

# 7ci fgY<sup>·</sup>Cj Yfj ]Yk

# GhJZZ 7 cbhJWh 8 YhJ] `g

7cbj Ybcfg

B Ua Y	9a U]`	5j U]`UV]`]lm	@cWUhjcb	D\cbY
AUHNYK K]_]bgcb	g g	, Ua!) da "	7 cbgi `HUH]cbg Vm 5ddc]bha Ybh	\$()&'%*- **\$

GW.cc`7cbHJWh ≠bZcfa Uh]cb

## 7ci fgY 8YHJ] g

## 7 fYX]hDc]bhg\*\*

### Gi a a UfmcZh\Y'7ci fgY

<Uj Y'mci 'Yj Yf'k cbXYfYX'\ck 'W]a UhY 'W\Ub[ Y'UZYWg'h\Y']j Yg'UbX']j YocXg'cZh\Y'dccfYghdYcd'Y']b
XYj Y'cd]b[ 'Wci bhf]Yg3'H\]g'Wci fgY'Yl dcgYg'mci 'hc'\_Ymh\Ya Yg']b'h\Y'W]a UhY 'W\Ub[ Y'UXUdhUh]cb'UbX
]bhYfbUhjcbU':XYj Y'cda YbhXYVUhY 'UbX'YbUV'Yg'mci 'hc'Wf]h]WU'`mi bXYfghUbX'h\Y'W]a UhY 'W\Ub[ Y'UbX
XYj Y'cda Ybh]ggi Yg'UZZYWhb[ 'h\Y'WUdUW]mmUbX'k Y'`!VY]b[ 'cZ'cWU'`Wca a i b]h]Yg']b'5i ghfU']U'UbX
XYj Y'cd]b[ 'Wci bhf]Yg"'H\Y'Wci fgY'Yl Ua ]bYg'\ck ''cWU'`'Yj Y'`fYgdcbgYg'hc'W]a UhY 'W\Ub[ Y'UfY g\UdYX'Vm
a i 'h]!'Yj Y'`W]a UhY'[ cj YfbUbW'dfcWyggYgžYl dcgYg']bYei ]h]Yg']b'UXUdhUh]cb'fYgdcbgYg'hc'W]a UhY 'W\Ub[ Y
]a dUWgž'UbX'Yl d'cfYg'\ck 'h\YgY'UXUdhUh]cbg'Wbb'VYhhYf'fYgdcbX'hc'h\Y'bYYXg'cZdccf'UbX
X]gUXj UbhU[ YX'Wca a i b]h]Yg</pre>

### 7 ci fgY @YUfb]b[ Ci hMca Yg

- %" ⇒ XYbhjZmUbX`YI d`U]b`h\Y`fUb[Y`cZWcbWYdhgždc`]W]Yg`UbX`dfUWf]WY`cZW]a UhY`W\Ub[Y`UXUdhUh]cb`]b fY`Uh]cb`hc`XYjY`cda Ybhghi X]Yg
- &" 7 f]hJWJ``miUbU`mgY`WJa UhY`WXUb[Y`UXUdhUhJcb`dc`]WmUbX`dfUWhJWYg`]b`X]ZZYfYbhWcbhYl hg`i g]b[`WJgYgh X]Yg
- "DfcdcgY'dUh\k Umg'UbX'cdh]cbg'Zcf'fYXi Wjb[ 'Wca a i b]hmj i 'bYfUV]`]hmUbX'Yb\UbWjb[ 'fYg]`]YbWY
- ("I bXYfftU\_Y`Wf]fjWU``gcWjU``gWjYbW'`fYgYUfW\``UbX`UbU`mg]gž`]bXYdYbXYbhmUbX`]b`U`HYUa Ybj ]fcba Ybhž'UbX`Z ff\Yf`XYj Y`cd`fYgYUfW\ž']bHYfdYfgcbU`ž'Wca a i b]WUfjcb`UbX`HYUa k cf\_`g\_]``g

### HYUWX]b[ 'GhfUhY[]Yq'

5```UgdYWg`cZh\]g`Wci fgY`Zc``ck 'U`ghi XYbh'ZcW gYX`UddfcUW\hc`hYUW\]b[`UbX``YUfb]b["\`H\Y``YUfb]b[ci hWca Yg`cZh\]g`Wci fgY`k]```VY`UXXfYggYX`h\fci [\`U`VU`UbWXX`Wca V]bUh]cb`cZX]ZYfYbh'hYUW\]b[UWh]j ]h]Yg"\Mci `k]```UWh]j Y``mdUfh]W]dUhY`]b`gYa ]bUfgž`]b!WUgg`fYUX]b[žX]gW gg]cb`[fci dg`UbX`cb`]bY A ccX`Y`Zcfi a g"`GYa ]bUfg`UfY`WcbWY]j YX`cZUg`Ub`]bhYfUWh]j Y``YUfb]b[`UWh]j ]hmk\YfY`mci `WUb`Ug\_ei Ygh]cbgž`WUf]ZmWcbWYdhg`UbX`YI d`cfY`gc`i h]cbg`hc`W]a UhY`W\Ub[Y`dfcV`Ya g"

## 5ggYgga Ybh

### 5ggYgga YbhHUg\_g

5ggYgga Ybh'HJg_	K Y][\h	8iY'8UHY	Gh XYbh@YUfb]b[ Ci hWca Yg 5ggYggYX
9ggUmi	' \$1	\$&#\$+#&\$&%`%%) - `DA	%ž.' ž.(
Dc`]Wm5bU`mg]g'FYdcfhi	) \$1	\$*#\$, #&\$&%`%%) - `DA	&ž <sup>.</sup> ' ž <sup>.</sup> (
5gg][ ba Ybh`±b!WUggʻ; fci d DfYgYbЮŊcbʻ	&\$I	Bch5dd`]WUV`Y	&ž' ž'(

### 5ggYgga Ybh'8YHJ]`g

5ggYgga Ybh% 9ggUm

GhUfhXUhY. Bch5dd`]WUV`Y

@Yb[h\., \$\$ k cfXg

8 YHJ]`q.

. . .

Ghi XYbhgʻUfYʻfYei ]fYXʻhcʻk f]hYʻUbʻ]bX]j ]Xi UʻYggUmcbʻWcbWrdhi UʻUXj UbWrgʻfY`UhYXʻhcʻW]a UhYʻj i ʻbYfUV]`]hm UbXʻUXUdhUhJcbʻ]bʻfY`UhJcbʻhcʻYb\UbW]b[ 'Yei ]hUVʻYʻci hWca Ygʻ]bʻUXUdhUhJcbʻhcʻW]a UhYʻWkUb[Y"'H\]gʻYggUm g\ci `X'VY`i dʻhcʻ, \$\$`k cfXgʻ]bʻYb[ h\ YI Wi X]b[ 'fYZYfYbWrg"

5ggYgga Ybh'Wf]hYf]U'UbX'ghUbXUfXg'UfY'WYUf'mci h]bYX']b'h\Y'Wci fgY'ci h]bY'UbX'X]gW ggYX'k ]h\'h\Y gh XYbhg'Uhh\Y'VY[]bb]b['cZh\Y'gYa YghYf"'9ggUmk]``VY'a Uf\_YX'UbX'fYhi fbYX'hc'ghi XYbhg'k ]h\'k f]hh'b ZYYXVUW\_'UhhUW\YX'k ]h\'h\Y]f'fYdcfh'UVci h'''k YY\_g'UZhYf'h\Y'Xi Y'XUhY'cZh\Y'fYdcfh''H\Y'ZYYXVUW\_'k]`` WYUf'mci h]bY'\ck 'ghi XYbhg'Wbb']a dfcj Y'h\Y]f'`YUfb]b['ci hWca Yg"

#### 5XX]h]cbU`XYhU]`q.

7\ccgY'cbY'ei Ygh]cb'Zfca 'h\Y'`]ghcZei Ygh]cbg'VY`ck.

#ž;`Vgefd[S^[1] Sf[a` Xad fZWi adVie i WS^fZ[Wef`Sf[a`e 'SdYWk dW[WW a` WJ b^a[f[`Y UZWSb S`V ShS['STW dWeagdJWel 'Sj W h[da`\_ W fS^dW/g 'Sf[a`el S`V WJ badf[`Y`WYSf[hWW] fWd S^f[We egUZ Se ba^gf[`Y [Vgefd[We S`V WJ fdSUf[a` bda WUfe fa fZW9 'aTS^E agfZžE Zag^V fZW9 'aTS^E agfZ TWegT WUf fa W h[da`\_ W fS^Si e S`V dW/g 'Sf[a`e Tk Y 'aTS^SgfZad[f[We fZSf fZWi WS^fZ[Wd9 'aTS^@adfZ i Se`af egT WUf fa ]

\*WhWelle fZWdWS dMeba`e[T[1fk fa SUUWbfU1\_SfWdWgYWWelS`V [Xeali ZaeWdMeba`e[T[1fk [e [fS`ViZk1

 $FYWca\ a\ YbXYX`fYUX]b[\ .`BUk\ fcm_]\check{z}F"`f&$\%(\ E`f\underline{''}\ ]a\ UHY`A\ ][\ fUh]cb``UbX`A\ cfU``F\ Ygdcbg]V]`]lmf\check{z}'7\ fZ\ [UeBa'[UkS`V7`h[da`_W'fl\%+f\%L`*-!, +"]$ 

% 5 \( \) SfW9 \( \) W\( \) Y \( \) W\( \) Y \( \) ha \( \) We hSdage fWUZ` a \( \) Y \( \) Y a hSf[a` e fa dW\_ a hWYdWW ZageWYSeWe \( \) ZW7 SdZ ie Sf\_ a eb Z WdW a d Sha [V fZ W \) [ee [a` a XYdWW ZageWYSeWe [ fZ W \) (def b \( \) SUWz | ZSf SdWfZ W i [V \) USf[a` e S` V \( \) WZ [US \( \) [eeg \( \) We eg \( \) eeg \( \) Y 5 \( \) SfW9 \( \) WaW \( \) Y \( \) W\( \) W\( \) Y 1

 $F YWca \ a \ YbXYX `fYUX]b[..7cl `YhU`"`f&$\% \ £'f<u>6`i ffYX`@bYg.'H\Y`9h\]Wg'UbX'Dc`]WmcZ; fYYb\ci gY'; Ug E Ya cj U`'UhGWUY</u>fi'8da` f[Wde [ 7`h[da` _ W fS^E U[W UW'$ 

("'-Z'mci 'k ci `X``]\_Y'hc'dfcdcgY'mci f'ck b'ei Ygh]cbž'mci 'UfY'k Y`Wca Y'hc'Xc'gc"'D`YUgY'Ya U]`'UbX'X]gW gg VYZcfY\UbX"

 $\label{thm:continuous} \begin{tabular}{ll} Hi & fb \end{tabular} $$ Hi & fb \end{tabular} $$ h' \end{tabular} $$ I' \end{tabular} $$$ I' \end{tabular} $$$ I' \end{tabular} $$ I' \end{tabular} $$$ I' \end{tabular} $$$ I' \end{tabular} $$$ I' \end{tabular} $$$ I' \e$ 

5ggYgga Ybh& 'Dc`]Wm5bU`mg]gFYdcfh

GhUfhXUhY. Bch5dd`]WUV`Y

@Yb[h\. '%) \$\$ k cfXg

8 YHJ] g.

. . .

Ghi XYbhgʻUfYʻfYei ]fYX`hcʻk f]hYʻUʻdc`]\miUbU`mg]gʻfYdcfhVm]bj Ygh][ Uh]b[ 'Uʻ\WJgY`ghi XmfY`UhYX`hcʻUbmcbY`cZh\YgY`h\Ya Yg. 'ZcfYghž'U[ f]\w`hi fYž'ZccX`gYW f]\mž'\wcUghU``gYhhYa Ybhgž'UbX`i fVUb]gUh]cbž']b`Uʻ\wci bhfmfcf`UfY[ ]cbŁ"`H\Y`fYdcfhg\ci `X`VY`i d`hc`\%) \$\$`k cfXg`]b``Yb[ h\`YI Wi X]b[ `fYZ\fYb\\yg''`

5 ggYgga YbhWf]hYf]U'UbX'ghUbXUfXg'UfY'WYUf`mci h]bYX']b'h\Y'Wti fgY'ci h]bY'UbX'X]gW ggYX'k ]h\'h\Y ghi XYbhg'Uhh\Y'VY[]bb]b['cZh\Y'gYa YghYf"'Dc`]Wm5bU`mg]g'F Ydcfhik ]```VY'a Uf\_YX'UbX'fYhi fbYX'hc ghi XYbhg'k ]h\'k f]hhYb'ZYYXVUW\_'UhhUW\YX'k ]h\'h\Y]f'fYdcfh''H\Y'ZYYXVUW\_'k ]```WYUf`mci h]bY'\ck 'ghi XYbhg WUb']a dfcj Y'h\Y]f'`YUfb]b['ci hWta Yg"

#### 5XX]h]cbU`XYhJ]`g.

 $\label{thm:condition} $$H^{g'WUgY'gh'Xm'UbU'mg]g'fYdcfh'dfcj_XYg'mci_k_h'Y'cddcfh'b]m'hc']bj_Ygh][UhY'Ub']ggi_Y'cZmci_f']bhYfYgh_b!XYdh\_UbX'k_f]hY'U'dc']Whlcf]YbhYX'fYdcfh'GY'YWhcbY'hcd]WVY`ck.$ 

%" ₺X][YbcigF][\hg`UbX`fk`mXfc\WUfVcb`WjhjnYbg\]dfi]b`6c`]j ]U

FYWca a Ybxyx fyux]b[.:5bh\]ugžD"'f&\$%\* \z'(\bx)[Ybci g'DYcdYg'Ubx'h\Y'BYk'91 \fuVV]cb.: fca

&"fi fYYbk Ug\]b[fiUbX:WcfdcfUhY:W]a UhY:UWh]cb:]b:h\Y:I G5

F YWca a YbXYX'fYUX]b[.'@Ug\]hYk ž'5"'f&\$&%\z''<u>7 cfdcfUhY'i dhU Y'cZh\Y'Gi ghU]bUV'Y'8 Yj Y'cda Ybh; cU'g. A YfY'[fYYbk Ug\]b['cf'Ub'UXj YbhcZ]bghhi h]cbU''W\Ub[Y3'z'<agd S^aX; \text{fWd Sf[a` S^4ge[\text{ Wee Ba'{Uk"'(... \% (!&\\$\\$")}"]}}</u>

' "I g]b[ ]bX][ Ybci g \_bck `YX[ Y ]b UXUdHJh]cb d `Ubb]b[ ]b 5i gHfU`]U

F YWca a YbXYX`fYUX]b[.'Bi fgYm'6fUmžA "'f&\$% Ł"'<u>C`X`k Umg`Zcf`bYk 'XUmg.'5i ghfU`]Ub`±bX][Ybci g`dYcd`Y UbX`W]a UhY`WXUb[Y'Z`FZW;` fWd Sf[a` S^<agd S^aX<gef[UWS` V E gefS[`ST[{fk".&(f) Ł '(+'!(, \*")</u>

("fki a Ub GYW f]mfiUg U ZfUa Yk cf\_ Zcf W]a UhY W Ub[Ya]h][Uh]cb fl `cVU`Ł

F YWca a YbXYX fYUX]b[.:8Yk i `Zizs"'f&\$% E"''<u>7 cbffUghb[ 'ZfUa Yg']b'dc`]\miXYVUhYg'cb'W]a UhY'WXUb[ YUXUdfUh]cb'</u>zi ;D7E 5 <u>{</u> SfW5ZS` YWz'(f(E'' &%' ' \$"

) "9I h]bWh]cb fYVY``]cb UbX h\Y Ya Yf[ YbWY cZW]a UhY UWh]j ]ghcf[ Ub]nUh]cbg fJ `cVU`Ł

\*"'7`]a UHY'W\Ub[Y'i bXYf'Ui h\cf]HUf]Ub'fY[]a Yg. 'H\Y'I B g'YZZYWNj Y'YI]h'Zfca 'A mUba Uf

F YWca a YbXYX`fYUX]b[.:K ]bž'H'@''f&\$&%\Z`'<u>l B`gi gdYbXg`W]a UhY`k cf ik ]h\`A mUba Uf`[cj Yfba Ybh Zc``ck ]b['a ]`]hUfmWci d'</u>Z'7`]a UhY`< ca Y`BYk g"'

+"'@cg]b['G][\h3'7`]a UhY'W\Ub[Yžh\Y'XYj Y`cda Ybh'W\U``Yb[YžUbX'h\Y'dfcgdYWhcZgdUW\Wc`cb]nUh]cb

F YWca a YbXYX`fYUX]b[.`5b]a Ug\Ui bž`7"`f&\$% ŁZ`'<u>H\Y`WUgY`U[U]bghWc`cb]n]b[``gdUWY`hc`gUj Y`\i a Ub]lmi</u>ž` Haj žUa\_

 $K \ Yb \ k \ f]h]b[ h Y UbU mg]gž Wcbg]XYf.$ 

- % K \Uhjg`h\Y`jggi Y`UbX`k\Uhjg`h\Y`dfcV`Ya 3`-g`jhfYU``mU`dfcV`Ya 3`-g`h\Y`fdfcV`Ya fiUg`mci `ZfUa Y`jh UhfUW\YX`hc`ch\Yf`jggi Ygž'cf`dUfhcZU'V][ [Yf'dfcV`Ya 3`K \c`UfY`h\Y`ghU\_Y\c`XYfg`jbj c`j YXž'UbX k\UhXcYg`h\Yjf`jbj c`j Ya Ybh`cc\_\_``]\_Y3
- $\& ``K \setminus Uh]g'h Y'YI]gh]b['dc`]WhgWUdY'gi ffci bX]b['h ]g'dfcV`Ya 3`5fY'h YfY'dc`]W]Yg']b'd`UWY'h Uh UddfcUW 'h Y'dfcV`Ya ž'cf'UhY'a dhhc'UddfcUW 'h Y'dfcV`Ya 3$
- '"=Zh\YfY`UfY`dc`]WJYg`]b`d`UWYž'UfY`h\Y`YZZYWfjY3`<ck`UfY`h\Ym#UfY`h\YmbchYZZYWfjY`]b`fYgc`j]b[h\Y`dfcV`Ya3`8c`h\Ym`YUX`hc`ch\Yf`]qqiYq3
- ("=g'h\YfY'U'j]UV`Y'cf'a cfY'j]UV`Y'gc`i h]cb'hc'h\Y'dfcV`Ya 3'=Zgcž'h\Yb'k\Uh']g']hiUbX'k\m#\ck']g']h j]UV`Y3'=Zbchž'h\Yb'k\mbchž'UbX'k\Uh'Yj]XYbWY'Xc'mci i gY'hc'VUgY'h\Uh'WU]a 'cb3

5ggYgga Ybhgʻg\ci`X`VY`fYZYfYbWXX`]b`UWWcfXUbWY`k]h\`h\Y`E UZaa^aXE aU[S^E U[W UWe D WWWW U[`Y 9 g [VWžUj U]`UV`Y`Uh\<u>hhdg.##gc W[U`gW]YbWYg"Ufhg"i bgk "YXi "Ui #ghi XYbhg#fYgci fWYg#dc`]W]Yg! [i ]XY`]bYg#</u>

Hi fb]hjb gYhjb[. H\]g Ugg][ ba Ybh]g gi Va ]hYX h\fci [\ Hi fb]hjb UbX gh XYbhg Wub gYY Hi fb]hjb g]a ]`Uf]hm

fYdcfhg"

5ggYgga Ybh' . 5gg][ ba Ybh =b!WUgg; fci d DfYgYbhUh]cb

GHJfhXUhY. Bch5dd`]WUV`Y

@Yb[h\. &\$g`]XYg`UbX`gi a a Ufm

8YHJ]`q.

. . .

Gh XYbhg k]``VY`fYei]fYX`hc k cf\_`]b`U`[fci d`h\fci [\ci hh\Y`gYa YghYf`UbX`XY`]j Yf`U`[fci d`dfYgYbhUh]cb`]b h\Y`WUqq"

5ggYgga YbhWf]hYf]U'UbX'ghUbXUfXg'UfY'WYUf'mci h]bYX']b'h\Y'Wti fgY'ci h]bY'UbX'X]gW ggYX'k ]h\'h\Y gh XYbhg'Uhh\Y'VY[]bb]b['cZh\Y'gYa YghYf'': YYXVUW\_cb'dfYgYbhUh]cb'k]```VY'dfcj ]XYX'cb'UbX'UZhYf'h\Y dfYgYbhUh]cb'''DYYf'ZYYXVUW\_k ]```U'gc'VY'cVhU]bYX'Zcf'gh XYbhg'H\Y'ZYYXVUW\_k ]``'WYUf'mci h]bY'\ck gh XYbhg'WUb']a dfcj Y'h\Y]f''YUfb]b['ci hWta Yg''

#### 5XX]h]cbU`'XYhU]`g.

#D'[fci dg'cZ'!(ž'ghi XYbhg'UfY'hc'dfYgYbhU'g]a i `UhYX'[fUbhdfcdcgU`'dfYgYbhUh]cb'cZUVci h' \$'a ]bi hYg'hc Ub']bhYfbUh]cbU`'Z bXYf'h\Uhigi a a Uf]nYg'U'W ffYbhW]a UhY'W\Ub[Y']ggi Y'cZh\Y]f'W\ccg]b[']b'U'WcbhYl hcZh\Y]f'W\ccg]b['Zcf'U'dfcYWhc UXXfYgg]b['h\Y']ggi Yž'UbX'^ gh]ZmZ bX]b['Zcf'U'dfcYWhc UddfcUW\'cf'fYgc`j Y'h\UhW]a UhY!W\Ub[Y'fY`UhYX]ggi Y"

Gca Y'Yl Ua d'Yg']bWl XY.

EgTe[V][ Y XaaVŽodaaXZage[ Y [ 6ZS] Sł 4S Y SVWeZž

I adjeZabe XadegefS[`STWU/\_SfWZbdaaXSYdaZXadNefdk[`3eeS\_ł;`V[S

5`cb[ 'k ]h\ 'h\ Y 'dfYgYbhUh]cbž'YUW\ [ fci d'a Ya VYf'k ]```gi Va ]h'U'\\$\$!' \$\$'k cfX'XcW a YbhfYZYW]b[ 'cb'h\ Y]f fc`Y ]b'h\ Y 'dfYgYbhUh]cbž'h\ Y]f'Wcbhf]Vi h]cbg'hc'h\ Y 'dfYgYbhUh]cbž'h\ Y 'ghfYb[ h\ g'h\ YmVf]b[ 'hc'h\ Y'hYUa ž'UbX h\ Y'dc]bhg'h\ Uhih\ Ymk ci `X``]\_Y 'hc']a dfcj Y'cb']b'Z hi fY [ fci d'dfYgYbhUh]cbg"

Gh XYbhg Wub fYWcfX h\Y]f dfYgYbhUh]cb cb Dck YfDc]bhz DfYn]z cf Ubmch\Yf Zcfa Uhh\Yma UmdfYZYf"

5ggYgga Ybhgʻg\ci`X`VY`fYZYfYbWXX`]b`UWWcfXUbWY`k]h\`h\Y`E UZaa^aXE aU[\$^E U[W`UWe D WWWW`U[`Y 9 g|VWzUj U]`UV`Y`Uh\hhdg.##gc\WU`g\WYb\W`g"Ufhg"i bgk "YXi "Ui #ahi XYbhg#fYgci f\W`g#dc`]\WYa![i]XY`]bYa#

Gi Va ]gg]cb bch/g. Gi Va ]gg]cb j ]U Wci fg/fg/A ccXY g]h/

Hi fb]hb gYhb[. H\]g ]g bchU Hi fb]hb Ugg][ ba Ybh

## 5 http://bxubww.F.Yei ]fYa Ybhg

# 7ci fgY'GWXYXi `Y

J]Yk 'WUgg'hja YhUV'Y

H]a YHJV`Y

8 UHY	HmdY	7 cbhYbh
K YY_'%'' %'A Umi!'(		K\Uh]g'8YjY`cdaYbh3'K\Uhfg'7`]aUhY'7\Ub[Y [chhc'Xc'k]h\']h3
		±0.1h\]g.'k YY_'k Y.'Yb[ U[ Y.'k ]h\.'h\Y.'Z bXUa YbHU`'UbX Zci bXUhJcbU`'ei YghJcb'cZk \UhiJg'XYj Y`cda YbhUbX k \Uh'UfY'k Yž'Ug'XYj Y`cda YbhgW\c`Ufg'UbX

		f&\$%\$L'5 \(\frac{1}{2}\) SfW5 \(ZS\)`YWS\`V \(E_2\) S^\\:e^\S\`V \(E\) fSfWe.  Bai \(Wd = \) ai \(WY\WS\)` \(V\) fZWE agfZ \(BSU[X]U\)\(\frac{2}{2}\) @cbXcb.  F \(ci\) hYX[\(Y''\)  5X[\(Yf\)E'B\''\f&\$\%\\$L'\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
		<u>a Ylfcdc`]hUb'fY[]cbU``W]a UhY'UXUdhUh]cbfä'</u> 7`h[da`_WfS^EU[WUWS`VBa^{Uk}'-&.'&*&-&+("
K YY_'&.'+'>i bY'!'%% >i bY	GYa ]bUf	7 ]a UhY 7 \ Ub [ Yž Dcj Yfhmž J i `bYfUV]`]hm  H\]g`k YY_'X]gW ggYg'h\Y'Z]fghcZZci f`XmbUa ]Wg'k Y k ]``VY``cc_]b[ `Uh']b!XYdh\ ']b'h\]g`Wci fgY'h\Uh`]b_ W]a UhY 'W\Ub[ Y'hc'XYj Y`cda Ybhghi X]Yg"'H\YgY WcbWrdhg'UfY 'W\cgYb'VYWUi gY'h\YmUddYUf ZfYei Ybhm]b'X]gW gg]cbg`cZW]a UhY 'W\Ub[ Y'UbX XYj Y`cda Ybhž'UbX'UfY'fY`Yj Ubhhc'i bXYfghUbX]b[ h\Y'fdifcV'Ya ficZW]a UhY 'W\Ub[ Y'UbX'UbU'mm]b[ gca Y'cZh\Y'Yl ]gh]b[ 'UbX'dfcdcgYX'fgc'i h]cbgfihc W]a UhY 'W\Ub[ Y"'=b'h\]g'k YY_ž'k Y'X]gW gg'h\Y ]bhYfgYW]cbg'cZW]a UhY 'W\Ub[ Yž'dcj Yfhmž'UbX j i `bYfUV]`]m"
		K Y'k]``YI d`cfY'WcbWYdhg'UbX']ggi Yg'fY`UhYX'hc'h\Y Wca d`YI 'fY`Uh]cbg\]dg'VYhk YYb'dcj Yfhmž j i `bYfUV]`]hm'UbX'W]a UhY'W\Ub[Y'''K Y'Wcbg]XYf ei Ygh]cbg'gi W\'Ug'k\Uh'Xc'k Y'a YUb'Vm j i `bYfUV]`]hm3'K\Uh'UfY'h\Y'Wf]h]WU`'dYfgdYWf]j Yg'UbX a U'cf']ggi Yg3'H\]g'k]``']bj c'j Y.'  fUŁ'ZfUa ]b[ 'fW]a UhY'W\Ub[YfiUbX'h\Y'W]a UhY'W\Ub[Y
		fVŁWcbg]XYf]b[ 'X]ZZYfYbhk Umg'cZUddfcUW.]b[ fdcj Yfmfi
		fWEX]gW gg]b[ 'k \Uh'fjii `bYfUV]`]hmfia YUbg'Uhj Uf]ci g `Yj Y`g
		F YUX]b[ g
		6fci k YfžF "ž'5_hYfžG"ž'6fUbXYfž@"/ '< Uei Yž'9"ž &\$\$+"' <u>GcWcYWcbca ]Wj i `bYfUV]`]hmUbX'UXUdHUhjcb</u> hc'Ybj_]fcba YbhU`'f]g .'U'WUgY'ghi XmcZW]a UhY

	\(\frac{\W\text{V\X\Ub}[\colon Y\Ub\X\CC\X]\b[\colon ]\b'6\Ub[\colon \UX\Yg\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\

	Bcfth.!Gci th. fY`Urjcbg\]dgž'tfUX]tjcbU``mk ]th. dck YfZ ``Bcfth.Yfb'UWcfg'gYttjb['th.Y'tYfa g'UbX Wcbffc``]b['th.Y'fYgci fWg'cZ`cWU``mVUgYX'Gci th.Yfb 5Wcfg"'< ck Yj Yfž'th.]g']g'bchU'k Umg'th.Y'WugYž'th.]g']g Wk.Ub[]b['ž'UbX'th.Y'YZZYWg'cZth.]g'Gci th.!Gci th.'g\]Zh UfY'gtj```VY]b['XYtYfa ]bYX"  FYUX]b[g  >U_]a ck ž'H"'f&\$&\$E"''

1	6i i fž'@"'f&\$\$*\!" <u>F YcfXYflb[ 'GcWYlm'J ][ l'Ubliga</u>
	UbX'9I dfYgg]cbg'cZGcj YfY][ blm]b'Dcfh9`]nUVYh\'g Hck bg\]dg I 6 WhWab_ W f S` V 5 ZS` YWz' +f(' Ł +' )!+)+"
	@ bXž7""f&\$\$*tž <u>Hk ]`][\hi=bghhi hjcbg.'Di V`]W</u> <u>5i h\cf]hmUbX`@cWU``Dc`]h]Wg`]b'57F]WU</u> t 6WhWab_ W f S`V 5ZS`YWz%)/&fj*,)!+\$)
	: SY_S`łFž <mark>DÅWUfX</mark> ž8"'f&\$%\$Ł'BY[ch]Uh]b[ GhUhY\ccX.'8mbUa]Wg'cZDckYf'UbX'8ca]bUh]cb']b 5ZF]WU'ž6WhWab_WfS`V5ZS`YW(%f(Ł')'-!)*&"
	< Ug\Ya ]ž: "'GUX][\]ž'<"'7\]nUf]ž'A "'5VVUg]ž'9" f&\$% Łž' <u>H\Y'fY`Uh</u> cbg\]d'VYhk YYb'9B: Cg'UbX <u>cj Yfba Ybh]b'=fUb</u> 'ž: W[ka`ž) fl‰Ł'%!*"
K YY_'*.') '>i `m! '- '>i `m GYa	oUf A JX!hYfa 'VfYU_
K YY_'+.'%&'>i `m!'%*'>i `m GYa	oUf 7`]a UhY:7\Ub[Y'UbX'7caaib]hm'GiVU`hYfbgž 9`]hYgž'UbX'h\Y'D]hZU``g'cZ'DUfh]W]dUh]cb
	DUffijWjdUfijcb'\Ug'VYYb'U'W'blfU'hYbYhcZ XYj Y`cda Ybhdfc[fUa g'g]bW'h\Y'bYc`]VYfU'g\]ZhcZ h\Y'YUf'm% - \$g"'GHJhYg'\Uj Y'YbUWhYX'dfcWggYg'cZ XYWYblfU`]nUfijcbz'\UbX]b['a cfY'dck Yf'cj Yf fYgci fWg'rc''cWJ''Wca a i b]fijYgz'UbX'XYj Y`cda Ybh UWrcfg']bWi X]b[']bhYfbUfijcbU'B; Cg'\Uj Y YbWci fU[YX'WcgY'Wc''\UVcfUfijcb'k]h\''cWJ' Wca a i b]fijYg"'< ck Yj Yfz'dUffijWjdUfijcb'UbX Wca a i b]fijYg"'< ck Yj Yfz'dUffijWjdUfijcb'UbX Wca a i b]m'YX'XYj Y`cda Ybh']g'bchk ]h\ci h']fig'ZUk g" 9`]hY'WJdhi fYz'fY!WYblfU']nUfijcbz'UbX'Wca a i b]fijYg!Ug! dfcl ]Yg'U''i bXYfa ]bY'YZfcffg'UhUW\]Yj ]b[ fYdfYgYbhJhji Y'XYj Y`cda Ybh'' =b'h\]g'gYa ]bUfz'k Y i bdUW_'h\Y'Uggi a dfijcbg'h\Uhi bXYf']Y'dUffijWjdUfijcb UbX'Wca a i b]fmXYj Y`cda Ybhz'UbX']bj Ygfij[UhY'h\Y k Umg'dUffijWjdUfijcb']g'cZhYb'Wc!cdhYX'Vmj YgfhYX ]bhYfYgfg"
	F YUX]b[ g. ·
	BUYggž@"Hk YbUžA "f&\$% Łž'7\";;"@cWU` UXUdHJhjcb"[cj YfbUbWY. Yl Ua]b]b[dck YfffY`Uhjcbg'ž]b"? Yg_]hU`cž9"% DfYghcbž6" DWeW\$dJZ: S`VTaa] a` 5 {_ SfW5 ZS`YW3 VSbfSf[a` Ba {Ukž9 Xk UfX 9`[Uf'Di V`]g\]b["
	D& & Yf'fY`Uh]cbg'ž
•	•

7 cfdcfUhcbg'ł 7`h[da`_WfS^5ag`[USf[a`ž'f&Ł&((!&*&"
Gk UZY`Xž`>"'/ '6Y``ž'8"'f&\$%&\z <u>7 Ub'"W]a UHY</u> <u>W. Ua d]cbg"'gUj Y'h, Y'd'UbYh3'5'Wf]h]WU`fYZYW]cb'cb</u> <u>bYc`]VYfU`'gcWJU`'W.Ub[ Y'</u> \ 7`h[da`_ W fS^ Ba'[f]Uez &%f&\: &(,!&*+"
Dfi X\Ua ž'G"'f&\$\$-Łž' <u>D]a d]b[ '7`]a UHY'7\Ub[Y.</u> <u>F_W\UfX'6fUbgcbž'; `cVU`'K_Ufa_]b[ ž'UbX'H\Y</u> <u>DYf7cfa_UbW''cZ'; fYYb'7Ud]HU`]ga_'</u> ł 7` h[da` _ W f S` V B'S``[ Y 3, 7Ua` a_ k S` V E bSUW(% %) - (!%*%' "

## FYgci fW/g

### FYWca a YbXYX FYgci fWYg

√zmci 'UfY'j Yfm\_YYb'hc'Yl d`cfY'Z fh\Yf'cb'W]a UhY'W\Ub[Y'UXUdhUh]cbžmci 'a ][\h`]\_Y'hc'Yl d`cfY a Ubma cfY'Ufh]WYg']bWi X]b[.

5 VfUa cj ]mž >"ž6Ubi f]žH"ž; ]fchžD" C "žC fUbXcž6"žGW\bY]XYfžB "žGdUb[ Yf!G]Y[ Zf]YXž9"žGk ]mYfž>"ž < Ua a ]`ž5" f&\$\$&\z3VSbf[ Y fa 5 {\_ SfW5ZS` YW @Sfgc6^D WeagdUW? S` SYW\_ W f S` V Hg^ Wc5T[{fk DWgUf[a` ž6UW\_[ fci bX:DUdYf hc h\Y:HUg\_: cfWf cb 7`]a UhY 7\Ub[ Yž5XUdhUh]cb UbX:J i `bYfUV`Y 7 ca a i b]h]YgžK cfX7 cbgYfj Uh]cb I b]cb f# 7 B łžK cfXk UhW\ +bgh]h hY +bhYfbUh]cbU` +bgh]h hY Zcf Gi ghU]bUV`Y`8Yj Y`cda Ybhfl=68 łžGhcW\_\c`a '9bj ]fcba Ybh+bgh]h hY #6 cqhcb"

 $5``Yb\check{z}'D"`5"`UbX`< cZ\!\!/a Ub\check{z}'D"`: "\check{z}'f\&\$\$) \, L\check{z}'9I \, lfYa Y`k \, ]bXg`UbX`k \, Uj \, Yg`]b`lh\Y`UZ\!\!/fa Ulh\`cZU`B Ycdfcl\Yfcnc]W \, [`UW\]Ulh\cb\check{z}'@SfqdW\ (' ' \check{z}'dd"\%' '!\`\%+"$ 

 $6YUhYmžH"'f%-, ŁžH\Y'j]g]cb'cZgi gHU]bUV'Y'Wca a i b]hJYgž']b'6i fVmžF"'fYX"Ł5aabWcSf[`Yi [fZ @SfgdW5a`Xda`f[`Y @SfgcS^: SI SdVe i [fZ >S`VgeWB'S``[`Y XadEgefS[`STW5a__g`[f[Well F">"'>cgYd\'<YbfmDfYgg'K Ug\]b[ hcb'87 ž'dd"&'' -&*&"$ 

 $6YUhYm\check{z}H"`UbX`6Yf_Y\check{z}D"F"`ff%-+Ł\check{z}3XfWdfZW: gdd[US`W>[`][`YDWUahWdx fa EgefS[`STW6WhWab_Wf[`fZW5SdTTWS`\check{z}>c\bg'<cd_]bg'Ib][`Yfq]lmiDfYgqž6U`hJa cfY"$ 

 $6YUhYm\ddot{z}H"`UbX`A~Ubb]b[~\dot{z}?"`fl%-+\dot{z}FZW7Ua~aYk~aXB~SUW,~B~S``[`Y~Xad7`h[da`\_W~fl~7Ua`a\_k~S`V5a\__g`[fkl~g`UbX`DfYggžK~Ug\]b[~hcb`87"$ 

 $6Yf_Y\check{z}D"F"f\&\$\$\&t\check{z}8cYgGigtU]bUV`Y`8YjY`cdaYbhCZYf`U`BYk`8]fYWf]cb`Zcf`D`Ubb]b[3`7\U``Yb[Yg'Zcf'h\Y`HkYbhn!:]fgh7Ybhifm<math>\check{z}$ <agd S^aXB'S``[Y>[fW&SfgdW\%+f%t\check{z}dd"&%'\\*"

 $6`U_Y`m\check{z}'9"`>"`f\&\$\$(\,t\check{z}'Gi\ Vi\ fVg'Ug'gi\ gtU]bUV`Y'Wc'a\ a\ i\ b]tfYg.`U'dUfUX][\ a\ `Zcf'th\Y'Z\ ti\ fY\check{z}'3gefc6'fS`\ B'S`\ Wd\check{z}' (\,\$f(\,t''))$ 

6cVYfmž6"f%-%±BgT{UBSdf[U[bSf[a`[`7`h[da`\_WfS^DW/g/\$f[a`žH\Y'9bj]fcbaYbHJ``@Uk`±bgh]hihYž KUg\]b[hcbž87"

6 i fVmž F "'>"'fYX"Ł'f% - , Łž 5 a Ža b WbSf[`Y i [fZ @SfgdW Ua`Xta`f[`Y`SfgdS^ZSISdVe i [fZ 'S`V ŽgeWb'S``[`Y Xad egefS[`ST 'WUa\_g'] [fWež=g`Ub X`D fYggž K Ug\]b[ hc b ž 8 7 "

6 i fVmžF "'>"'f% - - ŁžI b`YUg\]b[ 'h\Y'dck Yf'cZd`Ubb]b[ 'hc'WfYUhY'X]gUghYf!fYg]ghUbhWca a i b]h]Ygž<agd S^aXfZW3\_ WdUS` B'S``[ Y 3eeaU[Sf[a` $\check{z}$ \*)  $\check{z}$ 'dd"&(+-&), "

6i fVm $\check{z}$ F "'>"'f&\$\$% $\check{z}$ I fVUb'WcbtU]ba Ybh'dc`]Wh'UbX'YI dcgi fY'hc'bUhi fU``\UnUfXg.']g'h\YfY'U'WcbbYWf]cb3'' <agd S^aX7`h[da`\_ W f B'S``[ Y S` V ? S` SYW\_ W f $\check{z}$ '( (  $\check{z}$ 'dd"( +) -( - \$"

7 U`h\cfdYžD"'f%--' ŁF 4 知身W f 3 \_ WdUS`? Wf

fZagđ S

Zagđ S

Zagđ S

#### &+\$**-**&++"

 $8c`Ub\check{z}5''<"`UbX'K U`_Yf\check{z}'=">"`f&$$(\dot{z}I bXYfgHJbX]b['ji`bYfUV]`]micZWcUgHJ``Wcaaib]f]Yg`hc`W]aUhY W.Ub[Y`fY`UhYX`f]g_q<math>\check{z}$ <agd`S^aX5aSefS^DWeWSdJZ $\check{z}$ '-"

8 Ygg`Yfž'5"/ `DUfgcbž'9"5"ž'&\$\$-"`H\Y`gW]YbWY`UbX`dc`]h]Wg`cZ[`cVU``W]a UhY`WXUb[Y.`5`[i]XY`hc`h\YXYVUhY.`7 Ua Vf]X[Y`Ib]j Yfg]hmiDfYgg"

9bgcfž'>"/ '6Yf[YfžF "ž'&\$\$-"I bXYfghJbX]b['W]a UhY'WXUb[Y'UXUdhJh]cb.``Yggcbg'Zfca 'Wcaaib]hmlVUgYX UddfcUWXyg.`DfUWfWJ`'5Wf]cb'DiV"

- ; UfbUi hžF "'f&\$\$, ŁžFZW9 Sd Sgf 5  $\$  SfW5 ZS` YWD Wh[W , 8[` S^D Wbadīž7 Ua Vf]X[ Y`I b]j Yfg]hmDfYggž 7 Ua Vf]X[ YžB Yk 'Mcf\_'UbX'A Y`Vci fbY"
- ; Y]gž8"'9"'fl%- (Słž7`h[e[a`[YS6[eSefWdŽDWe[efS`f5a\_\_g`[fkžKcf\_]b['dUdYf'dfYgYbh/X'Uhih\Y7YbhfU`'Ib]hYX'GhUhYg'9Ufl\heiU\_Y'7cbgcfh]ia 'fl7 IG97 Ł'B UhifU`'< UnUfXg'F YgYUfW.'Gmadcg]ia ž HfUbg'Uh]b['FYgYUfW.']bhc'DfUW]WYż''% A Umż'@ci]gj]`Yž?YbhiW\_m''
- ; Y]gž8"'9"'f% (T½D`Ubb]b['8]gUghYf'FYg]gHUbh7ca a i b]h]Yg.'@Yggcbg'Zcf'@cWU`'5i h\cf]h]Ygž' BdaUWWW[`Ye aXfZW;`fWd Sf[a`S^5a` XWdW UWa`

6YW\_YbžG"ž7\Ua VYfgž@"ž7c`Ya UbžH"ž8i bb"žA "ž; fYYbž8"ž<YbXYfgcbžF "ž<cVXUm"5"ž<cY[\!; i `XVYf[ žC "ž? Ybbmž; "ž? ]b[ ž8 "žDYbbmž; "'UbX'K ccXfi ZžF "'f&\$\$+Ł'7\UdhYf'%ž5i ghfU`]U'UbX'BYk
NYU`UbX""+b.:7`]a UhY'7\Ub[ Y'&\$\$+.:=a dUWgž5XUdhUhJcb'UbX'J i `bYfUV]`]hm''7cbhf]Vi hJcb'cZK cf\_]b[ '; fci d
=hc'h\Y: ci fh\'5ggYgga YbhF YdcfhcZh\Y'+bhYf[ cj Yfba YbhU``DUbY``cb'7`]a UhY'7\Ub[ Y"'DUffmžA "@" ž
7 Ubn]Ub]žC": "'žDU`i hJ\_cZž'>"D"'žj Ub'XYf'@]bXYbž'D">"'UbX'<Ubgcbž'7"9"'f9XgŁž'7 Ua Vf]X[ Y'I b]j Yfg]hm
DfYggž'7 Ua Vf]X[ YžI ?"

<mXYžF "'5"'f&\$\$\$\frac{1}{2} SfWD Weba`e[hW6 We]Y`, 3 efqVk aXTq[V]`Ye [ i Sd\_ U/\_SfWež'9/: B'Gdcbž'l?"</pre>

 $\pm 0.7.7 : ci fth : 5ggYgga YbfiF Ydcffif&$$+tZ'5 (\_ SfW5ZS` YW$"") Ek` fZWe[e DWbadfZ' \pm bt] f[ cj Yfba YbtU` DUbY`:cb'.7`]a UtlY':7 \Ub[Y"$ 

? U]bUbž5"ž9\gUbž5"`UbX`7\ck X\i fmž<"`f&\$\$\*\t28[`S^DWbadfŽEfgVk a` '{hW[ZaaV ekefW\_e SeeWee\_W`fl hg^ WtST\*WYdagbe bdaX[^`YS`V 'hW[ZaaV SVSbfSf[a` fa U'[\_SfWZSISdV S`V 'a`Y fWd\_U'[\_SfWUZS`YW[`VdagYZfbda`WSdWSeaX@I 4S`Y'SVWeZž: ccX`UbX`5[f]W`hi fY`Cf[Ub]nUh]cb`fl 5C\tcZh\Y`I b]hYX`BUh]cbg`UbX`8YdUfha YbhcZ5[f]W`hi fU``9|hYbg]cbž6Ub[`UXYg\"

? YbbmžA "UbX A YUXck WfcZhž >" fYXg"Ł f% - - Łž

 $JUYZ@UbX7UadUbY``UZH"'fYXg"L'f&$$) LZFZWDWe[1Wf5[fk,:ai?aVWd5[f]WeDWUahWdXda_6[eSefWdZCLZcfX'lb]] Yfg]mDfYggZBYk'Wcf_" \\$ 

 $\label{thm:condition} DcgbYf\check{z}'9"`5"\check{z}/~K~Y]gVUW\&\check{z}'8"`f\&\$\%\&L"`5~\underbrace{\label{eq:condition}} SfWUZS`YW`gef[UW`Df]bW'hcb`l~b]j~Yfg]hmDfYgg"$ 

.

Gca Y fY Yj Ubh'ci fbU'g']bWi XY.

9 'aTS^7` h[da` \_ W fS^5ZS` YW @SfgdW E U[W UW @SfgdWU1\_ SfW5ZS` YW B@3E

 $5 \subseteq Sf[U 5 ZS` YW @SfgdW5 \subseteq SfW5 ZS` YW$ 

5  $^{\prime}$ \_ SfWba  $^{\prime}$ Ukł 7  $^{\prime}$  h[da  $^{\prime}$ \_ W fS^E U[W UWS  $^{\prime}$  V Ba  $^{\prime}$ Ukł 5  $^{\prime}$ \_ SfWS  $^{\prime}$  V 6 WhWab\_ W f

;6E 4g Mf[`

<agd S^aX6WhWab\_ W f E fgV[We</pre>

<agd S^aX; fWd Sf[a`S^6WhWab\_Wf

7`h[da`\_WfS`VGdTS`[ISf[a`

? [f[YSf[a``

 $\label{thm:model} $$ Mci'k ]^*VYbYZhZca'VYWca ]b['ZJa]^JUf'k ]h', cc['YGWkc'Uf'fkhd.#gWkc'Uf''[cc['Y''Wca_k'Ug'U'_YmgYUfWk'Yb[]bY'Zcf'UWUXYa]Wdi V']WUhJcbg'UbX'fYdcfhg'''Mci'WUb'gYhi d'h\Y'dfYZYfYbWfg'hc'']b_'hc'h\Y'I BGK @JVfUfmYj Yb'k \Yb'mci'UfY'bchcb'WJa di g'''$ 

## Gi Va ]gg]cb cZ5ggYgga YbhHUg\_g

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

Image: Ybwei bhyfu'dfcv'ya k \yb'uhhya dhjb[ 'hc'gi va ]hmci f'Ugg][ ba Ybhh\fci [ \ 'Hi fb]h]bž'd'YUgY

Hy'Yd\cby'9| hy'fbu''Gi ddcfhcb'-', ) '' ' ' %cf'Ya U]''h\Ya 'cb'Y! hy'fbu'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'fl \*) 'XUmg'U'mYUft"'=Z'mci
UfY'i bUV'Y'hc'gi va ]hmci f'Ugg][ ba YbhXi Y'hc'U'ZJi 'hk ]h\ 'Hi fb]h]b'mci 'a UmUdd'mZcf'Ub'Y! hy'bg]cbž'Vi hmci
a i ghfYhJ]b'mci f'h]W\_Yhbi a VYf'Zfca '9! hy'fbU''Gi ddcfhfU'cb[ 'k ]h\ 'Ubmch\Yf'fy'Yj UbhXcW a Ybhgt'hc
]bWi XY'Ug'Yj ]XYbW' hc'gi ddcfhmci f'Y! hy'bg]cb'Udd']WUh]cb"'=Zmci 'Ya U]''9! hy'fbU''Gi ddcfhmci 'k ]'`
Ui hca Uh]WJ'`mfYW']j Y'U'h]W\_Yhbi a VYfZ'Vi h]Zmci 'hy'Yd\cby'mci 'k ]``bYYX'hc'gdYW]Z]WJ'`mUg\_'Zcf'cby''
Hi fb]h]b'U'gc'dfcj ]XYg'i dXUhy'g'cb'h\Y]f'gmghYa 'ghUh' g'cb'Hk ]hyf''

; YbYfU`mž'UggYgga YbhiHug\_g'a i ghVY'gi Va ]hhYX'Y`YVWfcb]\WJ``mij ]U'Y]h\Yf'Hi fb]h]b'cf'U'A ccX`Y Ugg][ ba Ybh''=b']bgHJb\W'g'k \YfY'h\]g']g'bchdcgg]V`Yž']hk ]```VY'gHJhYX'cb'mci f'\\circ i fgY'g'A ccX`Y'g]hY'k ]h\U`hYfbUh]j Y'gi Va ]gg]cb'XYHJ]`g"

cfi]bZcfa Uhjcbicbi\ckihcigi Va ]hUgg][ ba Ybhgicbi]bYij ]UiA ccXiY.i\hdg.#gh XYbhi bgk "YXi "Ui #\ck! gi Va ]hUgg][ ba Ybha ccXiY

5WUXYa]W<cbYghmUbXD`U[]Uf]ga

- i bXYfgfUbX mci f'f][\hg'UbX'fYgdcbg]V]`]hJYg'Ug'U'gh XYbhUhl BGK
- VY`Uk UfY`cZd`U[]Uf]ga ž`Wcdmf][\hz'l BGK `Gh XYbh7cXY`cZ7cbXi WhUbX`5VWWdhUV`Y`l gY`cZ I BGK `=\forall H`F Ygci f\W\g`Dc`]\m\m
- VY 'Uk UfY 'cZh\Y 'ghUbXUfXg 'cZVY\Uj ]ci f'Yl dYWYX 'cZYj YfmcbY ']b 'h\Y 'l BGK 'Wca a i b]hm
- `cWUHY 'gYfj ]WYg'UbX ']bZcfa UH]cb'UVci hI BGK 'UbX'I BGK '@]VfUfm

Gca Y'cZh\YgY'UfYUg'k]``VY'ZJa]`]Uf'hc'mci žch\Yfg'k]``VY'bYk"'; U]b]b['U'gc`]X'i bXYfgHJbX]b['cZU``h\YfY`UhYX'UgdYWhg'cZ9@&9'k]``\Y`d'mci 'a U\_Y'h\Y'a cghicZmci f'ghi X]Yg'Uh'l BGK "'\\hd.##gi V'YWfi |XYg"`]VfUfm'i bgk "YXi "Ui #\`]qY#JVci hY`]qY

# 5 WUXYa] W + D Zcfa Uhjcb

: cf`YggYbhJU``gh XYbh`]bZcfa UhJcb`fY`UhJb[ 'hc.

- fYei Yghg Zcf Yl hYbg]cb/`UhY gi Va ]gg]cbg [ i ]XY`]bYg/
- fYj ]Yk cZa Uf\_g/