

# **MODL5117**

#blYfdfYl]b[ ']b '#blYfbUl]cbU`'GYlf]b[ g

GYa YghYf'Hk c''#'&\$%

# 7ci fgY<sup>·</sup>Cj Yfj ]Yk

## ~GHJZZ:7cbHJWh;8YHJ]`g

7cbj Ybcfg

B Ua Y	9a U]`	5j U]`UV]`] <b>m</b>	@cWUh]cb	D∖cbY

5 'ghi XYbhi]g'Yl dYWYX'hc'UhrYbX'U```WUgg'WebhUWi\ci fg'Zcf'U'ZUWY!hc!ZUWY'fl &: Ł'cf'V`YbXYX'Wei fgY'UbX Wea d'YhY'U```UWIjj ]hjYg'Zcf'U'VYbXYX'cf'Z ``mcb`]bY'Wei fgY"

5 'ghi XYbhik \c'Uff]j Yg'a cfY'h\Ub'%) 'a ]bi hYg'`UhY'a Um'VY'dYbU`]gYX'Zcf'bcb!UhhYbXUbWY'''=Zgi W\'U'dYbU`hm ]g']a dcgYXž'h\Y'ghi XYbha i gh'VY']bZcfa YX'j YfVU``m'Uh'h\Y'YbX'cZWUgg'UbX'UXj ]gYX']b'k f]h]b[ 'k ]h\]b'&(\ci fg''

ZU'gh XYbhYl dYf]YbW'g']`bYggža ]gUXj Ybh fY'cf'ch\Yf'cWW ffYbW'h\Uha U\_Yg'UVgYbW'Zfca 'U WUgg#JWNjj ]hmi bUj c]XUV`Yž'cf'Yl dYWg'hc'VY'UVgYbhZfca 'U'Zcfh\Wca ]b[ 'WUgg#JWNjj ]hmž'h\Ymg\ci `X'gYY\_ dYfa ]gg]cb'Zfca 'h\Y'7 ci fgY'5i h\cf]hmž'UbX'k \YfY'Udd`]WUV`Yž'h\Y]f'fYei Yghg\ci `X'VY'UVWca dUb]YX'VmUb cf[ ]bU`'cf'WYfhZYX'WcdmcZU'a YX]WU`'WYfhZWJhY'cf'ch\Yf'Zcfa 'cZUddfcdf]UhY'Yj ]XYbWY"

5.7 ci fgY '5 i h\cf]hma UmYI W gY 'U'ghi XYbhiZica 'WUggYg'cf'UWjj ]hJYg'Zcf'i d'hc'cbY 'a cbh\"' < ck Yj Yfž'h\Ym a UmUgg][ b'UXX]hJcbU``UbX#cf'U'hYfbUhJj Y'HUg\_g'hc 'Ybgi fY'Wca d`]UbW\"' 5.7 ci fgY '5 i h\cf]hm\\cbg]XYf]b[ 'h\Y [fUbh]b[ 'cZUVgYbW' 'a i gh'VY'gUhJgZJYX'U'ghi XYbhk ]``gh]``VY'UV'Y'hc'a YYhh\Y'Wci fgY'g'`YUfb]b[ 'ci h\\can Yg UbX#cf'j c`i a Y'cZ'YUfb]b[ "'5'ghi XYbhgYY\_]b[ 'Uddfcj U`'hc'VY'UVgYbhiZcf'a cfY'h\Ub'cbY'a cbh\'a i gh'Udd`m ]b'k f]hJb[ 'hc'h\Y'8YUb'UbX'dfcj ]XY'U``cf][ ]bU``cf'WYfhZYX'qi ddcfh]b[ 'XcW a YbhUhcb"

: cf'a cfY']bZcfa Uhjcb'UVci hih\Y'UhhYbXUbWY'dfchcWc`g']b'h\Y': UWY`hmicZ'5fhg'UbX'GcW]U` GW]YbWYg.'\hdg.##k k k "Ufhg"i bgk "YXi "Ui #W ffYbhgh XYbhg#UWUXYa ]W]bZcfa Uhjcb#dfchcWc`g![i ]XY`]bYg#

#### 5 WUXYa ]W = DZcfa Uhlcb.

: cf`YggYbh]U``ghi XYbh`]bZcfa Uh]cb`fY`Uh]b[ 'hc.`fYei Yghg`Zcf`Yl hYbg]cb/fYj ]Yk 'cZa Uf\_g/cWW dUh]cbU``\YU`h\ UbX`gUZ/hm/Yl Ua ]bUh]cb`dfcWXi fYg/gdYW]U``Wcbg]XYfZ/hm/ hm/ hm/

## 7ci fgY 8YHJ] g

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

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

H\]g`UXj UbWX`]bhYfdfYh]b[ `Wti fgY`dfYdUfYg`mci `Zcf`]bhYfdfYh]b[ `]b`]bhYfbUh]cbU``gYh]b[ gž]bWi X]b[ hci f]ga ž`\cgd]hU`]mž`UbX`Wi`h fU``Z]Y`Xgž]bhYfbUh]cbU``fY`Uh]cbg`UbX`dc`]h]Wgža YX]Už'Vi g]bYgg`UbX`gdcfh' 6i ]`X]b[ `cb`mci f`g\_]``g`UWti ]fYX`Xi f]b[ `h\Y`]bhYfdfYh]b[ `Wti fgYgž'mci `k ]```Yb\UbW' mci f WtbgYWi h]j Y`UbX`k \]gdYfYX`g]a i `hUbYci g`fUZgUZafSYWt]bhYfdfYh]b[ `g\_]``gž'UbX`k ]```VY`dfYdUfYX`hc ]bhYfdfYh]b`Wta d`YI `Yj Ybhg`fYei ]fYX`]b`h\Ya YX]U`fY"[ "ž`]bhYfj ]Yk gžE '/ `5t'UbX`Xi f]b[ `[ cj Yfba YbhUbX ch\Yf`]bhYfbUh]cbU``bY[ ch]Uh]cbg`fY"[ "ž`cZZ]W]U``ghUhYa Ybhgžfci bX!hU`Y`hU`\_gt"

#### 5 hh Y WcbWi g]cb cZh ]g Wci fgY h Y gh XYbh k ]``VY UV Y hc

- %" ]XYbhjZmUbX`UbU`mgY`X]ZZYfYbhimmdYg`UbX`[YbfYg`cZWca d`Yl`X]gWci fgY`fY`Yj Ubhinc`]bhYfdfYhjb[`]b ]bhYfbUhjcbU``gYhfjb[g
- &" YI d`U]b:h\Y:X]qWci fqY:cZ]bhYfbUh]cbU`:qYhh]b[q:]b:Vch\:`Ub[i U[Yq
- ' " UVWV fUHY`m]bHYfdfYh]b'H\Y'X]ZZYfYbha cXYg'cZ]bHYfbUh]cbU``gYHhb[ g
- ("W]hWU`mfYj]Yk fYgYUfW UbX dfcZYgg]cbU``]HYfUh fY UbX Udd`mhc dfUWhW
- ) " XYd`cmdi V`]WgdYU\_|b[ 'g\_]``g fY`Yj Ubhhc ]bhYfdfYh]b[ ']b ]bhYfbUh]cbU``gYhf]b[ g
- \*" 1 gh/Zmi/bh/fdf/h/b[ "UbX"Yh\ ]WU``W\\c]W\\g

#### HYUWX]b[ GhfUhY[]Yg

H\Y`Wci fgY`k]```Wca V]bY`h\YcfYh]WU``UbX`dfUWf]WU```YWh fYg`UbX`hi hcf]U`gžhc`XYj Y`cd`dfUWf]WU``g\_]``g`UbX gi V!g\_]``g`cZWcbgYW hjj Y`]bhYfdfYh]b[`k]h\ci hbchY`HU\_]b[žUbX`k]```]bj c`j Y`a i `h]`]b[i U``UbX`\ubX`k]h\ci hbchY`HU\_]b[žUbX`k]```]bj c`j Y`a i `h]`]b[i U``UbX`\ubX`[fci d`dUfh]W]dUh]cbžgh XYbhdfYgYbhUh]cbg`UbX`]bhYfdfYhUh]cbžUbX`dYYf!`UbX`gY`Za cb]hcf]b[`UbX`UggYgga Ybh'

5 X X ] h] c b U` `X Y h J ] `g.

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

Gh XYbhgʻUfYʻYl dYWYXʻhcʻdi hh\Y]fʻbUa YgʻUbXʻgh XYbhbi a VYfgʻcbʻYj YfmdU[YʻcZh\Y]fʻUgg][ba Ybhgʻ

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

#mci YbWci bhYf'U'dfcV`Ya k \Yb'UhYa dh]b[ 'rc'gi Va ]hmci f'Ugg][ ba Ybhh\fci [ \ 'Hi fb]h]bž'd`YUgY
hY`Yd\cbY'9I hYfbU`Gi ddcfhcb'-', ) "''' %cf'Ya U]`'h\Ya 'cb'<u>YI hYfbU`hY`hgi ddcfh4 i bgk "YXi "Ui"</u>"'Gi ddcfh
\ci fg'UfY', .\$\$Ua '-'%\$.\$\$da 'cb'k YY\_XUmg'UbX'-.\$\$Ua '-').\$\$da 'cb'k YY\_YbXg'fl \*) 'XUmg'U'mYUft!" #mci
UfY'i bUV`Y'hc'gi Va ]hmci f'Ugg][ ba YbhXi Y'hc'U'ZUi `hk ]h\ 'Hi fb]h]b'mci 'a UmUdd`m'Zcf'Ub'YI hYbg]cbž'Vi hmci
a i ghfYhU]b'mci f'h]W\_Yhbi a VYf'Zfca '9I hYfbU''Gi ddcfhfU'cb[ 'k ]h\ 'Ubmch\Yf'fY'Yj UbhXcW a Ybhgt'hc
]dU XYb

 $\bullet \ \ K \ cf\_"gi \ Va \ ] \\ \\ \text{'MYX'} \\ \text{'%'} \\ \text{'hc''} \\ \text{'XUmg''} \\ \text{UZhYf''h} \\ \text{Y'gh]} \\ \\ \text{di ``UhYX''} \\ \text{XYUX`]} \\ \\ \text{bY''k} \ ] \\ \\ \text{``VY''} \\ \text{UggYggYX''} \\ \text{UbX''} \\ \text{ZYYXVUW} \\ \\ \text{UhYX''} \\ \text{YYXVUW} \\ \text{UhYX''} \\ \text{UhX''} \\ \text$ dfcj ]XYX'Vi h'U'a Uf\_'cZnYfc'k ]``'VY'fYWcfXYX"'=Zh\Y'k cf\_'k ci 'X'\Uj Y'fYWf]j YX'U'dUgg'a Uf\_'Vi h'Zcf h\Y``UhYbYgg`UbX`h\Y`k cf\_`]g`U`Wca di `gcfmWci fgY`Wca dcbYbhf\\i fX`Y`fYei ]fYa Ybhz`U`gh XYbhk ]``dfV'gXWYa YX`hc`j\]XXYJba Yhh\UhfYei ]fYa Ybh/

### 5 WUXYa ]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"'=hWJb'hU\_Y`a Ubm Zcfa gžZfca `XY`]VYfUhY`W\YUh]b[ 'hc`UWW]XYbhU`mWcdm]b[ 'Zfca `U`gci fWY'k ]h\ci hUW\_bck `YX[ Ya Ybh'

IBGK [fcidgdu[]uf]ga ]bhch\YZc``ck]b[ WuhY[cf]Yg.

7 cdm]b[.'i g]b['h\Y'gUa Y'cf'j Yfmg]a ]`Uf'k cfXg'hc'h\Y'cf][]bU`hYl h'cf']XYU'k ]h\ci h'UW\_bck `YX[]b['h\Y gci fW'cf'i g]b['ei chUh]cb'a Uf\_g"'H\]g'U`gc'Udd`]Yg'hc']a U[Ygž'Ufh'UbX'XYg][b'dfcYWhgž'Ug'k Y``'Ug dfYgYbhUh]cbg'k \YfY'gca YcbY'dfYgYbhg'Ubch\Yf'g']XYUg'cf'k cfXg'k ]h\ci h'WfYX]h'

±DUddfcdf]UhY`dUfUd\fUg]b[.'W\Ub[]b['U'ZYk'kcfXg'UbX'd\fUgYg'k\]`Y`acghmfYhJ]b]b['h\Y`cf][]bU`ghfi WhifY`UbX`]bZcfaUh]cb`k]h\ci hUW\_bck`YX[YaYbh'H\]g'U`gc'Udd`]Yg`]b'dfYgYbhUh]cbg'k\YfY`gcaYcbYdUfUd\fUgYg`Ubch\Yf'g`]XYUg`cf'kcfXg'k]h\ci hWfYX]h''±iU`gc'Udd`]Yg`hc'd]YW]b['hc[Yh\Yf'ei chYg'UbXdUfUd\fUgYg`]bhc'U'bYk'k\c`Yžk]h\ci hfYZ/fYbW]b['UbX'U'ghi XYbh'g`ck b'UbU`mg]g`hc'Vf]b['h\Y`aUhYf]U`hc[Yh\Yf''

7 c``i g]cb. 'k cf\_]b[ 'k ]h\ 'ch\Yfg'Vi h'dUgg]b[ 'cZZh\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'ghi XYbhVYZcfY'h\Y'Xi Y'XUhYžcf'Zcf'h\Y'di fdcgY'cZh\Ya d`U[ ]Uf]g]b[ 'Uh'Ubmh]a Yž'dUm]b[ 'Ubch\Yf'dYfgcb'hc'dYfZcfa 'Ub'UWUXYa ]WhUg\_ž'ghYU`]b[ 'cf'UWei ]f]b[ Ubch\Yf'dYfgcb'g'UWUXYa ]Wk cf\_'UbX'Wcdm]b[ ']hz'cZYf]b[ 'hc'Wca d`YhY'Ubch\Yf'dYfgcb'g'k cf\_'cf'gYY\_]b[ dUma YbhZcf'Wca d`Yh]b[ 'UWUXYa ]Wk cf\_"

±bUddfcdf]UhY`W]hUh]cb.`7]h]b[ˈgci fW/gˈk \]WX`\Uj Y`bchVYYb`fYUXžk]h\ci hUW\_bck`YX[]b[ˈh\Y`″gYWcbXUfm″gci fW/Zfca k \]WX`\_bck`YX[Y`cZh\Ya`\Ug'VYYb`cVhU]bYX"

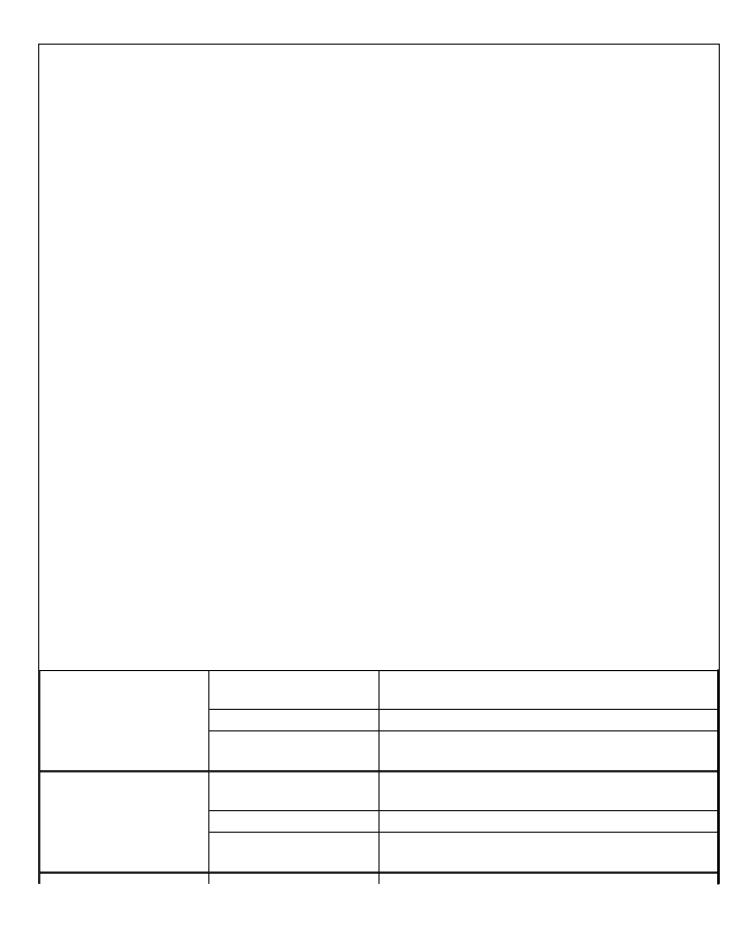
8 i d`]\WUh]cb`ff`gY`Zld`U[]\Uf]ga "Ł`gi Va]\h]b[`mci f`ck b`k cf\_ž]b`k \c`Y`cf`]b`dUfhžk\YfY`]h\Ug`dfYj]ci g`m VYYb`dfYdUfYX`cf`gi Va]\hYX`Zcf`Ubch\\$f`UqqYqqaYYbhcf\\&f`UhI BGK `cf`Ubch\Yf`]\m' '

7 cffy Wrify ZyfybWjb[ 'dfUWf)Wyg.

• DUfUd\fug]b[ ž'gi a a Uf]g]b[ ž'YggUmk f]r]b[ 'UbX'r]a Y'a UbU[ Ya Ybh

‰

• VYHYfa UbU[Ymcifh]a Y



	Hi hcf]U`	±bhYfdfYh]b[ 'Wca d`Yl 'gdYYW\Yg'UbX'ghUhYa Ybhg'k ]h\ bchY'hU_]b[ 'Zfca '@C H9	
K YY_'%'.'&&'CWhcVYf'! &, 'CWhcVYf	@YWhi fY	7 ci fgY WcbWi g]cb	
		DfYdUfUfjcb Zcf h\Y a cW_WcbZYfYbW	
	GYa ]bUf	DfYdUfUfjcb Zcfa cW_WcbZYfYbW	
		K cf_']b'ga U``'[ fci dg'cZlk c'cf'l\fYY'lc'XYg][ b'U gWbUf]c'k \YfY'cbY'gh XYbhk]``'VY'Ub'9b[`]g\'cf'U @C H9'gdYU_YfžUbX'Ubch\Yf'Ub']bhYfdfYhYf"'5'[ fci d cZlk c'k]``k cf_'cb'a cbc`c[ ]WU`dfYgYbhUh]cbgžZcf YI Ua d`Yž'k Y`Wca Y'gdYYW\Ygž'lcUghg'cf'dc`]h]WU`ghUhYa Ybhg"'5'[ fci d'cZh\fYY'k]``'dfYdUfY'U X]U`c[ ]WU`gWbUf]cž'k]h\'hk c'gdYU_Yfg'cZ9b[ `]g\ UbX'@C H9žUbX'Ub']bhYfdfYhYf'fhU_]b[ 'U'y ]g]hcf'cb'U [ i ]XYX'hci f'cZU'W]hmž]bhYfj ]Yk ]b[ 'U'W `hi fU`'Z][ i fY'cf Ub'Uh\`YhY/fci bX'hUV`Y'bY[ ch]cUh]cbgŁ"	
	Hi hcf]U`	5 hith Y 'YbX'cZh\Y'gYa ]bUf'dfYgYbhimci f'gWYbUf]c"	
	חו זכוןט	H\YfY`]g`bc`hi hcf]U``]b`K YY_'%`hc`U``ck `ghi XYbhg`hc dfYdUfY`Zcf`h\Y`)`Bcj Ya VYf`a cW_'WcbZYfYbWY''`-Z mci`\Uj Y`dfYj]ci g`mUWYX`Ug`U`gdYU_Yfž`]b`mci f gYWcbX`gWYbUf]c`mci`\Uj Y`hc`UWhUg`Ub`]bhYfdfYhYfž UbX`j]WY`j YfgU"	
		GdYU_Yfg`WUb`Y]h\Yf`UXUdh`YI ]gh]b[ `gdYYW\Yg`cf  fUbgWf]dhgž`cf`k f]hY`Ui h\Ybh]WcbYg`i g]b[ `h\Y gYh]b[ g`UbX`g]h` Uh]cbg`gh` X]YX`]b`h\]g`Wci fY"	

## FYgci fWyg

## DfYgWf]VYX F Ygci fWYg

### FYWca a YbXYX FYgci fWfg

5bXfYk; ]`]Ygž@afWŽfS] [`Y XadUa`eWUgf[hW[`fWbdWf[`Y, SeZadf UagdeWA UbW.YghYfž9b[`UbX.'Gh''>Yfca Y Di V"'&\$\$) '5j U]`UV`Y'Uh@Yj Y``\*žA U]b'@]VfUfmfG'(% "\$&#&%&\5bXfYk; ]``]Ygž@afWŽfS] [`Y XadUa`eWUgf[hW [`fWbdWf[`Y, SeZadf UagdeWA UbW.YghYfž'9b[`UbX.'Gh''>Yfca Y'Di V"'&\$\$) '5j U]`UV`Y'Uh@Yj Y``\*žA U]b@]VfUfmfG'(% "\$&#&%&\

FcS`e/Sf[a``; fWbdWf[`Y'\htd.#kkk"hfUbq!]bh'cf[#bXYI"d\d#fUbq]bh#bXYI\_fZfYY'cb`]bY'UWWgqk

;  $\footnote{WbdWf} Y'\underline{hdg.#WYbUa}\underline{bg''Wca#WUhUc[#cifbUg#bhd#aU]b} fUWWYgg'hc'h\Y'cb`]bY'j Yfg]cb'h\fci[\BGK '@]VfUfmŁ$ 

 $> Ygi g'6U][ cff]! > U`cb'f&$\%( Ł''8da_ BSde fa @gdW_TWdYžFZWT[dFZ aXUa`XWdW UW[`fWdbdWf[`Y'fk'' A ]__Y`gcb'/ '6"'G`Ui [ \hYf'C `gYbž'HfUbg"Ł'5a ghYfXUa #D\]`UXY`d\]U.'>c\b'6Yb^Ua ]bg'Di V`]g\]b[''7 ca dUbm'' <math>\pm$ 0 Fc\$` e'\$f[a` ` ;` fWdbcWf[`YJ c`'+ž'B c'&'f&\$%] Ł '\hd.#k k k "lfUbg!]bh'cf[ #bXYI "d\d#fUbg]bh'fggi Y#\_]Yk # \$ dd"'- %I - ( "

CF7  $\pm$ 1'fCb`]bY'FYgcifWYg'Zcf'7cbZYfYbWY' $\pm$ bYYfdfYhYf'HfU]b]b[ $\pm$ 1!'a UhYf]U'g'Zcf'`]ghYb]b[ $\pm$ 2'di V']WgdYU\_]b[ $\pm$ 2 WcbqYW'h]j Y $\pm$ 2'q]a i 'hUbYci q $\pm$ 1''q.'\hd.#cfWh'Yi #bXYI "d\d#YgqcifWYg#

91 GdYYWX fYdcg|rcfm&"\$. \hda.#k YV[UhY"YWYi fcdU"Yi #af#fcf mdY]b 91 gdYYWX fYdcg|rcfm&"\$\!

#### 7 ci fgY 9j U'i Uhjcb UbX 8 Yj Y'cda Ybh

 $H\[g'WcifgY'\Ug'VYYb'fYWY']j\]b[\ 'Wcbg]ghYbh'\][\ \'Yj\ U'i\ Uh]cbg'fUVcj\ Y'GW\]cc``UbX':\ UW'\hm'Uj\ YfU[\ YŁż'k\ ]h\ 'U \%$$i \ 'U[\ fYYa\ Ybh''$ 

 $H\ [g'mYUf'=k] \ [X]b['id'cZg_] \ [AcfY'bchY!hU_]b['id'cZg_] \ [AcfY'bchY!hU_]b['id'cZh_] \ [AcfY'bc$ 

#### =a U[ Y 7 fYX]h

Gcd\]U`FU`]bhYfdfYhg`Zcf`U`j ]g]h]b[`5Vcf][]bU``[fci d`]b`8UY[i ž`Gci h\`? cfYU`f&\$%( Ł''

#### 7F = 7CG

7 F = 7 C G 'Dfc| ]XYf'7 cXY. '\$\$\$-,;