XUfXg"

Hi fb]h]b'gYh]b[. 'H\]g'Ugg][ba Ybh]g'gi Va]hY'X'h'fci [\ 'Hi fb]h]b'UbX'ghi XYbhg'Wb'gYY'Hi fb]h]b'g)a]'Uf]m fYdcfhg"

		k Y`UggYgg`k cf_Yf`UbX`W]Yb]g`dYfW`dh]cbg`cZ`k \Uh k cf_g`z`Zcf`k \ca `U`bX`i bXYf`k \UhW]fW a ghUbW`g`3 9I Ua d`Yg`cZYj U`i Uh]cb`gh X]Yg
	Hi hcf]U`	Hi hcf]U`. `DcghYf`dfYgYb]Uh]cbg
K YY_`%\$. `&&`5df]`!`&, 5df]`	@YWi`fY`	@YWi`fY`. `? bck`YX[`Y`HfUbgZ]f`-`<`ck`Xc`k`Y`a`U`_`Y gi`fY`h`Uh]fYgYUfW` `]g`a`Y`Ub]b[`Z` `mi]fUbg`Uh]X` `]b]c dfUW]W`W`b]h]I`hg/W`bZ]fYbW` `dfYgYb]Uh]cbg`z WYUf]b[`\`ci`gYg`z`fYdcg]hcf]Yg`UbX`fYgYUfW` `i`Vg"
	Hi hcf]U`	Hi hcf]U`. `DcghYf`dfYgYb]Uh]cb`fK`YXbYgXUm]WUggYg cb`m]t
K YY_`%%`&-`5df]`!`% A Um	Hi hcf]U`	Hi hcf]U`. `DcghYf`dfYgYb]Uh]cb`fH\`i`fgXUm]WUgg`cb`m]t

F Ygci fWg

DfYgWf]VYX`F Ygci fWg`

H\Y`WefY`hI hZcf`h]g`Wci fgY`]g`A Ufh]b`K YVVYf`5dd`m]b[`F YgYUfWk`9j]XYbW`]b`GcW]U`K cf_
DfUW]W`f&\$% E`di V`]g\YX`VmDU`[fUj`Y`A UW`]`Ub`"7\UdhYfg`Zca`h]g`hI hk]`VY`"]ghYX`Ug`Wca`di`gcfm
fYUX]b[`Vi hk]`U`gc`VY`gi`dd`Ya`YbhYX`VmchYf`fYgci fWg`i`d`cUXYX`]b`A ccX`Y`"H\Y`I`BGK`'6cc_g\cd
\Ug`cfXYfYX`h]g`hI hZcf`di`fWUgY`"

F YWca a YbXYX`F Ygci fWg

GYY`k`YY`_mfYUX]b[``]gh]b`A ccX`Y`"

7ci fgY`9j U`i Uh]cb`UbX`8Yj`Y`cda`Ybh

FZW? k7j bWd]W UWdWeba`eWe`Xd_`fZWTSe[e`aXEA`5I`&`##`a`Ya[`Y`UagdeWVWhWab`_`W`f`Zai`WhWd
[`Xd_`S`^WhS`gSf[a`e`g`VWdS]`W`Tk`fgfad`[`bdWh]age`kWSde`bdah[VWe`[_`badS`f`[`Xd_`Sf[a``XaddWZeZSb[`Y
UagdeWUa`fW`fS`V`SeeWee`_`W`fez`4SeW`a`fZWXWWTsu]`Xa_`Sef`kWSde`UaZad`EA`5I`&`##`ZSe`dW
adW`fW`fZWUa`fW`ffa`_`adWV[dWUf`k`SVVdWee`fZWi`Ske`[`i`Z[UZ`bdSuf[f[a`Wdi`[eVa`_`f`U`W`f`bdWdW`UW
S`V`Wj`[ef`Y`dWeSdJZ`Ua`_`T`[`WfaYWfZWd`fa`[`Xd_`7h[VW`UW4SeW`BdSuf[UW/74Bfz`:`SVV[f[a`f`
SeeWee`_`W`fe`ZShWTWV`UZS`YVW`fa`TWfWdeg[f`fZW`WVWe`aXefgVW`fe`W`fWd`Y`W[fZWd`aXfZW`a`agde
efdS`_`e`EA`5I`&`#`(`EaU[S^I`ad]`:`a`agde`3VhS`UW`BdSuf[UWBad`Xa`fa`S`V`EA`5I`&`#`EaU[S^I`ad]
:`a`agde`DWeSdJZ`FZW[ež

Gi Va]gg]cb`cZ5ggYgga YbhHUg_g

Gi Va]gg]cb`cZ5ggYgga YbhHUg_g

Hi fb]hb`Gi Va]gg]cb

zmc i`YbWci bhYf`U`dfcV`Ya`k` \Yb`U`H`Ya` dh]b[`hc`gi Va]hmc i`f`Ugg][ba YbhHfci [\`Hi fb]hbzd`YUgY
H`Y`d`l`cb`Y`9I`H`f`b`U`G`i` ddcfhcb`-`'` ,`)` " ` ' ` ' ` %cf`Ya` U]`H`Ya` `cb`YI`H`f`b`U`H`f`gi` ddcfh4` i` bgk` "YXi` "Ui` "Gi` ddcfh
`l`ci` fg`UfY` ,` .`\$\$Ua` -`-%\$.`\$\$da` `cb`k` YY`_`XUmg`U`b`X`-` .`\$\$Ua` -`)` .`\$\$da` `cb`k` YY`_`YbXg`f`l` *`)` `XUmg`U`m`Y`U`f`l`" zmc i
UfY`i` bUV`Y`hc`gi Va]hmc i`f`Ugg][ba YbhXi`Y`hc`U`ZU`i`h`k`]H`Hi`fb]hb`mc i`a` UmUdd`mi`Zc`f`Ub`YI`H`f`bg]cbz`Vi`hmc i
a`i` ghf`Y`H]b`mc i`f`h]W`Y`h`bi`a` VYf`Z`ca` `9I`H`f`b`U`G`i` ddcfhf`U`cb[`k`]H`U`b`m`c`H`Y`f`f`Y`Y`j` UbhXcW`a` Yb`hg`L`hc
]bW`i`XY`Ug`Y`j`]XYbW`hc`gi` ddcfhmc i`f`YI`H`f`bg]cb`Udd`]W`h]cb" zmc i`Ya`U]`9I`H`f`b`U`G`i` ddcfhmc i`k`]`
Ui`hc`a`U`h]W`U`m`f`Y`W`]j`Y`U`h]W`Y`h`bi`a` VYf`z`Vi`h]Zmc i`H`Y`d`l`cb`Y`mc i`k`]`b`Y`Y`X`hc`gd`Y`W`Z]W`U`m`Ug`_`Zc`f`cb`Y`"
Hi`fb]hb`U`gc`d`fc`j`]XYg`i`d`XU`H`g`i`cb`H`Y`]f`g`m`g`H`Ya` `g`h`U`h`g`i`cb`H`k`]H`Y`f`"

; YbYfU`mz`UggYgga YbhHUg_g`a`i` ghVY`gi Va]H`Y`X`Y`Y`W`f`cb]W`U`mj`]U`Y`]H`Y`f`Hi`fb]hb`cf`U`A`cc`X`Y`
Ugg][ba Ybh`H`b`]bg`h`U`b`W`g`k` \Y`f`Y`H`L`g`]g`b`c`h`i`d`c`g`g]V`Y`Z`]h`k`]`V`Y`g`h`U`H`X`i`cb`mc i`f`W`ci`fg`Y`g`A`cc`X`Y`g`]H`Y`k`]H`
U`H`f`b`U`h]j`Y`gi Va]gg]cb`XY`H]`g"

: cf`]b`Z`c`fa`U`h]cb`cb`l`ck`hc`gi Va]h]Ugg][ba Ybh`g`cb`]b`Y`j`]U`A`cc`X`Y`.\`H`td`g`#`g`h`XY`b`h`i`bgk`"YXi`"Ui`#`ack`!
gi Va]h]Ugg][ba Ybh`a`cc`X`Y`

5 WUXYa]W<c bYghmUbX`D`U[]Uf]ga

D`U[]Uf]ga]g`i g]b[`hY`k cfXg`cf]XYUg`cZchYfg`UbX`dfYgYbh]b[`hYa`Ug`mci`f`ck`b`" #WUbb`hU`Y`a`Ubm`Z`fa`g`z`Z`ca`XY`]VYfUHY`WX`YU]b[`hc`UW]XYbhU`mW`dm]b[`Z`ca`U`gci`fW`k`]h`ci`hUW`bck`YX[`Ya`Ybh`

I BGK`[`fci`dg`d`U[]Uf]ga`]b`hc`hY`Z`ck`]b[`WU]Y[`cf]Yg.

7`cdm]b[`i`g]b[`hY`gUa`Y`cf`j`Yfmg]a`]Uf`k`cfXg`hc`hY`cf][]bU`hY`hcf`]XYU`k`]h`ci`hUW`bck`YX[]b[`hY`gci`fW`cf`i`g]b[`ei`chU]cb`a`Uf`g`"H`]g`U`gc`Udd`Yg`hc`]a`U[`Yg`z`Uf`h`UbX`XYg][`b`dfc`YW]g`z`Ug`k`Y`"Ug`dfYgYbhU]cbg`k`Y`fY`gca`YcbY`dfYgYbh]g`UbchYf`g`]XYUg`cf`k`cfXg`k`]h`ci`hW]YX]h`

#Uddfcdf]UHY`dUfUd`fUg]b[`7`U`b[]b[`U`Z`k`k`cfXg`UbX`d`fUgYg`k`Y`a`cghmifYU]b]b[`hY`cf][]bU`g]fi`W`fY`UbX`#`f`dfc[`fYgg]cb`cZ]XYUg`cZ`hY`cf][]bU`z`UbX`]b`Z`fa`U]cb`k`]h`ci`hUW`bck`YX[`Ya`Ybh`"H`]g`U`gc`Udd`Yg`]b`dfYgYbhU]cbg`k`Y`fY`gca`YcbY`dUfUd`fUgYg`UbchYf`g`]XYUg`cf`k`cfXg`k`]h`ci`hW]YX]h`UbX`hc`d]YW]b[`hc[`Y`h`Y`f`ei`chYg`UbX`dUfUd`fUgYg`]b`hc`U`bYk`k`Y`c`Y`z`k`]h`ci`hUddfcdf]UHY`fY`ZY`fY`bW]b["

7`c`i`g]cb.`k`cf_]b[`k`]h`chYfg`Vi`hdUgg]b[`cZ`hY`k`cf_]Ug`U`dYfgcb`g`]bX]j`]Xi`U`k`cf_"7`c`i`g]cb`U`gc`]bW`i`XYg`dfcj`X]b[`mci`f`k`cf`_`hc`UbchYf`g]h`XYbhVY`Z`fY`hY`Xi`Y`XU]h`z`cf`Z`f`hY`di`fdcgY`cZ`hY`a`d`U[]Uf]g]b[`Uh`Ubm]h`a`Y`z`dUm]b[`UbchYf`dYfgcb`hc`dYfZ`fa`Ub`UW]XYa`]W]Ug`z`ghYU`]b[`cf`UW`ei`]f]b[`UbchYf`dYfgcb`g`UW]XYa`]Wk`cf_]UbX`W`dm]b[`]h`c`Z`Y]b[`hc`W`a`d`Y`h`UbchYf`dYfgcb`g`k`cf_]cf`gY]b[`dUma`Ybh`Z`f`W`a`d`Y`h]b[`UW]XYa`]Wk`cf_"

#Uddfcdf]UHY`W]h]cb.`7`h]b[`gci`fW]g`k`]Wk`Uj`Y`bchVYYb`fYUX`z`k`]h`ci`hUW`bck`YX[]b[`hY`"gYW`bXUf`m`gci`fW`Z`ca`k`]Wk`_bck`YX[`Y`cZ`hY`a`U`g`VYYb`cV]h]bYX"

8`i`d`]W]h]cb`f`f`gY`Z`d`U[]Uf]ga`"L`gi`Va`]h]b[`mci`f`ck`b`k`cf`z`]b`k`Y`cf`]b`dUf`z`k`Y`fY`]h`Ug`dYj`]ci`g`m`VYYb`dfYdUfYX`cf`gi`Va`]h]X`Z`f`UbchYf`UggYgga`Ybhcf`W`i`fgY`Uh`I`BGK`cf`UbchYf`i`b]j`Yfg]m`

7`cffYW]h`fY`ZY`fY`bW]b[`dfUW]W]g.

- DUfUd`fUg]b[`z`gi`a`a`Uf]g]b[`z`YggUm`k`f]h]b[`UbX`h`a`Y`a`UbU[`Ya`Ybh`
- 5`ddfcdf]UHY`i`gY`cZ`UbX`U]h]f]Vi`h]cb`Z`f`U`fUb[`Y`cZ`a`U]h]f]U`g`]b`\$

%o

U,

- i bXYfgHUbX'mci f'f][\hg'UbX'fYgdcbg]V]]hYg'Ug'U'gh XYbhUhl BGK
- VY'Uk UfY'cZd'U[]Uf]ga ž'Wcdmf][\hž' BGK 'Gh XYbh7cXY'cZ7cbXi WñUbX'5WwdfUV'Y'I gY'cZ
I BGK '⇒H'F Ygci fW'g'Dc`]Wñ

5 WUXYa]WbZcfa Uh]cb`

: cfYggYbh]U`ghi XYbh]bZcfa Uh]cb`fY`Uh]b[`hc.

- fYei Yghg`ZcfYI hYbg]cb/
- `UhY`gi Va]gg]cbg`[i]XY`]bYg/
- fYj]Yk `cZa Uf_g/
- I B GK `<YU`h`UbX`GUZY`midc`]WYg/
- YI Ua]bUh]cb`dfcVWXi fYg/
- gdYW]U`Vc]bg]XYfUh]cb`]b`hY`Yj Ybhcz]`bYgg`cf`a]gUXj Ybh fY/
- ghi XYbhYei]m]UbX`X]gUV`]m/
- UbX`chYfYggYbh]U`UWUXYa]W]bZcfa Uh]cbz`gYY

[\hhdg.#k k k "Ufng"i bgk "YXi "Ui #W ffYbhghi XYbh\]bZcfa Uh\]cb`dfc\]Vc`g!\[i \]XY`\]bYg#](#)

⇒ U[Y`7 fYX]h

GmbYf[]Yg`]b`Gci bX`&\$%*`

7F ⇒ CG

7F ⇒ CG`Dfcj]XYf`7 cXY. '\$\$\$- , ;