

# LING5015

8]gWcifgY`5bU`mg]g

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# 7 ci fgY<sup>·</sup>Cj Yfj ]Yk

# `GHJZZ`7cbHJWh`8YHJ]`g`

# '7cbj Ybcfg'

B Ua Y	9a U]`	5j U]`UV]`]m	@cWUhjcb	D∖cbY
7∖]fUŀU`H\ca gYb	₩ħ\cagYb4 i bgk "YXi "Ui	VmUddc]bha Ybh	A cfj Yb 6fck b	Ž*%-',) %(**

# GWXcc``7cbHJWhi=bZcfaUhjcb

GWXcc``cZ<iaUb]ŊYg'UbX'@Ub[iU[Yg

@cWUhjcb. `GW&cc``C ZJWYžA cfj Yb`6fck b`6i ]`X]b[ ž@Yj Y``&ž&),

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

D\cbY. Ž\*%&'-',) %\*, %

: UI . Ž\*%&'-' , ) ', +\$)

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

# 7cifgY<sup>·</sup>8YHJ]`g

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

# Gi a a UfmcZh\Y'7ci fgY

H\]gʻWci fgYʻXYj Y`cdgʻmci fʻfYgYUfWXʻg\_]``gʻUbX'mci fʻUk UfYbYggʻcZ`Ub[i U[Yʻi gY`]bʻgcWJYhmʻ5```\_Ym UddfcUWXYgʻhcʻhYl hUbU`mg]gʻk]```VYʻfYj JYk YX'hcʻ[]j Y`mci `U`VfcUX'dYfgdYWfj Yžk \]WX'mci `WUb`Udd`mhcʻU fUb[YʻcZX]gWJd`]bUfmWcbhYl hgʻ]bWi X]b[`Udd`]YX``]b[i ]ghJWgʻzffUbgʻUh]cbʻUbX`]bhYfdfYhUh]cbʻza YX]U`UbX Wca a i b]WUh]cbʻghi X]YgʻUbX`bUffUh]j Y`UbU`mg]g"'Nci `k]``XYj Y`cd'mci f`Wf]hJWU``h\]b\_]b[`UVci h\ck ``Ub[i U[Y i gY`fYZYWfg`UbX`g\UdYgʻci f`k cf`X`UbX`X]gWi ggʻgcVJU``d\Ybca YbU`fY"["'Yei U`]mž`gcVJU``A`ghJWfž fYdfYgYbHUh]cbʻcZUgmi a `gYY\_YfgžYhWE'h\fci [\`hYI hUbU`mg]g"'Nci `k]```U`gc``YUfb`UVci h\ck `gdYU\_Yfg a U\_Y`Wkc]Wfgʻhc`dYfZcfa `h\Y]f`]XYbh]mž'We!cdYfUhY`UbX`YI dfYggʻdc`]hYbYggʻ]b`Webj YfgUh]cbgʻUbX`bUffUhY dUghYj Ybhg'' =b`hYfa gʻcZk f]hHYb`hYI hgžmci `k]``gh`XmWe\Yg]cb`UbX`Wc\YfybWY`]b`UVUXYa]Wk f]h]b[`žUbX h\]gʻk]``\Y`d'mci `VY`U`VYhHYf`k f]hYf'': cf'mci f`dfc`YWgžmci `k]``VY`ZfYY`hc`W\ccgY`Zfca `U`VfcUX`fUb[Y`cZ hYI himdYgʻ]bWi X]b[`bYk gdUdYfgž'hfUbg`Uh]cb#bhYfdfYh]b[`hYI hgžUWUXYa]WhYI hgžbUhi fU``Webj YfgUh]cbgʻUbX gcVJU``a YX]U`HYI hg"

## 7cifgY`@YUfb]b[`CihWcaYg

- %" →YYbhJZmiUbX``UVY``ZYUhi fYgicZbUhi fU``Wcbj YfgUhJcbg`]b`9b[`]g\`i g]b[`Wcbj YfgUhJcb`UbU`mg]g hYW\b]ei Yg"
- &" FYVcfX`UbX`ffUbgWf]VY`U`g\cfhWcbjYfgUh]cb`ig]b[`ffUbgWf]dh]cb`WcbjYbh]cbg"
- ' " 8 Yg][ b U fYgYUfWX dfc YWrii g]b[ 'X]gWci fgY UbU`mg]g a Yf\cXg"
- ("9jU`iUhY'h\Y'WcbbYWf]cbg'VYfkYYb``Ub[iU[Y'igY'UbX'gcW]U`ž'dc`]h]WU``UbX'W `hifU``ZcfaUh]cbg"
- )" 8YjY`cd`Ub`UbU`mhjWU``ghfUhY[mhc`YId`cfY`dUhhYfbg`cZgdc\_Yb`cf`kf]hhYb`X]gWcifgY"
- \*" 5f[iY'Zcfih,Y'jU']X]micZU'X]gWcifgY'UbU'm]WU``UddfcUWX'UbX']``igfUhY'h,Y'igY'cZh,Y'UddfcUWX h,fci[\`Y|Uad`Yg"

#### HYUW ]b[ 'GhfUhY[ ]Yg'

@YUfb]b[`UbX`HYUVX]b[`FUh]cbU`Y

H\Y'WcbhYbhkUg'WJfYZ ``mgY`YWYX'hc'WcjYf'U``aUcf'HYbXg']b'X]gWcifgY'UbU`mg]g"'<ckYjYfžh\]g'aYUbg h\Uhh\Y'jUf]cig'UddfcUW\Yg'UfY'bchYId`cfYX']b'XYdh\"'H\Y'U]a']g'hc'[]jY'Ub']bhfcXiWf]cb'hc'YUW\ UddfcUW\'gc'h\UhghiXYbhg'Wb'gY`YWh\Y'VYghUddfcUW\'Zcf'h\Y]f'fYgYUfW\'difdcgYg"

#### HYUWX]b[ 'GHfUHY[]Yg

7 `UggYg`k]``fi b`Zcf`&`\ci fg`ZUWY!hc!ZUWY']b`U`k cf\_g\cd`Zcfa UH'H\Y'HYUWX]b[`gHfUHY[m]g`hc`Wca V]bY`h\Y h\YcfYhJWD``[fci bX]b[`k]h`dfUWfJWD``Udd`]WUhJcbg"A cghcZh\Y'hJa Y`k]``VY`U``cWUhYX'hc`[fci d`X]gW gg]cbg VUgYX`cb`h\Y`dfY!gYhX]gW gg]cb`ei YghJcbg`UbX`YI YfWJgYg`Ug`ci h]bYX`]b`h\Y`Wci fgY`gW\YXi `Y"`@YWh fY hJa Y`k]``VY``]a]hYX`Zcf`WUf]ZJWUhJcb`cZWcbW'dhg"`Ghi XYbhg`UfY`fYei]fYX'hc`dfYdUfY`h\Y]f`Ubgk Yfg`hc`h\Y YI YfWJgYg`UbX`UWhJj Y`mHU\_Y`dUfh]b`WUgg`X]gW gg]cb": cf`h\Y`dfc^YWfUgg][ba Ybhghi XYbhg`k]```WUffmci h h\Y]f`]bX]j [Xi U``ghi XmcZX]gWci fgY`UbU`mg]g`cb`gdc\_Yb`cf`k f]hYb`Zcfa g`cZX]gWci fgY"

# 5ggYgga Ybh

# 5ggYgga YbhHUg\_g

5ggYgga YbhˈtJg_	K Y][ \h	8iY'8UHY	GhiXYbhi@YUfb]b[ CihWcaYgʻ5ggYggYX
7 cbj YfgUh]cb 5 bU`mg]g	' \$I	% #%\$#&\$%-`) da	%ž&
Dfc^YWhiDfYgYbHUh]cb <sup>+</sup>	&\$1	Bch5dd`]WUV`Y	( Ž*
Dfc YW	) \$ı	&' #%%#&\$%- `\$).\$\$`DA	' Ž)

### 5ggYgga Ybh8YhJ]`g

#### 5ggYgga Ybh'% 7cbj YfgUhjcb 5bU`mg]g

#### GHUfhXUhY.Bch5dd`]WUV`Y

**8YHJ]`g.** `Ghi XYbhg`k cf\_`]b`[ fci dg`cZ' `hc`Ui X]c#]XYc!fYWcfX`U'' \$`a ]bi hY`Wcbj YfgUh]cb`Ghi XYbhg`fYWY]j Y`U [ fci d`a Uf\_`Zcf`h\Y`fYWcfX]b[`ff%\$i E"`9UW\`ghi XYbhHU\_Yg`fYgdcbg]V]`]hm`Zcf`U`%\$!a ]bi hY`gY[ a YbhUbX gi Va ]hg`h\Y`75`UbU`mg]g`cZh\UhgY[ a Ybh]bX]j ]Xi U``mf&\$i E"`H\Y``Yb[ h\`cZh\Y`hfUbgWf]dh`]g`Uddfcl ]a UhY`m %\$\$\$`k cfXg#dYf`ghi XYbhk ]h`Uddfcl ]a UhY`m%\$\$\$`k cfXg`cZUbU`mg]g"`Ghi XYbhg`fYWY]j Y`k f]hYb`ZYXVUW\_"

Hi fb]h]b'gYh]b[.'H\]g'Ugg][ ba Ybh]g'gi Va ]hYX'h\fci [\`Hi fb]h]b'UbX'gh XYbhg'Xc'bchgYY'Hi fb]h]b g]a ]`Uf]hmifYdcfhg"

#### 5ggYgga Ybh& Dfc YWhDfYgYbHJh]cb

GHUfh'XUHY.

**8YHJ]`g**. `H\]g`]g`Ub`]bX]j ]Xi U``HUg\_"`Gh XYbhg`[ ]j Y`U`%\$`a ]bi hY`dfYgYbhUh]cb`cb`h\Y]f`]bX]j ]Xi U``8]gWci fgY 5bU`mg]g`Dfc`YWf`Gh XYbhg`fYWf]j Y`k f]hhYb`ZYYXVUW\_`UbX`dYYf`ZYYXVUW\_`]b`WUgg"

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

DfYgYbHJhJcbg'UfY'fcghYfYX"'Ghi XYbhigi Va ]hh\Y]f'DD'g`]XYg'df]cf'hc'h\Y]f'gV\YXi `YX'dfYgYbHJhJcb"

#### 5ggYgga Ybh' . Dfc YWh

#### GHUfh'XUHY.

**8YHJ]`g**. `H\]g`]g`U`dfcYWiUgg][ baYbhcZ' \$\$\$`k cfXg`YI Wi X]b[ `fYZYfYbWYg"`GhiXYbhg`W\ccgY`Ub`UfYU`cZ ]bhYfYgh]b`X]gWci fgY`ghiX]Yg`UbX`XYj Y`cd`U`dfcYWidfcdcgU`"`H\Y`dfcdcgYX`dfcYWig\ci`X`U`gc`]bWiXY gUa d`Y`XUHU`UbU`mg]g`i g]b[ `h\Y`W\cgYb`aYh\cX`cZX]gWci fgY`UbU`mg]g"`GhiXYbhg`fYWY]j Y`cfU``ZYYXVUW\_ Zrca`h hcf`UbX`h\Y]f`dYYfg`fXi f]b[ `dfYgYbHUh]cbgEUbX`fYWY]j Y`k f]hhYb`ZYYXVUW\_`VUgYX`cb`h\Y`k f]hhYb gi Va]gg]cb"

# 5 HYbXUbWY FYei ]fYa Ybhg

5/hYbXUbWY`cZ@YWhifYg#Hihcf]U`g`]g`aUbXUhcfmi]b`h\]g`WcifgY"`IbYIW'gYX`UVgYbWY`Zfca`acfY`h\Ub`&\$i cZ@YWhifYg#Hihcf]U`g`k]` ]b`h\]UVV`UVZf``"`I

# FYgci fWg

## DfYgWf]VYX F Ygci fWyg

- DU`hf]X[Yž6"``-`8]gWci fgY`UbU`mg]g. 5b`]bhfcXi Whjcb"`f&\$%&L`di fWXUgY`Zfca `LBGK `Vcc\_g\cd
- 6\UhjU`Yh'U`"`-`5Xj UbWfg`]b`8]gWci fgY`Ghi X]Yg`f&\$\$, Ł'!`Y6cc\_`]b`I\_BGK\_`@]VfUfm\_

### FYWca a YbXYX FYgci fWYg

- 6cc\_'-'HYI hž'WcbhYI hž'dfYhYI h''7 f]h]WU``=ggi Yg']b'8]gWci fgY'5bU`mg]g"'f&\$\$(Ł
- 6cc\_-FY[]ghYfž; YbfYžUbX'GhmY'f&\$\$-Ł
- 6cc\_'-'8]gWci fgY'cZWci fgY.'5b'cj Yfj]Yk 'cZfYgYUfW\']b'X]gWci fgY'gh X]Yg'f&\$\$-Ł
- 6cc\_--==blfcXi Wgcb hc 8]gWci fgY Ghi X]Yg f&\$\$(1)
- 6cc\_'-'5ddfcUWXYg'hc'X]gWci fgY'f%-(Ł

# Gi Va ]gg]cb cZ5ggYgga YbhHUg\_g

# Gi Va ]gg]cb cZ5ggYgga YbhHUg\_g

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

Zmci YbWci bhYf'U'dfcV'Ya 'k \Yb'UthYa dhjb[ 'tc'gi Va ]hmci f'Ugg][ ba Ybht\fci [ \'Hi fb]hjbžd'YUgY hY'Yd\cbY'9I hYfbU'`Gi ddcfhcb'-', ) '' ' %cf'Ya U]`'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'fl \*) 'XUmg'U'mYUfŁ''Zmci UfY'i bUV'Y'hc'gi Va ]hmci f'Ugg][ ba YbhXi Y'hc'U'ZJi `hk ]h\'Hi fb]hjb'mci 'a UmUdd`m'Zcf'Ub'YI hYbg]cbžVi hmci a i ghfYhU]b'mci f'hjW\_Yhbi a VYf'Zfca '9I hYfbU'`Gi ddcfhfU'cb[ 'k ]h\ 'Ubmch\Yf'fY'Yj UbhXcW a YbhgŁ'hc ]bWi XY'Ug'Yj ]XYbWY hc'gi ddcfhmci f'YI hYbg]cb'Udd`]WUhjcb"'Zmci 'Ya U]`'9I hYfbU'`Gi ddcfhimci 'k ]`` Ui hca UhjWU'`mfYWY]j Y'U'hjW\_Yhbi a VYfžVi h]Zmci 'hY'Yd\cbY'mci 'k ]``bYYX'hc'gdYWJZJWU'`mUg\_'Zcf'cbY" Hi fb]hjb'U`gc'dfcj ]XYg'i dXUhYg'cb'h\Y]f'gmghYa 'gfUhi g'cb'Hk ]hYf"

; YbYfU``mž'UggYgga YbhHUg\_g'a i ghVY'gi Va ]HHXXYYWYfcb]WU``mj ]U'Y]H\Yf'Hi fb]h]b'cf'U'A ccX`Y Ugg][ ba Ybh''=b`]bgHUbWYg'k \YfY'H\]g']g'bchdcgg]V`Yž']hk ]``VY'gHUHYX'cb'mci f'Wci fgY'g'A ccX`Y'g]HY'k ]H\ U`HYfbUh]j Y'gi Va ]gg]cb'XYHU]`g''

: cf`]bZcfa Uh]cb`cb`\ck 'hc`gi Va ]hUgg][ ba Ybhg`cb`]bY`j ]U`A ccX`Y.`\hhdg.##gh XYbh'i bgk "YXi "Ui #\ck! gi Va ]hUgg][ ba Ybha ccX`Y

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

D`U[]Uf]ga `]g`i g]b[ 'h\Y`k cfXg`cf`]XYUg`cZch\Yfg`UbX`dfYgYbh]b[ 'h\Ya `Ug`mci f`ck b"`+i\WUb`hU\_Y`a Ubm Zcfa gžZfca `XY`]VYfUhY`W\YUh]b[ 'hc`UVW]XYbhU``mWcdm]b[ 'Zfca `U`gci fWf`k ]h\ci hUW\_bck `YX[ Ya Ybh'

I BGK '[fci dg'd`U[]Uf]ga ']bhc'h\Y'Zc``ck ]b['WUhY[cf]Yg.

7 cdm]b[..'i g]b['thY'gUa Y'cf'j Yfmg]a ]`Uf'k cfXg'tc'thY'cf][]bU`'thYI h`cf']XYU'k ]th`ci hUW\_bck `YX[]b['thY gci fVW'cf'i g]b['ei ctUt]cb'a Uf\_g"'th\]g'U`gc'Udd`]Yg'tc']a U[Ygž'Ufh'UbX'XYg][b'dfc'YWtgž'Ug'k Y``'Ug dfYgYbtUt]cbg'k \YfY'gca YcbY'dfYgYbtg'Ubct\Yf'g']XYUg'cf'k cfXg'k ]th`ci hWfYX]t'

■Uddfcdf]UhY`dUfUd\fUg]b[..7\Ub[]b[`U`ZYk`k cfXg`UbX`d\fUgYg`k \]`Y`a cghmfYhU]b]b[`h\Y`cf][]bU` ghfi Whi fY`UbX#cf`dfc[fYgg]cb`cZ]XYUg`cZh\Y`cf][]bU`ž`UbX`]bZcfa Uh]cb`k ]h\ci hUW\_bck `YX[ Ya Ybh`H\]g`U`gc Udd`]Yg`]b`dfYgYbhUh]cbg`k \YfY`gca YcbY`dUfUd\fUgYg`Ubch\Yf\*g`]XYUg`cf`k cfXg`k ]h\ci hWfYX]hUbX`hc d]YW]b[`hc[Yh\Yf`ei chYg`UbX`dUfUd\fUgYg`]bhc`U`bYk`k \c`Yžk]h\ci hUddfcdf]UhY`fYZYfYbW]b["

7 c``i g]cb.'k cf\_]b[ 'k ]h`:ch\Yfg'Vi hdUgg]b[ 'cZ!h\Y'k cf\_'Ug'U'dYfgcb'g']bX]j ]Xi U``k cf\_"'7 c``i g]cb'U`gc ]bWi XYg'dfcj ]X]b[ 'mci f`k cf\_'hc'Ubch\Yf'gh XYbhVYZcfY'h\Y'Xi Y`XUHYžcf'Zcf'h\Y'di fdcgY'cZh\Ya d`U[ ]Uf]g]b[ 'UhUbmh]a Yž'dUm]b[ 'Ubch\Yf'dYfgcb'hc'dYfZcfa 'Ub'UWUXYa ]WhUg\_žghYU`]b[ 'cf'UV&i ]f]b[ Ubch\Yf'dYfgcb'g'UWUXYa ]Wk cf\_'UbX'Wcdm]b[ ']hž'cZYf]b[ 'hc'Wca d`YhY'Ubch\Yf'dYfgcb'g'k cf\_'cf'gYY\_]b[ dUma YbhZcf'Wca d`Yh]b[ 'UWUXYa ]Wk cf\_"

=ðUddfcdf]UhY`W]hUh]cb. 7]h]b[`gci fWYg`k \]W\`\Uj Y`bchVYYb`fYUXžk]h\ci hUW\_bck `YX[]b[`h\Y`´gYWcbXUfm´ gci fWY`Zfca`k \]W\`\_bck `YX[Y`cZh\Ya`\Ug`VYYb`cVhU]bYX"

8id`]WUh]cbffigY`Zd`U[]Uf]ga "Łigi Va]hh]b[imcifick bik cf\_ži]bik \ciYicfi]bidUfhžik \YfYi]h\UgidfYj]cigim VYYbidfYdUfYXicfigi Va]hhYXiZcfiUbch\YfiUggYggaYbhicfiWcifgYiUhi BGK icfiUbch\Yfib]jYfg]hm"

7 cffYWhfYZYfYbWjb[dfUWfjWYg.

- DUfUd\fUg]b[žigi a a Uf]g]b[žiYggUmk f]h]b[ 'UbX'h]a Yia UbU[ Ya Ybh
- 5ddfcdf]UhY i gY cZUbX Uhf]Vi h]cb Zcf U fUb[Y cZa UhYf]U g ]bWi X]b[ 'hYI hz ]a U[Ygz Zcfa i `UY UbX WcbWYdhg"

€DX]j ]Xi U``Ugg]gHJbWF`]g`Uj U]`UV`Y`cb`fYei YghŹca `H\Y`@YUfb]b[ `7 YbHY`f\Hd.#k k k "`Wi bgk "YXi "Ui #" Ghi XYbhg`UfY`U`gc`fYa ]bXYX`H\UhWUfYZ ``Ha Y`a UbU[ Ya Ybh']g`Ub`]a dcfHJbhdUfhcZghi XmUbX`cbY`cZh\Y ]XYbh]Z]YX`WJi gYg`cZd`U[ ]Uf]ga `]g`dccf`Ha Y`a UbU[ Ya YbH'Ghi XYbhg`g\ci `X`U``ck `gi ZZ]W]YbhHa Y`Zcf fYgYUfW\žXfUZf]b[ `UbX`dfcdYf`fYZYfYbW]b[ `cZgci fWfg`]b`dfYdUf]b[ `U```UggYgga Ybh]Ha g"

IBGK "@]VfUfmiU`gc`\Ugʻh\Y`9@~G9`hcc``UjU]`UV`Y`hc`Ugg]ghimci`k]h\`mcif`ghiXmiUhIBGK "`9@~G9`]g XYg][bYX`hc`]bhfcXiWY`bYk`ghiXYbhg`hc`ghiXm]b[`UhIBGK `Vih]hWUb`U`gc`VY`U`[fYUhifYZfYg\Yf`Xif]b[`mcif ghiXm"

7 ca d`Yhjb[ 'h\Y'9@~~~~~~ f]U``UbX'ei ]n'k ]``YbUV`Y'mci 'hc.

- UbU'mgY'hcd]Wgžd'Ub'fYgdcbgYg'UbX'cf[Ub]gY'fYgYUfWX'Zcf'UWUXYa]Wk f]hjb[''UbX'ch\Yf UggYgga YbhiHUg\_g
- **`**

### 5WUXYa]W=bZcfaUh]cb<sup>·</sup>

: cf'YggYbhJU``ghi 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/
- I BGK '<YU`h\ UbX'GUZYhmidc`]W}Yg/
- YI Ua ]bUh]cb'dfcWYXi fYg/
- gdYWJU`Wcbg]XYfUh]cb`]b`h\Y`Yj YbhcZ]``bYgg`cf`a ]gUXj Ybh fY/
- gh XYbhYei ]m/UbX X]gUV]`]m/
- UbX'ch\Yf'YggYbhJU''UWUXYa JWJbZcfa UhJcbž'gYY

<u>htdg.#k k k "Ufng"i bgk "YXi "Ui #W ffYbhgh XYbhg#UWUXYa ]W]bZcfa Uh]cb#dfchcWc`g![i]XY`]bYg#</u>

# ⊨a U[Y<sup>·</sup>7fYX]h

7 cbj YbcffġʻdYfgcbU``d\chc"

## 7F=7CG

7F=7CG'Dfcj]XYf'7cXY.'\$\$\$-,;