# 7ci fgY<sup>-</sup>Cj Yfj ]Yk

### GHJZ7cbHJWh8YHJ]`g

### 7cbj Ybcfg

BUa Y	9a U]`	5j U]`UV]`]hm	@cWUh]cb	D\cbY
<i [i="" dyhyfg<="" td="" yg=""><td>\"dYhYfg4 i bgk "YXi "Ui</td><td>A cbXUm%&amp;da ž cb`]bYžVm Uddc]bha Ybh</td><td>A cfj Yb 6fck b &amp;+)</td><td>- \$*)</td></i>	\"dYhYfg4 i bgk "YXi "Ui	A cbXUm%&da ž cb`]bYžVm Uddc]bha Ybh	A cfj Yb 6fck b &+)	- \$*)

#### Hi hcfg

BUa Y	9a U]`	5j U]`UV]`] <b>m</b>	@cWUh]cb	D\cbY
A cb]ei Y @Ji fU	a "`Ui fU4 i bgk "YXi "Ui	6mUddc]bha Ybh	A cfj Yb 6fck b <sup>*</sup> &+%	
9j Y <sup>·</sup> B UW\]b	Y"bUW\]b4 i bgk "YXi "Ui	6mUddc]bha Ybh	< 5@ZA cfj Yb 6fck b Vi ]'X]b[ " gYWbX'Zccf"	

### GWXcc`7cbHJWh =bZcfa Uh]cb

GWkcc`cZ<iaUb]h]Yg'/ '@Ub[iU[Yg

@c\\Ulrighthgap. G\\\cc``C\Z]\\\\ž\A\cfj\Yb`6fck\b'6i]\\]b[\ž\@Yj\Y``&\z\&),

CdYb]b[ '<ci fg. 'A cbXUm! ': f]XUmž'- Ua '!') da

HY`.'\$&'-'(, '\$(\$\*

9a U]`.'<u>\U`4 i bqk "YXi "Ui</u>

#### 5W\_bck `YX[ Ya YbhcZ7ci bhfm

I BGK '5frgž8Yg][b'UbX'5fW,]h'Wi fY'? Ybg]b[hcb'UbX'DUXX]b[hcb'Wa di gYg'UfY'Vi ]'hcb'5Vcf][]bU`@UbXg"'K Y'dUmci f'fYgdYWrg'hc'h\Y'6]X'][U''UbX'; UX][U''dYcd'Yg'k\c'UfY'h\Y'7i ghcX]Ubg'cZh\YgY'`UbXg" K Y'UW\_bck 'YX[Y'h\Y'5Vcf][]bU`'UbX'HcffYg'GHfU]h=g`UbXYf'dYcd'Ygž'h\Y': ]fgh5i ghfU`]Ubgžk\cgY'`UbXgžk]bXg'UbX'k UhYfg'k Y'U``'bck 'g\UfYž'UbX'dUmfYgdYWhc'h\Y]f'i b]ei Y'j U'i Ygž'UbX'h\Y]f'Wcbh]bi ]b['UbX'YbXi f]b['W'h fYg'k\]W\XYYdYb'UbX'Ybf]W\h\Y'`]ZY'cZci f'bUh]cb'UbX'Wca a i b]h]Yg"''

 $\label{eq:continuous} \begin{array}{ll} \text{$:$} = \text{$U[Y'Wc$ if} \text{$fhYgmcZh}, Y'C$ $Z_jWY'cZh}, Y'Dfc'J ]WY!7 \setminus UbWY``cf' = bX][Ybci g'] \\ \text{$:$} = \text{$U[Y'Wc$ if} \text{$fhYgmcZh}, Y'C$ $Z_jWY'cZh}, Y'Dfc'J ]WY!7 \setminus UbWY``cf' = bX][Ybci g'] \\ \text{$:$} = \text{$U[Y'Wc$ if} \text{$fhYgmcZh}, Y'C$ $Z_jWY'cZh}, Y'Dfc'J ]WY!7 \setminus UbWY``cf' = bX][Ybci g'] \\ \text{$:$} = \text{$U[Y'Wc$ if} \text{$fhYgmcZh}, Y'C$ $Z_jWY'cZh}, Y'Dfc'J ]WY!7 \setminus UbWY``cf' = bX][Ybci g'] \\ \text{$:$} = \text{$U[Y'Wc$ if} \text{$fhYgmcZh}, Y'C$ $Z_jWY'cZh}, Y'Dfc'J ]WY!7 \setminus UbWY``cf' = bX][Ybci g'] \\ \text{$:$} = \text{$U[Y'Wc$ if} \text{$fhYgmcZh}, Y'C$ $Z_jWY'cZh}, Y'Dfc'J ]WY!7 \setminus UbWY``cf' = bX][Ybci g'] \\ \text{$:$} = \text{$U[Y'Wc$ if} \text{$fhYgmcZh}, Y'C$ $Z_jWY'cZh}, Y'Dfc'J ]WY!7 \setminus UbWY``cf' = bX][Ybci g'] \\ \text{$:$} = \text{$U[Y'Wc$ if} \text{$fhYgmcZh}, Y'C$ $Z_jWY'cZh}, Y'Dfc'J ]WY!7 \setminus UbWY``cf' = bX][Ybci g'] \\ \text{$:$} = \text{$U[Y'Wc$ if} \text{$fhYgmcZh}, Y'C$ $Z_jWY'cZh}, Y'Dfc'J ]WY!7 \setminus UbWY``cf' = bX][Ybci g'] \\ \text{$:$} = \text{$U[Y'Wc$ if} \text{$fhYgmcZh}, Y'C$ $Z_jWY'cZh}, Y'Dfc'J ]WY!7 \setminus UbWY``cf' = bX][Ybci g'] \\ \text{$:$} = \text{$U[Y'Wc$ if} \text{$fhYgmcZh}, Y'C$ $Z_jWY'cZh}, Y'Dfc'J ]WY!7 \setminus UbWY``cf' = bX][Ybci g'] \\ \text{$:$} = \text{$U[Y'Wc$ if} \text{$fhYgmcZh}, Y'C$ $Z_jWY'cZh}, Y'Dfc'J ]WY!7 \setminus UbWY``cf' = bX][Ybci g'] \\ \text{$:$} = \text{$U[Y'Wc$ if} \text{$fhYgmcZh}, Y'C$ $Z_jWY'cZh}, Y'Dfc'J ]WY!7 \setminus UbWY'``cf' = bX][Ybci g'] \\ \text{$:$} = \text{$U[Y'Wc$ if} \text{$fhYgmcZh}, Y'C$ $Z_jWY'cZh}, Y'Dfc'J ]WY!7 \setminus UbWY'``cf' = bX][Ybci g'] \\ \text{$:$} = \text{$U[Y'Wc$ if} \text{$fhYgmcZh}, Y'C$ $Z_jWY'cZh}, Y'Dfc'J ]WY!7 \setminus UbWY'``cf' = bX][Ybci g'] \\ \text{$:$} = \text{$U[Y'Wc$ if} \text{$fhYgmcZh}, Y'C$ $Z_jWY'cZh}, Y'Dfc'J ]WY!7 \setminus UbWY'``cf' = bX][Ybci g'] \\ \text{$:$} = \text{$U[Y'Wc$ if} \text{$fhYgmcZh}, Y'C$ $Z_jWY'cZh}, Y'Dfc'J ]WY!7 \setminus UbWY'```cf' = bX][Ybci g'] \\ \text{$:$} = \text{$U[Y'Wc$ if} \text{$fhYgmcZh}, Y'C$ $Z_jWY'cZh}, Y'Dfc'J ]WY!7 \setminus UbWY'C$ $Z_jWY'cZh}, Y'Dfc'J ]WY!7 \setminus UbWY'C$ $Z_jWY'cZh}, Y'Dfc'J ]WY'C$ $Z_jWY'cZh}, Y'Dfc'J ]WY'C$ $Z_jWY'cZh}, Y'Dfc'J ]WY'C$ $Z_jWY'cZh}, Y'Dfc'J ]WY'C$ $Z_jWY'CAY}, Y'Dfc'J ]WY'C$ $Z_jWY'CAY}, Y'Dfc'J ]WY'C$ $Z_jWY'CAY}, Y'Dfc'J ]WY'C$ $Z_jWY'CAY}, Y$ 

## 7ci fgY 8YHJ] g

I b]hg cZ7fYX]h\*\*

Gi a a UfmcZh\Y 7ci fgY

 $H\g`WcifgY'dfcj]XYg']bhYfa YX]UhY``Yj Y`: fYbWX``Ub[iU[Y'ghiXmZfca `U'Wcaaib]WUh]j Y'UbX'hUg_!VUgYX UddfcUWX"`#i]g`XYg][bYX'Zcf'ghi XYbhg'k]h\`U'_bck `YX[Y'cZ: fYbWX'Yei]j U`Ybhhc'h\fYY'hYfag#gYaYghYfg'cZghi Xm]b['h\Y``Ub[iU[Y'Uhib]j Yfg]lmi`Yj Y`"'#b'h\]g`WcifgYž'mci ``YUfb'hc'Wcaaib]WUhY'UbX'dfcXi WY'hYIhg'cbhcd]Wg'k\]W'`UfY'ZUa]']Uf'cf'cZdYfgcbU`]bhYfYgh''Mci `XYj Y`cd'mcif']ghYb]b['UbX'gdYU_]b['g_]``g'Ug'k Y``Ug$ 

dfcbi bWJUhJcbž``]ghYb]b[ 'cf'k f]hJb[ 'YI YfWJgYgž'Ug'k Y```Ug'fY[ i `Uf'df]j UhY 'ghi XmUbX'fYj ]g]cb'Uh\ca Y'cf']b h\Y'a i 'hJa YX]U'UfYU"'fK YY\_`mdfUWJWY'UbX'fYj ]g]cb'k ]h\'h\Y'Ui X]c'UbX'j ]XYc'a UhYf]U`'UW&a dUbmJb[ 'h\Y W&i fgY'hYI h\Vcc\_'Ž'h\Y'cb`]bY'W&bhYbhcZh\Y'W&i fgYŁ"'5 'a ]b]a i a 'cZ) '\ci fg'dYf'k YY\_'cZ]bXYdYbXYbhk cf\_ ]g'YI dYWYX"'F Y[ i `Uf'UWJJ Y'dfUWJWY'UbX'fYj ]g]cb'UfY'YggYbhJU`'Zcf'YZZYWJj Y'dfc[ fYgg]cb"

fYUX]b[ 'Wca dfY\Ybg]cb'UbX'[ fUa a Uf'UbX'j cWUVi 'Ufmei ]n'j ]U'WcffYWfjcb']b'WUgg'UbX'bi a Yf]WU''[ fUXY"

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

#### 5XX]h]cbU`XYhJ]`q

#### 5ggYgga Ybh' . K YY\_`mcb`]bY Yl YfW]gYg

 $5ggYgga\ Ybh``Yb[\ h\..\ \%\ci\ f`dfYdUfUh]cb`!\ \%\ 'a\ ]b"'ei\ ]n'dYf'k\ YY\_8i\ Y`XUhY.\ K\ YY\_g`\&\check{z}'\ \check{z}'(\check{z}'+$ 

Gh XYbhg k]``Wa d`YhY k YY\_`mdfYdUfUh]cbg cb Ui X]c!j ]XYc XcW a Ybhgžk f]hhYb hYl hgždfcbi bW]Uh]cb UbX cfU``Wa dfY\Ybg]cb Yl YfW]gygžUbX#cf'j cWUVi `Ufm#[ fUa a Uf ei ]nnYg cb A ccX`Y fl%\ci f'dYf k YY\_L''

: YYXVUW\_'k ]``VY`dfcj ]XYX'j ]U'gY`Z\WcffYWYX`YI YfW]gYg'cb`A ccX`Y`UbX`[ YbYfU``ZYYXVUW\_']b`WUgg"

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

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

H\Y`k\YY\_`mcb`]bY`YI\YfW]gYg`k\]```fU\_Y`d`UWf`Xi\f]b[`k\YY\_g`&ž'\ž'(`UbX`+`Zcf`f\Y`k\c`Y`cZf\Y\WcffYgdcbX]b[`k\YY\_"`H\Y`ei\]n`k\]```cdYb`cb`A\cbXUmUh-`Ua\`UbX`WcgY`cb`GUh\fXUmUh)\`da\"`H\Y\YI\YfW]qYg`dfYqYbHYX`]b`f\Y`Zcfa\czZA\ccX`Y`ei\]nnYq`k\]```VY`f\Ja\YX`UbX`WUb`VY`UfhYa\dhYX`cb`mcbW'"

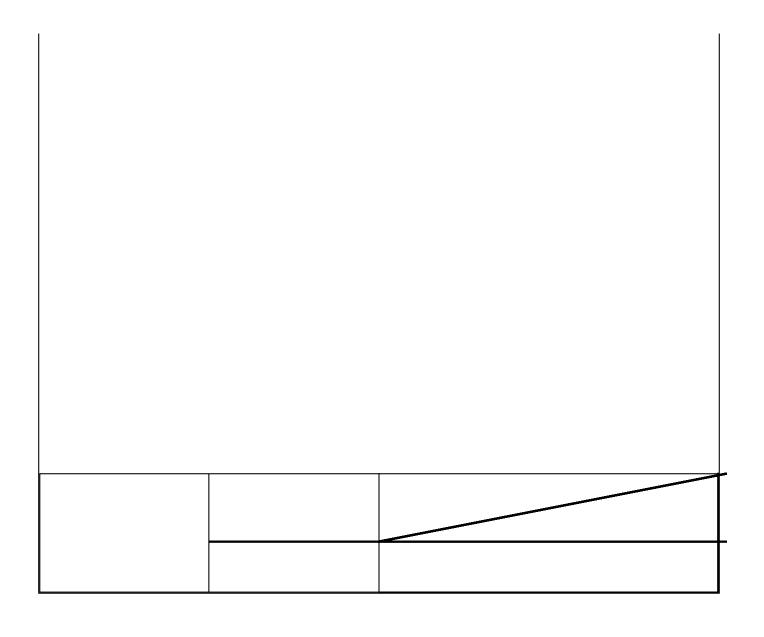
### 5 hmyb XUb WY F Yei ]fYa Yb hg

### 7 ci fgY GWX YXi `Y

#### J]Yk 'WUgg'ha YhUV'Y

#### H]a YHJV`Y

8 UhY	HmdY	7 cbhYbh	
C 'k YY '&' 'A Um! '&+ A Um	Hcd]W	Di fW.UgY`~`HchYa`&`" `f1]j fY`XY``'Å`Äj Y`YhWU\]Yf X'UWfj ]hÅgŁhc'i gY`]b``YWfi fYg'UbX'hi hcf]U`g"	
		: Ua ]`]Uf]nY`mci fgY`Zk ]h\`h\Y`hYI hVcc_`UbX`h\Y A ccX`Y`g]hY	
		FYUX'h\Y'7cifgY'CjYfj]Yk'UbX']bZcfaUh]cb'cb AccX'Y'UbX'Vf]b['mcif'eiYgh]cbg'hc'h\Y'@YWnfY	
	<ca cf_<="" td="" yk=""><td></td></ca>		
		DfYdUfY'h\Y'k YY_`m[fUa a Uf'UbX'jcWUVi`Ufm j]XYcg'UbX'UWWca dUbm]b['ei]nnYg'VYZcfY'h\Y `YWnfY'fU``'hYfa Ł	
		DfYdUfY'h\Y'kYY_`m'UgmbW\fcbcig'UWfjj]h]Yg VYZcfY'h\Y'`YWfifY'fU``'hYfaŁ	
		DfYdUfY'th\Y'W&bgc`]XUt]cb'YlYfW]gYg'UZtYf'th\Y tihcf]U``fU```tYfak	
K YY_'%'' \$'A Um!''	Hcd]W	⇒blfcXi Wgcb	
>i bY		@YÃcb'%.'CiU]gž'WWYghÃU"""	
K YY_'&.'*'>i bY'!'%\$ >i bY	Hcd]W	@YÃcb'%(.'9Wt`c[]Y	
	5ggYgga Ybh	K YY_`micb`]bY`Yl YfVJgYg`f)ı Ł	
K YY_" . "% ">i bY"! "%+	@YWhi fY	Bc``YWnifY`cb`K YY_'' '!`EiYYbfog`V]fh\XUm'	
>i bY		DfYdUfUfY"h\Y"cb`]bY"UWhjj ]hjYg"	
	Hcd]W	@YÃcb'%).'@Y``ci d	
I		1	



## FYgci fW/g

### DfYgWf]VYX F Ygci fWYg

A ">"'@cdYgž'>"H"'@Y'6ci [bYW"f&\$%(t"'HchYa '&'!'a Åh\cXY'XY'ZfUbÃU]g'5&"'<UW\YhhY': @9"

A "5bh]Yfž7"6f]``UbhžG"9f]W\žA">"'@cdYgž'>"H"'@Y'6ci [bYW''f&\$%(t"'HchYa''&'!'WU\]Yf`XfWWjj]hÅg" < UW\YhY': @9"

#### FYWca a YbXYX FYgci fWYg

Mci 'g\ci `X'h\]b\_'UVci hUWei ]f]b[ 'U'[ ccX'X]Wf]cbUfm''=\mci ']bhYbX'hc'Xc'U'a U'cf']b': fYbW\žkY'fYWca a YbX h\Uhmci 'Vi m'U'`Uf[ Y'V]']b[ i U``fi fYbW\!9b[ `]g\#9b[ `]g\!: fYbW\!X]Wf]cbUfm''Mci 'g\ci `X'Vi m'h\Y'V][ [ Ygh X]Wf]cbUfmmci 'WUb'UZcfX.'U'dcW\_Yhg]nY'cf'WcbWfgY'X]Wf]cbUfmik ]``ei ]\w\_`mdfcj Y']bUXYei UhY'''A Ubm ghi XYbhg'U'gc'`]\_Y'hc'\Uj Y'U'[ fUa a Uf'fYZYfYbW''Vcc\_"

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

7 ci fgYgʻUfYʻdYf]cX]WU``mfYj ]Yk YXžʻUbXʻghi XYbhgʻ'ZYYXVUW\_`]gʻi gYXʻhcʻ]a dfcj Yʻh\Ya "`: YYXVUW\_`]g [Uh\YfYX`Zfca 'ghi XYbhgʻi g]b[ 'a m9l dYf]YbWl'''±i]gʻYbWci fU[YX`ghi XYbhgʻWca d`YhYʻh\Y]fʻgi fj YmgʻVm UWWgg]b[ 'h\Y`dYfgcbU`]gYX`k YV``]b\_jj ]Uʻh\Y`A ccX`Y`Wci fgY`g]hY'''

### 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

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

D`U[]Uf]ga i]gii g]b[ih\Yik cfXgicfi]XYUgicZch\YfgiUbXidfYgYbh]b[ih\Ya iUgimci fick b"i=iWUbihU\_Yia Ubm Zcfa gžZfca iXYi]VYfUhYiWXYUh]b[ihciUWW]XYbhU`mWcdm]b[iZfca iUigci fWYik]h\ci hiUW\_bck iYX[Ya Ybh'i