

1



: cf'a cfY`j]bZcfa Uhc]b`UVci hñY`UñYbXUbW`dfc]cW`g`j]b`h`%: UW`hmcZ5f]g`UbX`GcW]U%o
GWYbWg. [\f\]d\]g.#k k "Uf\]g"i b\]gk "YXi "Ui #W ffYb\]h\]g\]i XYb\]g#UW\]XYa \]W\]bZcfa Uhc\]b#dfc\]cW`g!\[i \]XY`\]bYg#](#)

7 ci fgY'8YHJ]`g

7 fYX]h'Dc]bhg '*`

Gi a a UfmicZ'h\Y'7 ci fgY

Gi V'YWh5fYU. '5Z[W'eWE fgV[W'e

H\]g'W'ci fgY'W]b'U'gc'VY'gh X]YX']b'h\Y'Zc``ck]b['gdYW]U']gUh]cbg. '3e[S` E fgV[W'e I a_ W ie S` V 9 W VVd
E fgV[W'e

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5ggYgga Ybh

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5ggYgga YbhHUg_	K Y][\h	8i Y'8UHŸ	Gh XYbh@YUfb]b[Ci hWta Yg'5ggYggYX
DfYgYbhUH]cb`	&\$i	(da `cb`dfYgYbhUH]cb`XUm	%ž&ž ž(ž)
!7`Ugg`HYgh`	` \$i	&- #\$, #&\$% `%\$. \$\$'5A	%ž&ž ž(ž)
F YgYUfW`9ggUm`) \$i	%- #/\$#&\$% `\$(.%) `DA	%ž&ž ž(ž)

5ggYgga Ybh8YHU]`g

Hi fb]hb'gYhb[. H\]g'Ugg][ba Ybh]g'gi Va]hX'h\fc i [\ 'Hi fb]hb'UbX'ghi XYbhg'WUb'gYY'Hi fb]hb'g)a]'Uf]hm
fYdcftg"

Gi Va]gg]cb'cZ5ggYgga YbhHUg_g

Gh XYbHg'UfY'YI dYwW'X'hc'di h'kY]f'bUa Yg'UbX'ghi XYbhbi a VYfg'cb'Yj YfmdU[Y'cZkY]f'Ugg][ba Ybhg"

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

zmc i'YbWci bhYf'U'dfcV'Ya'k \Yb'U'HYa dh]b['hc'gi Va]hrci f'Ugg][ba Ybhk'fci [\ 'Hi fb]h]bzd'YUgY
HY'Yd\cbY'9I HYfbU'Gi ddcfhcb'-',) '' '' %cf'Ya U]'kYa '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'f1 *) 'XUmg'U'mYUfL' zmc i
UfY'i bUV'Y'hc'gi Va]hrci f'Ugg][ba YbhXi Y'hc'U'ZU' 'hk]k'Hi fb]h]b' mci 'a UmiUdd'm'Zcf'Ub'YI HYbg]cbz'Vi hrci
a i ghfYh]b' mci f'h]W_Yhbi a VYf'Z'ca '9I HYfbU'Gi ddcfhfU'cb['k]k'Ubmc'hYf'fY'Yj UbhXcW a Ybhgk'hc
]bW' XY'Ug'Yj]XYbW'hc'gi ddcfhrci f'YI HYbg]cb'Udd']W]h]cb" zmc i 'Ya U]'9I HYfbU'Gi ddcfhrci 'k]`
Ui'hc'a U]W'W'm'fYW'j] Y'U'h]W_Yhbi a VYfz'Vi h]Zmc i 'HY'Yd\cbY' mci 'k]`b'YX'hc'gdYW]W'W'm'Ug_'Zcf'cbY"
Hi fb]h]b'U'gc'dfcj]XYg'i dXUHY'g'cb'hkY]f'gmghYa 'ghU'h'g'cb'Hk]HYf"

; YbYfU'mz'UggYgga YbhHUg_g'a i ghVY'gi Va]HYX'Y'YW'fcb]W'mj]U'Y]k'Yf'Hi fb]h]b'cf'U'A ccX'Y
Ugg][ba Ybh' b]bg]UbW'g'k \YfY'h']g']g'bchidcgg]V'YZ]hk]`VY'g'UHY'X'cb' mci f'Wci fgY'g'A ccX'Y'g]HY'k]k
U'HYfbU]h] Y'gi Va]gg]cb'XYh]g"

@UH'5ggYgga YbhDYbU'h]Yg

Gh XYbHg'UfY'fYgdcbg]V'Y'Zcf'hY'gi Va]gg]cb'cZUggYgga YbhHUg_g'Vmi'hY'f'Yei]fYX'XUHY'g'UbX'h'a Yg"
8YdYbX]b['cZkY'YI HYbhcZXY'Um]b'hY'gi Va]gg]cb'cZUb'UggYgga YbhHUg_'dUgh'hY'Xi Y'XUHY'UbX'h'a Yz

- K cf_gi Va]hYX`%\$`hc`%-`XUmg`UZhYf`h`Y`gh]di`U`hYX`XYUX`]bY`k`j`VY`UggYggYX`UbX`ZYXVUW`dfcj`]XYX`Vi`hU`a`Uf`_`cZnYfc`k`j`VY`fYW`fXYX`" `Z`hY`k`cf`_`k`ci`X`\\Uj`Y`fYW`j`YX`U`dUgg`a`Uf`_`Vi`hZcf`hY`U`hY`bYgg`UbX`hY`k`cf`_`]g`U`W`a`di`gcfm`W`i`fgY`W`a`dcbYbhf`i`fX`Y`fYei`]fYa`YbH`Z`U`gh`XYbhk`j`VY`XYYa`YX`hc`\\Uj`Y`a`Yh`h`UhfYei`]fYa`Ybh`/`
- K cf_gi Va]hYX`&\$`cf`a`cfY`XUmg`UZhYf`h`Y`gh]di`U`hYX`XYUX`]bY`k`j`bchVY`U`W`W`d`hYX`Zcf`UggYgga`Ybh`UbX`k`j`fYW`j`Y`bc`ZYXVUW`z`a`Uf`_`cf`[`fUXY`" `Z`hY`UggYgga`Ybh`Ug`_`]g`U`W`a`di`gcfm`W`a`dcbYbhc`Z`hY`W`i`fgY`U`gh`XYbhk`j`fYW`j`Y`Ub`l`bgUhgZUW`c`fm`:`U`]`fl`:`k`[`fUXY`Ug`U`fYgi`hc`Z`i`bgUhgZUW`c`fmdYfZcf`a`UbVW`]b`Ub`YggYbh]U`W`a`dcbYbhc`Z`hY`W`i`fgY`"

H\]g`]bZcf`a`U`h`cb`]g`U`gc`Uj`U`j`\$`

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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'U_Y'a Ubm Zcfa gž Zca 'XY'VYfUHY'WXYU]b['hc'UWVXYbU`mWčdm]b[Zca 'U'gci fW'k]h'ci hUW_bck 'YX[Ya YbH'

I BGK '[fci dg'd`U[]Uf]ga]bhc'hY'Zč`ck]b['WUHY[cf]Yg.

7cdm]b[.i g]b['hY'gUa Y'cf'j Yfmg]a]Uf'k cfXg'hc'hY'cf][]bU`hYI 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[YgžUfhUbX'XYg][b'dfc'YWgžUg'k Y`Ug'dfYgYbU]cbg'k \YfY'gca YcbY'dfYgYbhg'UbchYf'g'XYUg'cf'k cfXg'k]h'ci hWYX]H'

#Uddfcdf]UHY'dUfUd\fUg]b[.7 \Ub[]b['U'Zk 'k cfXg'UbX'd\UgYg'k \]Y'a cghmifYU]b]b['hY'cf][]bU'gfH' W'fY'UbX#cf'dfc[fYgg]cb'cZ]XYUg'cZhY'cf][]bU'žUbX']bZcfa U]cb'k]h'ci hUW_bck 'YX[Ya YbH' 'H\g'U'gc'Udd'Yg']b'dfYgYbU]cbg'k \YfY'gca YcbY'dUfUd\UgYg'UbchYf'g'XYUg'cf'k cfXg'k]h'ci hWYX]hUbX'hc'd]YW]b['hc[YhYf'ei chYg'UbX'dUfUd\UgYg']bhc'U'bYk 'k \c'Yžk]h'ci hUddfcdf]UHY'fYZfYbW]b["

7c`i g]cb.'k cf_]b['k]h'chYfg'Vi hdUgg]b['cZhY'k cf_'Ug'U'dYfgcb'g']bX]j]Xi U'k cf_"7c`i g]cb'U'gc]bW' XYg'dfcj]X]b['mci f'k cf_'hc'UbchYf'gh'XYbhVYZc'fY'hY'Xi Y'XUHYžcf'Zc'f'hY'di fdcgY'cZhYa d`U[]Uf]g]b['UhUbmi]a Yž'dUm]b['UbchYf'dYfgcb'hc'dYfZc'fa 'Ub'UWUXYa]WUg_žghU']b['cf'UWči]f]b[UbchYf'dYfgcb'g'UWUXYa]Wk cf_'UbX'Wčdm]b[]h'čZf]b['hc'Wča d'YH'UbchYf'dYfgcb'g'k cf_'cf'gYY_]b[dUma YbhZc'Wča d'Y]b['UWUXYa]Wk cf_"

#Uddfcdf]UHY'W]U]cb.'7]]b['gci fW'g'k \]W\Uj Y'bchVYYb'fYUXžk]h'ci hUW_bck 'YX[]b['hY'"gYWčbXUfm' gci fW'Zca 'k \]W'_bck 'YX[Y'cZhYa '\Ug'VYYb'cVU]bYX"

8i d']WU]cb'f'fY'Zd`U[]Uf]ga "L'gi Va]H]b['mci f'ck b'k cf_ž]b'k \c'Y'cf']b'dUfřk \YfY']h\Ug'dfYj]ci g'm VYYb'dfYdUfYX'cf'gi Va]H'X'Zc'f'UbchYf'UggYgga Ybhcf'Wč' f'gY'Uhi BGK 'cf'UbchYf'i b]j Yfg]m'

7cffYW'fYZfYbW]b['dfUW]W'g.

7 ci fgY'GWXYXi `Y

[J\]yk`WUgg`ĥa`YĥUV`Y](#)

H]a`YĥUV`Y`

8UHŸ	HmŸY	7cbĥYbh
K YY_%`&`'>i`m!`!&-`>i`m	@YWĥi`fY	<p>ĥbĥfcXi`Wĥ]cb`ĥc` ; YbXYf`]b`7`\\]bU</p> <p>H\]g`k`YY`_`dfcj`]XYg`Ub`cj`Yfj`]Yk`c`ZH`Y`Wĥi`fgY`ž`Ugg`Y`gga`Y`bh`Ub`X`_`Y`m`Wĥ`b`W`d`ĥg`"`ĥ]bĥfcXi`Wĥ]g`ĥ`Y`a`U`]b`ĥ`Y`a`Y`g`ž`c`f`ĥ`Y`Wĥi`fgY`"</p>
K YY_&.`" ` \$`>i`m!`)" 5i`[i`gh	@YWĥi`fY	<p>A`U`ff]U[`Y`ž`Z`J`a`]`m`Ub`X`g`c`W`Y`m`i`"</p> <p>F`Y`U`X`]b[`'`%`'8`U`j`]g`ž`8`" `&\$`%(`'`C`b`ĥ`Y`" `]a`]`ĥg`c`Z`d`Y`f`g`c`b`U`" `U`i`ĥ`c`b`c`a`m`D`F`7`@`U`k`'`U`b`X`ĥ`Y`" `ĥ]g`ĥ]i`ĥ]c`b`c`Z`A`U`ff]U[`Y`ž`]b`8`U`j`]g`8`" `U`b`X` :`f`]Y`X`a`U`b`ž`G`" `f`Y`X`g`ĥ`I`[`ĥ`Wĥĥ` :`g`e`T`S`' `V`e`ĥ`S`' `V`>`a`h`Wĥĥ` ,`?`S`c`d`[`S`Y`W`S`' `V`e`W`]g`S`f`ĥ`[` :`a`' `Y`]a`' `Y`ĥ`F`S`[i`S`' `V`S`' `V`g`d`T`S`' `5`Z`[`S`ĥ`G`ĥ`U`b`ž`c`f`X`' `I`b`]`Y`f`g`]m`D`f`Y`g`g`ž`d`d`" `(%`d`*`%`"</p> <p>F`Y`U`X`]b[`'`&.`'5`ĥ`U`b`Y`ž`="`&\$`%`*`'`f`G`Y`Wĥ`b`X`'7`\\]X`8`Y`W`]g`]c`b`g`]b`7`\\]b`U`f`ĥ`B`a`b`g`S`f`[a`' `S`' `V`6`W`ĥ`W`a`b`_`W`f`D`W`ĥ`W`ž`(`&`f`ĥ`ĥ`.)`%`!`'`*`"</p>
K YY_`" `.*`5i`[i`gh!`!`%& 5i`[i`gh	@YWĥi`fY	<p>A`U`ff]U[`Y`'`U`b`X`'a`c`V`]m</p> <p>F`Y`U`X`]b[`'`%`'7`c`b`g`ĥ`U`V`Y`ž`B`" `&\$`\$(`'`ĥbĥfcXi`Wĥ]c`b`7`f`c`g`g`!`V`c`f`X`Y`f`a`U`ff]U[`Y`g`ž`[`Y`b`X`Y`f`Y`X`'a`c`V`]m`ž`U`b`X`[`'c`V`U`" `m`d`Y`f`[`U`a`m`ž`]b`7`c`b`g`ĥ`U`V`Y`'B`" `f`Y`X`" `ĥ`7`f`c`g`g`!`V`c`f`X`Y`f`A`U`ff]U[`Y`g`.;`Y`b`X`Y`f`U`b`X`'a`c`V`]m`]b`H`f`U`b`g`b`U`ĥ]c`b`U`"5`g`]U`ž`D`\\]U`X`Y`d`\\]U`ž`I`G`5`.' `I`b`]`Y`f`g`]m`c`Z`D`Y`b`b`g`m`j`U`b`]U`D`f`Y`g`g`ž`d`d`" `(%`d`*`%`"</p> <p>F`Y`U`X`]b[`'`&`" `K`U`b`[`ž`D`U`b`'&\$`%`ž`f`i`c`f`Y`][`b`i`f`Y`U`ĥ`Y`X`a`U`ff]U`Y`]b`Wĥ`b`ĥ`Y`a`d`c`f`U`f`m`7`\\]b`U`%`+-`!`&\$`%`f`i`]b`'N`U`b`[`L`" `K`" `U`b`X`'N`\\U`c`L`" `@`" `f`Y`X`g`ĥ`<`U`b`X`V`c`c`_`c`b`ĥ`Y` :`U`a`]`m`U`b`X`'A`U`ff]U[`Y`]b`7`\\]b`U`ž`9`X`k`U`f`X`'9`U`f`D`i`V`]g`ĥ`]b[`ž`d`d`" ` ,`-`!`%`\$`+`"</p>
K YY_(` :`%`'5i`[i`gh!`!`%`-`5i`[i`gh	@YWĥi`fY	<p>9`Wĥ`b`c`a`]W`g`U`b`X`'i`f`V`U`b`]n`U`ĥ]c`b</p> <p>F`Y`U`X`]b[`'`%`" `?`]a`ž`>`c`b`[`g`i`b`[`'`&\$`%`ž` ;`Y`b`X`Y`f`X`]Z`Y`f`Y`b`W`]b`Y`a`d`c`m`a`Y`b`h`U`b`X`]b`Wĥ`a`Y`]b`7`\\]b`U`g`'U`V`c`i`f`a`U`f`_`Y`ĥ`ĥ`H`\\Y`>`c`i`f`b`U`'c`Z`9`U`g`ĥ`5`g`]U`b`'5`Z`]f`g`ž`d`d`" `(%`d`)&`"</p> <p>F`Y`U`X`]b[`'`&`" `<`U`b`g`Y`f`ž`5`" `&\$`\$)`ž`'H`\\Y` ;`Y`b`X`Y`f`Y`X`'F`]W`ĥ`6`c`k`' :`H`\\Y`'G`Y`I`i`U`'D`c`]`ĥ]W`g`c`Z`G`Y`f`]W`'K`c`f`_]b`'i`f`V`U`b`</p>

		7\]bU'ž; YbXYf'UbX'GcWYmJ c""%- žBc") ždd") , %d* \$\$
K YY_) : &\$'5i [i gh! '& 5i [i gh		

		<p>F YUX]b[' &'>YZZYgm9""UbX`M` <U]e]b[' &\$%) ž '7 ca a YfW]U`GYI` ']b`>YZZYmg`UbX`M` <U]e]b['fYXgE` E Wj [` 5 Z[` Sž7 Ua Vf]X[Y. `Dc`]mDfYggždd"" - *!%%- "" .</p>
<p>K YY_`- .`%+`GYdHya VYf!` &` `GYdHya VYf`</p>	<p>@YWh fy`</p>	<p><YU`h` F YUX]b[`%'`@YYž<mYccb`>i b[`&\$%(žfi YUFYgg `cj YžXYUh`cZ`X][b]m`Z`a U`Y`gi]WXY`UbX`[YbXYfYX gi V`Y`W]j]m]b`fi fU`bcfH`7`\\]bUfFZW5Z[`S <agd Sž J c""+%ž`dd""&`!(`&"</p> <p>F YUX]b[`&</p>

<p>K YY_% . '&&'C WcVYf! &, 'C WcVYf</p>	<p>@YWi fy</p>	<p>cZ\Y<]ghc fmcZGdcfždd"&(!&* *" A YX]U'UbX'Dcdi `Uf'W `hi fy` F YUX]b[`&'K U`]gž7 ""&\$%) `; YbXYf'UbX'W]bU'g cb`bY'Wbfgc\]d`dfchYghW `hi fy'ž8W_ [`ef? W[S E fgV[WžJ c""%) ž'bc"&ždd""&&' !&' , " F YUX]b[" ""@]@ n\ci ž&\$%) `žmci 'UFY'h\Y'cbY.</p>
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F Ygci fWg

DfYgWf]VYX`F Ygci fWg`

fYZf`hc`Wci fgY`gWXYXi`Y`

F YWca a YbXYX`F Ygci fWg

9Xk UfXgž`@`&\$\$, ž9 W VWd Ba`f[Uel S` V 6W_ aUdSuk, I a_ W e EgXcSYW[5Z[SžGHUbZcfXž75žGHUbZcfX
I b]j Yfg]mDfYgg"

9j Ubgž<`"%- +žI a_ W S` V eWj gS`fk [5Z[S, Va_ [S` fV[eUagdeWe aXXW_ S`WeWj gS`fk S` V YW VWd
e[UW#+&+ž7 Ua Vf]X[Y. `Dc`]mDfYgg"

Gcb[; Yb[`UbX`<]fXž8`"&\$%(ž? W S` V ? SeUg`f [f]Wé [5a` fW_ badSck 5Z[Sž@Y]XYbžBYhYfUbXg. `6f]""

K Ub[`DUb`&\$%) ž>ahWS` V ? Sd[SYW[9`aTS`f [Y 5Z[Sž5V]b[XcbžCI cb`/BYk `Mcf_`F ci hYX[Y"

N\Ub[`L]Uck Y]`UbX`N\Uc`L]Uc`@`fYXgk&\$\$ ž< UbXVcc_`cb`hY` : Ua]`mUbX`A Uff]U[Y`]b`7\]bUž9Xk UfX
9[Uf`Di V]g\]b[

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

H\]g`Wci fgY`k]`VY`Yj U`i UhYX`j]U`hY`A m7ci fgY`9I dYf]YbW`dfcW`ggYg`Uh`hY`YbX`cZ`hY`gYa YghYf`Zmci
\Uj Y`gi [[Ygh]gcbg`Zcf`k Umg`hc`]a dfcj Y`hY`Wci fgY`Xi f]b[`hY`gYa YghYfžd`YUgY`ZY`ZY`hc`Wca Y`UbX`hU`
hc`i g"K Y`k Y`Wca Y`mci f`ZYXVUW`"

⇒ U[Y`7 fYX]h

D\chc`VmGUa UbhU`Gcd\]U`cb`i bgd`Ug\

7F ⇒ CG

7F ⇒ CG`Dfcj]XYf`7cXY. \$\$\$- , ;