



SOCW3013

GcWU`K cf_DfUWjW`@Yj Y`" `D`UW`a Ybh6

HYfa `Hk c`#`&\$&\$

GWcc`cZGcWU`GWYbWg`#`I BGK `5ffg`UbX`GcWU`GWYbWg

7ci fgY`Cj Yfj]Yk

GHJZ`7cbHJW`8YHJ]`g

7cbj Ybcfg

B Ua Y	9a U]`	5j U]`UV]`]m	@cW]h]cb	D\cbY
8f`D\]`]dU`9j Ubg	d"Yj Ubg4 i bgk "YXi "Ui	5ddc]bha Ybfg Uj U]`UV`Y`j]U fYei Ygh	%%) `A cfj Yb 6fck b`6i]X]b[

GWXcc``7cbHJW`bZcfa Uh]cb

GWXcc``cZGcW]U`GWYbWg

Fcca `%) -

A cfj Yb`6fck b`7 &\$

Ya U]`.]gcgg4 i bgk "YXi "Ui

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

7ci fgY'8YHJ]`g

7fYX]hDc]bHg`*`

Gi a a UfmcZ\hY'7ci fgY

Gi VYWh5fYU`EaU[S^I` ad

h`h]g`Vci fgY'mci`k`j`Udd'mhY`hYcfYh]WU`UbX`g_]`g`VUgYX`YUfb]b[`]b`U`dfUW]W`gYh]b[`]Mci`k`j`VY`
]b_YX`k`]h`U`ei`U`]ZYX`gcW]U`k`cf_Yf]b`U`i`a`Ub`gYfj`]W`g`U[`YbW]icZYf]b[`dfUW]W`VUgYX`YUfb]b[`z]b`
UW]c`fXUbW`k`]h`h`Y`55GK` `DfUW]W`G`H`b`X`U`f`X`g`"H\]g`Y`Ufb]b[`YI`dYf]YbW`]g`gi`ddcfhYX`Vm]gcW]U`k`cf`
gi`dYfj`]g]cb`dfca`ch]b[`W]h]W`fYZYW]cb/]h]k`j`[i`]XY`mci`h`fci`[`U`X`Y`j`Y`cda`Yb]U`dfcW]gg`ZcW`g]b[`cb`
bck`YX[`Y`z`g]`g`UbX`j`U`i`Yg`fY`Yj`Ub]h`c`h`Y`gcW]U`k`cf`_`dfcZY`gg]cb`"D`UW]a`Yb]U`c`W]h]cb`]g`a`UbU[`YX`]b`
Vc]bgi`h`U]cb`k`]h`mci`z`gc`h`U]h]id]f]c]f]h]gY`mci`f`YUfb]b[`]c`U`g`UbX`dfcZY`gg]cb`U`]b]hY`fY`ghg`"D`UW]a`Yb]h`
cW]W`f`]b`X]j`Yf`gY`Vc]b]h]i`h]g`cZ`dfUW]W`gi`W`Ug`^cgd]h]U`g`z`gh]U]h`UbX`ZY`XY`fU`[`cj`Yfba`Yb]h`XY`d`U]fa`Yb]hg`z`UbX`
bcb![`cj`Yfba`Yb]h`Vc]a`a`i`b]m]VUgYX`cf[`Ub]g]U]h]cb]g`"GcW]U`k`cf`_]b]hY`fj`Yb]h]cb]g`a`Um]b]W]i`XY`dc`]W]z`
fY`gY`U`f`W`z`Vc]i`bgY`]b[`z`W]UgY`k`cf`_`UbX`Vc]a`a`i`b]m]k`cf`_"Mci`k`j`XY`j`Y`cd`[`YbY`fU`gcW]U`k`cf`_`g_]`g`z`
f]UbgZY`fU`V`Y`h`c`U`gcW]U`k`cf`_`Vc]b]h]i`h]g`"H`Y`d`UW]a`Yb]h`Vc]a`df]gY`g`(+`U]h]Y`b`X`U`b`W`X`U`m]g`f)`&+`^`ci`fg`U`b`X`
]g`[`YbY`fU`mi`b`XY`f]U`_`Yb`Zc]i`f`X`U`m]g`dY`f`k`YY`_`h`fci`[`^`ci`h`Z`ca`h`Y`g`h]U`f]h`c`Z`H`Y`fa`&`i`b]h`h`Y`f`Y`ei`]g]h`^`ci`fg`
UbX`h]Ug`_`U`fY`Vc]a`d`Y`h`X`"H`Y`d`UW]a`Yb]h]g`UW]Vc]a`d`Ub]YX`Vm]U`gY`f]Y`g`c`Z`h]h`[`f]U]h]cb`G`Y`a`]b`U`f`g`h`U`h`
gi`ddcfh]UbX`Vc]a`d`Y`a`Yb]h]mci`f`ZY`X`VUgYX`YUfb]b[`z]k`]h`Ub`Ya`d`U`g]g`cb`h`Y`c`f`m]d`fUW]W`]b]hY`[`f]U]h]cb`z`
W]h]W]gcW]U`k`cf`_`UbX`W]h]W`fYZYW]cb`H\]g`Vci`fgY`]g`DUfh]6`cZ`mci`f`Z]fgh: `]Y`X`9`X`i`W]h]cb`d`UW]a`Yb]h`
k`^`W]g`h]U]h]X`]b`h]Y`fa`%`U]h]h`Y`g`U`a`Y`U[`YbW]h]k`]h`GcW]U`K`cf`_`DfUW]W`@`Y`j`Y`" `D`UW]a`Yb]h`5`"5`h`h`Y`Y`b`X`
cZ`h]g`Vci`fgY`[`fUX]b[`]g`Z]b`U`h]YX`Zc]f`Vc]h`Vc]i`fgY`g`"

7ci fgY`@YUfb]b[`Ci hVc]a Yg

- %`8`Y`j`Y`cd`dfcV`Ya`gc`j`]b[`gh]U]h`[`]Y`g`i`h`]g]b[`gcW]U`k`cf`_`bck`YX[`Y`h`c`X`Y`h`fa`]b`Y`Udd]fcd]f]U]h`
a`Y`h`c`X`g`c`Z`]b]hY`fj`Yb]h]cb`k`]h`]b`X]j`]Xi`U`g`z`Vc]i`d`Y`g`z`Z]a`]`Y`g`z`[`fci`dg`UbX`#`f`Vc]a`a`i`b]h]Y`g`"
- &`8`Ya`cb]gh]U]h`gci`b`X`Vc]a`a`]h`a`Yb]h]c`gcW]U`k`cf`_]`U`i`Yg`UbX`Y`h`]Vg`]b`dfUW]W`h`fci`[`^`W]h]W`
fYZYW]cb`]b`h`Y`d`UW]a`Yb]h`"
- '`" `8]g]W`gg`h`Y`f`XY`j`Y`cd]b[`dfcZY`gg]cb`U`]XY`b]h]m]fYZYW]j`Y`m]h`fci`[`^`ci`h`h`Y`d`UW]a`Yb]h`
(" `5`dd`m]Vc]i`U`V`c`f]U]h]j`Y`d`fUW]W`d`f]b]W]d`Y`g`]b`h`Y`f`fY`U]h]cb]g`^`]dg`k`]h`U`"a`Ya`VY`fg`cZ`h`Y`cf[`Ub]g]U]h]cb`U`
b]Y`k`cf`_"
-)`" `I`b`XY`f]U`_`Y`g`m]g]h`Ya`U]h]W]b]e]i`]m]k`]h`UbX`cb`VY`U`Z`c`Z`]b`X]j`]Xi`U`g`z`Vc]i`d`Y`g`z`Z]a`]`Y`g`z`[`fci`dg`UbX`#`f`
Vc]a`a`i`b]h]Y`g`"
- *`" `5`dd`f]U]g]Y`h`Y`f`c`k`b`d`fUW]W`UbX`Y`Ufb]b[`]b`c`f`X`Y`f`h`c`f`Y`Vc]`b]g]Y`h`Y`f`c`k`b`gh]fY`b[`h`g`z`]a`]h]U]h]cb]g`UbX`
]b`X]j`]Xi`U`d`fUW]W`g]h`m]Y`"
- +`" `8]g]h]b[`i`]g`^`VY`h`YY`b`d`Y`fg`cb`U`UbX`dfcZY`gg]cb`U`fY`U]h]cb]g`^`]dg`UbX`fY`g`d`c`b`X`UW]Vc]fX]b[`m`
,`" `5`dd`m]Vc]a`a`i`b]W]h]cb]g_]`g`Udd]fcd]f]U]h`h`c`U`i`X]Y`b`W`UbX`g]h]i`U]h]cb`
- `" `F`YZYW]h]i`dcb`UbX`U]h]W`U]h`h`Y`]a`d`UW]c`Z`h`Y`f]j`U`i`Yg`z`YI`dYf]YbW]g`z`UbX`dY`fg`cb`U`]m]cb`c`h`Y`fg`

HYUW]b[`G]h]U]h`[`]Y`g`

H\]g`]g`DUfh]6`cZ`h`Y`@`Y`j`Y`" `d`UW]a`Yb]h`Mci`f`YUfb]b[`]b`h`h]g`Vci`fgY`cW]W`fg`]b`h`Y`ZY`X`gi`ddcfhYX`Vm`
h]h`[`f]U]h]cb`G`Y`a`]b`U`f`g`^`Y`X`Y`j`Y`f]m]k`YY`_`g`U]h]h`Y`i`b]j`Y`f]g]m]Xi`f]b[`h`Y`d`UW]a`Yb]h]dY`f]c`X`"HYUW]b[
gh]U]h`[`]Y`g`fYZYW]h]mci`f`UW]j`Y`f`c`Y`UbX`b`Y`Y`X`Zc]f`fYZYW]cb`UbX`]b]W]i`XY`."

'%"'"&' 'UhhYbXUbVW'XUmg'fP%*' '\ci fgk'UhhY'U'cWUHX'U[YbWmZcf@Yj Y'" 'D'UW'a Ybh

'&"'"C bY'\ci f'dYf'k YY_'gi dYfj]g]cb'UhhY'U[YbWmk]h' hY':]Y'X'9Xi WUrcf'f'gi dYfj]gcfl'"H\]g']g'gf'fi W'h fYX
UWw'fX]b['hc'Ub'U[YbXU'dfYdUFYX'Vmimci 'UbX'VUgYX'cb']ggi Yg'Zca 'mci f'ci fbU'zk f]hYb'UbU'mgYg#Ydcf'fg
cb'mci f'k cf_'zk]h'U[YbXU']h'a g'UXXYX'Vmimci f':]Y'X'9Xi WUrcf'"5hd'UW'a Ybhg'k]h'bc'gcWU'k cf_
gi dYfj]g]cb'cb!g]hY'Zgh'XYbhg'dUfh]V]dUHY']b'Ub'9i hYfbU'Gi dYfj]g]cb'; fci d'\Y'X'UhhY'i b]j' Yfg]hm
Zcfb] [\hmi'h'fci [\ci h'Y'd'UW'a Ybh'

" '"'"Mci f'XU]m8]UfmUbX'k YY_'mDfUW]W'>ci fbU'k \]W'W'cb]bi Y'UW'cgg'DUfh5'UbX'DUfh6'cZ'hY
d'UW'a Ybh'

(' '"'"Mci f':]bU'D'UW'a Ybh'f Ydcf'hXYj Y'cdYX']b'W'cbgi 'hU]cb'k]h' hY':]Y'X'9Xi WUrcf"

'*"'"'hY [fU]cb'GYa]bUfg'Uhi b]j' Yfg]miXi f]b['d'UW'a Ybh'k \YfY'k cf_'k]'VY'gYhUbX'h'a Y'U'cWUHX'Zcf']hg
W'ca d'Y'h'cb'"HYUW]b[]bW' XYg'YUfb]b[]b'hY'Z]Y'X'cb'd'UW'a YbhUbX'UhhYbXUbVW'Uhh'Y [fU]cb
GYa]bUfg'\Y'X'Yj Yfm&k YY_'g'UhhY'i b]j' Yfg]miXi f]b['hY'd'UW'a Ybh'dYf]cX"



UWV fUH`mfYZYVW`H\Y`H]a Yg\YYh]g`j Yf]ZYX`Vmi\Y` :]Y`X`9Xi WUrcf`k YY_`m`

5``d]YW`g`cZk cf_]b`GC 7 K ' \$% `UfY`\i fX`Y`fYei]fYa Ybhg`Xi Y`rc`h`Y`dfcZYgg]cbU``dfUW]W`fYei]fYa Ybhg`cZ`h`Y`6UW\Y`cf`cZGcWU`K cf_`fk cbg`d`dfc[fUa ``Z`h`Y`H]a Yg\YYh]g`bchXY`h`fa]bYX`Vmi\Y`7 ci fgY

8YHJ]g.

H\Y'9bX'cZD'UW@a YbhF Ydcfh]g'W@a d'YHY'X'i g]b['h\Y'gdYW]ZYX'h'a d'UH'Uj U]UV'Y'cb'A ccX'Y''K \Yb
dfYdUf]b['h\Y':]bU'D'UW@a YbhF Ydcfh]g'fYj]Yk YX'Vm'h\Y'@]U]gcb'Hi hcf'k]h]b'k c'k YY_g'cZ
9Xi W]hcf']b'UXj UbVW'cZ'h\Y'Xi Y'XUH''b'dfYdUf]b['h\]g'XcW'a Ybh]g'fYj]Yk YX'Vm'h\Y'@]U]gcb'Hi hcf'k]h]b'k c'k YY_g'cZ
g\ci 'X'VY'fYZfYbVWX''H\Y'9bX'cZ'D'UW@a YbhF Ydcfh]g'fYj]Yk YX'Vm'h\Y'@]U]gcb'Hi hcf'k]h]b'k c'k YY_g'cZ
D'UW@a YbhF Ydcfh]g'fYj]Yk YX'Vm'h\Y'@]U]gcb'Hi hcf'k]h]b'k c'k YY_g'cZ
mci f'YUfb]b['[cU'g'UbX'cf'hUg_g'UfY'U'h'fYX'Uh'h\Y'a]X!d'UW@a Ybhdc]b]h'h\Y'9bX'cZD'UW@a YbhF Ydcfh
g\ci 'X']bW'i XY'U'XYgW]dh]cb'cZ\ck 'h\Ymk YfY'gi VgYei YbhmiUW]Yj YX''

H\Y':]Y'X'9Xi W]hcf'U'gc'XfUzg'U'gYW]cb'cZ'h\Y'fYdcfhk \]W'Z'fa g'dUfhcZmci f'ZYXVUW'cb'd'UW@a Ybh
dfc[fYgg''H\Y'9bX'cZD'UW@a YbhF Ydcfh]g'fYj]Yk YX'Vm'h\Y'@]U]gcb'Hi hcf'k]h]b'k c'k YY_g'cZ
gi Va]gg]cb''ZXY'h'fa]bYX'hc'VY'cZgU]gZ]W'cfmci U']mU'gU]gZ]W'cfmci[fUXY']g'Ybh'fYX']b'A ccX'Y'UbX'Vf]YZ
W@a a Ybh]g'UfY'Ybh'fYX'Vm'h\Y'Hi hcf''ZXY'h'fa]bYX'hc'VY']bW@a d'YHY'cf'i bgU]gZ]W'cfmci[h\Y']fUXY']g
k]h\Y'X'UbX'mci 'k]'VY'W'cb'UW]YX'Vm'h\Y'@]U]gcb'Hi hcf'UbX'fYei Ygh'X'hc'fYj]gY'UbX'fYgi Va]h'

H\Y'7ci fgY'7cbj Ybcf']g'h\Y'Z]bU'UfV]h'f'cb'h\Y' [fUXY''

F Ygci fWg

DfYgWf]VYX`F Ygci fWg`

H\]g`Wci fgY`ci h]bY`GC 7K ` \$% `g\ci `X`VY`fYUX`]b`Wcb↑bW]cb`k]h`Wci fgY`ci h]bY`GC 7K ` \$%&!`GcW]U`
K cf_`DfUW]W`@Yj`Y`" `D`UW]a`Ybh5

7`YU_`/`K`]gcb`f&\$%-`EA`U_]b[`h\Y`A`cgihcZ:]Y`X`D`UW]a`Ybh`7`Yb[U[Y. `Gci`h`A`Y`Vci`fbY

F YWca a YbXYX`F Ygci fWg

5XX]hcbU`fYgci fWg`Zcf`gh`XYb]g`UfY`Uj`U]UV`Y`j`U`Y[Ubhcz`h\Y`"]b_`dfcj`]YX`cb`a`ccX`Y`"

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

Gh`XYbhZYXVUW_]g`k`Y`Wca`Y`h\fc`i`[`lci`h\h\Y`HYfa`"Gh`XYb]g`a`mU`Ya`U]`h\Y`K`@`I`b]hcf`h\Y`Wci`fgY`
Wcbj`Ybcf`" `b`UXX]hcbz`gh`XYb]g`UfY`gi`fj`Ym`X`UVci`h\h\Y`f`YI`dYf]YbW`U`h\h\Y`YbX`cZ`h\Y`d`UW]a`Ybh`UbX`
YbWci`fU[`YX`h`c`Wca`d`Yh`h\Y`A`m]I`dYf]YbW`"]b_`k`Yb`Uj`U]UV`Y`"

DfYj`]ci`g`gh`XYbhZYXVUW_]`Ug`VYYb`i`h`]gYX`h`c`XYj`Y`cd`Wci`fgY`a`Uh`f]U`g`UbX`Wcbh`bhz`UbX`fYXYj`Y`cd`
UggYgga`Ybh]Ug_g`Zcf`&\$&\$`"

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`Ybhi`h`fci`[`\`Hi`fb]h]b`z`d`Y`UgY`
HY`Yd`cbY`9I`HYfbU`Gi`ddcfhcb`-`,`)`"``"``%cf`Ya`Uj`h`Ya`cb`YI`HYfbU`HY`hgi`ddcfh4`i`bgk`"YXi`"Ui`"Gi`ddcfh`
`ci`fg`UfY`,`.\$\$Ua`-`%\$.\$\$da`cb`k`YY`XUmg`UbX`-`.\$\$Ua`-`).\$\$da`cb`k`YY`YbXg`f1`*)`XUmg`U`mY`Uf2`Ʒmci`
UfY`i`bUV`Y`hc`gi`Va`]hmc`i`f`Ugg][`ba`Ybhi`Xi`Y`hc`U`Zi`h`k`]h`Hi`fb]h]b`mci`a`Um`Udd`m`Zc`f`Ub`YI`HYbg]cb`z`Vi`hmc`i`
a`i`ghf`Y`h]b`mci`f`h]W`Y`hbi`a`VYf`Z`ca`9I`HYfbU`Gi`ddcfh`f`U`cb[`k`]h`Ubmc`h`Y`f`fY`Yj`Ubh`Xc`W`a`Yb`hg`L`hc`
]b`Wi`XY`Ug`Yj`]XYb`V`hc`gi`ddcfh`mci`f`YI`HYbg]cb`Udd`]W`h]cb`"Ʒmci`Ya`Uj`9I`HYfbU`Gi`ddcfh`mci`k`j`
Ui`hc`a`U`h]W`m`f`Y`W`j`Y`U`h]W`Y`hbi`a`VYf`z`Vi`h]Z`mci`HY`Yd`cbY`mci`k`j`b`Y`Y`X`hc`gd`Y`W`Z`W`m`Ug`_`Zc`f`cbY`
Hi`fb]h]b`U`gc`d`fcj`]XYg`i`d`XU`h`g`cb`h`Y]f`gmg`h`Ya`g`h`U`h`g`cb`Hk`]h`Y`f`"

;`Yb`Y`f`U`m`z`Ugg`Y`gga`Yb`hi`U`g`_`g`a`i`gh`V`Y`gi`Va`]h`Y`X`Y`Y`W`f`cb]W`m`j`]U`Y`]h`Y`f`Hi`fb]h]b`cf`U`A`cc`X`Y`
Ugg][`ba`Yb`h`-`b`]bg`h`U`b`W`g`k`Y`f`Y`h`g`]g`b`ch`d`c`g`g]V`Y`z`]h`k`j`V`Y`g`h`U`h`X`cb`mci`f`W`ci`fg`Y`g`A`cc`X`Y`g`]h`k`]h`
U`h`Y`fb`U`h]`Y`gi`Va`]gg]cb`X`Y`h]g`"

:`cf`]b`Z`c`fa`U`h]cb`cb`l`ck`hc`gi`Va`]h`Ugg][`ba`Yb`hg]cb`]b`Y`j`]U`A`cc`X`Y`.\`h`d`g`#`gh`XYb`h`i`bgk`"YXi`"Ui`#`ck`!
gi`Va`]h`Ugg][`ba`Yb`h`a`cc`X`Y`"

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

D`U[]Uf]ga `]g`i g]b[`hY`k cfXg`cf`]XYUg`cZc`hYfg`UbX`dfYgYbh]b[`hYa `Ug`mci f`ck b" `#WUb`hU`Y`a Ubm
Zcfa gZ`Zca `XY`]VYfU`h`V`X`Y`U`h]b[`hc`UW`Y`X`Y`b`U`m`W`c`d`m]b[`Zca `U`gci f`W`k]h`ci hUW`bck `YX[Ya Yb`h`

I BGK `[fci dg`d`U[]Uf]ga `]bhc`hY`Zc`ck]b[`W`h`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

5 WUXYa]W=Zcfa Uh]cb

: cf`YggYbh]U`gh XYbh]bZcfa Uh]cb`fY`Uh]b[`tc.

- fYei Ygh]Zcf`YI hYbg]cb/
- `UhY`gi Va]gg]cbg`[i]XY`]bYg/
- fYj]Yk `cZa Uf_g/
- I BGK `<YU`h`UbX`GUZYmdc`]WYg/
- YI Ua]bUh]cb`dfcW`Xi fYg/
- gh XYbhYei]mUbX`X%o m\$



5W& `YX Ya \$ m

K W& `YX Y\$ YX U`* ` \$ c`UfY\$ %o]cb) ght %o
? Ybg]b[h Ua d g %o UH`X