

# **EDST5120**

EiU`]hUhjjY'FYgYUfVX'AYh\cXg

GYa YghYf'C bY''##'&\$%

# 7ci fgY Cj Yfj ]Yk

### GhJZZ7cbhJWh8YhJ]`g`

#### '7cbj Ybcfg'

B Ua Y	9a U]`	5j U]`UV]`] <b>m</b>	@cWUhjcb	D∖cbY
D\]cbU'GHJb`Ym	d\]cbU"gHJb`Ym4 i bgk "YXi "Ui	VmUddc]bha Ybh!!	<b>%</b> \$-	- ' , ) %- ++
		d`YUgY'Ya U]`'a Y		

#### GWkcc~7cbhJWh~abZcfa Uh]cb

GW.cc``cZ9Xi WUIJcb 5fhg`UbX'GcWJU``GWJYbWYg

@Yj Y``%z̈>c\b'; ccXgY```6i ]`X]b[ 'fl &\$Ł

H. 'Ž \* %'f&Ł'-',) '%-++

9. YXi WUhjcb4 i bgk "YXi "Ui

K . YXi WUNcb"Ufngi bgk "YXi "Ui

#### 5 h Y b X U b W F Y e i ] f Y a Y b h g

#### 5XX]h]cbU`GWXcc`cZ'9Xi WUh]cb'UhhYbXUbWY'fYei ]fYa Ybhq

#i]gYI dYWYX ih UhiUbmghi XYbhiYbfc``YX`]b`Ub`98GH`Wci fgY`k ]h\ ih\Y`GW\cc``cZ9Xi WUhjcb`k ]```a U\_Y`U Wca a ]ha Ybhhc ih\Y]f``YUfb]b[ `UbX`UhiYbX`U```WUggYg`]b`Z ```k\YfY`WcbhYbh]g`XY`]j YfYX`]b`U`ZJ\W!hc!ZJ\W a cXY`YI WYdh]b`\WfhU]b`\WfW a ghUb\Wg`k\YfY`UVgYb\W']g`Xi Y`hc`]``bYggža ]gUXj Ybhi fY`cf`i bZcfYgYYb WjfW a ghUb\Wg`VYmcbX`h\Y`ghi XYbhg`\Wcblfc`"``5`a ]b]a i a `UhhYbXUb\W`fYei ]fYa YbhcZ, \$i `]g`fYei ]fYX`Zcf YU\X`\Wci fgY"``±o`\WfhJ]b`\WjfW a ghUb\WgžU`ghi XYbha Uma ]gg`i d`hc`&\$i `cZU`\Wci fgY`k ]h\ci hZcfa U`

7ci fgY 8YHJ] g

7 fYX]h'Dc]bhg'\*

G) a a Wifmiczniak Y 7jjci fgY

Mci k]``YId`cfYž'UbX``YUfb'hc'Wf]hjeiYžeiU`]hUhjjY'fYgYUfWk']b'YXiWUhjcbž'UbX'mci k]``VY']bhfcXiWYX'hc so4.0 wi2ey m 6f6f6ein ntivseRG-6f6in lm sourse and you by n educat.y xplore, a

# 5i ghfu`]Ub DfcZYgg]cbU`; fUXi UhY HYUWX]b[ GhUbXUfXg

GHJbXUfX	8 YgWf]dh]cb
%"&"'	9I dUbX'i bXYfgHJbX]b[ 'cZ\ck 'ghi XYbhg'`YUfb'i g]b[ 'fYgYUfW\'UbX'k cf_d`UWY_bck `YX[ Y"
%"&"(	@YUX`dfcWfggYg`hc`Yj U`i UhY`h\Y`YZZYWhj YbYgg`cZhYUW\]b[`dfc[fUa g`i g]b[`fYgYUfW\`UbXkcf_d`UWF_bck`YX[Y`UVci hi\ck `ghi XYbhg``YUfb
&"%"(	@YUX`]b]h]Uh]j Yg`k]h\]b`h\Y`gW\cc``hc`Yj U`i UhY`UbX`]a dfcj Y`_bck`YX[Y`cZWcbhYbhUbX hYUW\]b[`ghfUhY[]Yg`UbX`XYa cbghfUhY`YI Ya d`UfmihYUW\]b[`cZgi V^YWng`i g]b[`YZZYWnjj Yž fYgYUfW\!VUgYX``YUfb]b[`UbX`hYUW\]b[`dfc[fUa g"
* "&"'	D`Ub`Zcf`dfcZYgg]cbU```YUfb]b[`VmUWWgg]b[`UbX`Wf]hjei ]b[`fY`Yj UbhfYgYUfWXžYb[U[Y`]b\][\'ei U`]miHuf[YhYX'cddcfhi b]hjYg`hc`]a dfcj Y`dfUWfjWY`UbX`cZZYf'ei U`]mid`UWYa Ybhg`ZcfdfY!gYfj ]WY`hYUWXYfg`k\YfY`Udd`]WUV`Y"
* "" "(	a d`Ya YbhdfcZYgg]cbU``X]U`c[i Y`k ]h\]b`h\Y`gW\cc``cf`dfcZYgg]cbU```YUfb]b[ 'bYhk cf_fgk h\Uh]g`]bZcfa YX`VmZYYXVUW_ž'UbU`mg]g`cZWiffYbhfYgYUfW\`UbX`dfUWfJWY`hc`]a dfcj Y`h\YYXI WUh]cbU``ci hWca Yg`cZghi XYbhg"

## 5ggYgga Ybh

### 5ggYgga Ybh'HUg\_g'

5ggYgga Ybh'HJg_	K Y][ \h	Gh XYbh@YUfb]b[ Ci hWca Yg 5ggYggYX	5 +HG@'DfcZYgg]cbU`; fUXi UhY HYUW\]b[ 'GhUbXUfXg'5ggYggYX	8iY 8UhY
7 f]h]WU``fYZYW•]cb`	(\$1	% <u>~</u> &	%"&"' ž&"%"( ž* "&"' ž* "' "(	&*#\$'#& \$% \$).\$\$ DA
E i U`]ŀUŀij Y fYgYUfW\`dfcdcgU``	*\$1	&Ž Ž(	%"&"( ž&"%"( ž* "&"' ž* "' "(	%( #\$) #& \$% \$) .\$\$ DA

D'YUgY fYZYf hc 3gefcS/[S` BdaXWee[a`S^EfS` VSdVe XadFWSUZWde cb h\Y dfYj ]ci g'dU[Y

# 5ggYgga Ybh'8YhJ]`g

5ggYgga Ybh% 7f]h]WU`fYZYWh]cb

GhUfhXUhY. Bch5dd`]WUV`Y

**8 YHJ]`g.** `HUg\_`%'! `7 f]h]\W\``fYZY\W]cb`cZdi V`]g\YX`fYgYUf\\@Yb[ h\.`%) \$\$`k cfXgGh XYbhg`k ]```fY\\]j Y`k f]hh\b ZYYXVU\W\_`k ]h\]b`%\$`XUmg`cZgi Va ]gg]cb"

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

 $\label{thm:condition} $$H\g''H\g''' fle'fygYUfWX'dUdYfg'Zfca'hY'gYgg]cb!VmgYgg]cb!VmgYgg]cb!VmgYgg]cbfYUX]b['']gh'$ 

 $\label{thm:condition} $$H\Y'cbYg'k \] hci hghtfg'ufY'a YhcXc`c[mdUdYfgž'k \]WX'Xc'bchdfYgYbhcf][\] bu``fYgYufWX'- 'gc'd`YugY'Xcb'h hfmhc'ubu`mgY'hcgY''$ 

5 bgk Yf Wf]hJWU``mth\Y'Zc``ck ]b[ 'ei Ygh]cbg Zcf YUW\ cZh\Y'tk c'ghUffYX'dUdYfg.

%" 4 f[\forall \textit{W}\textit{riging} \frac{a}{2} \textit{Sfleq} \textit{W}\textit{V}\textit{W}\textit{R}\textit{T}\textit{R}\textit{R}\textit{T}\textit{R}\textit{R}\textit{T}\textit{R}\textit{R}\textit{T}\textit{R}\textit{R}\textit{T}\textit{R}\text

(" 7 ca a Ybh'Vf]YZmcb'h\Y'i  $d[f[YS]V'SkagfaXfZWbSbWd'hc'k \UhYl hYbhX]X'mci 'Z|bX']hYUgmcf X]Z[W'hfUbX#cf']bhYfYgh]b['cf'bch]bhYfYgh]b['E'hc'fYUX3'< ck'a ][\hih\Y'k f]hYf\Uj Y']a dfcj YX']h3$ 

 $\label{thm:continuous} \begin{tabular}{ll} Hi & fb & fb & gYM &$ 

5ggYgga Ybh& Ei U`]hUhjj Y fYgYUfW dfcdcgU`

GhUfhXUhY. Bch5dd`]WUV`Y

**8YHJ]`g.** `HUg\_`&'! `8Yj Y`cd`U`ei U`]HUhjj Y`fYgYUfW\`dfcdcgU`@Yb[ h\.`() \$\$`k cfXg`Gh XYbhg`k ]```fYWY]j Y ZYYXVUW\_`k ]h\]b`%\$`XUmg`cZgi Va ]gg]cb"

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

5gg][ ba Ybh& 8Yg][ b U ei U`]hJh]j Y fYgYUfW dfcdcgU`

H\]g`HUg\_`fYei]fYg`mci `hc`XYj Y`cd`U`dfcdcgU``Zcf`U`eiU`]HUhjj Y`fYgYUfW\`dfcYWhh\Uhmci `a][\hWcbXi Wh]bYXi WUh]cb"`Mci `Xc`bchbYYX`hc`WcbXi Whh\Y`dfcYWhZcf`h\]g`HUg\_žVi h]h]g`U`[c6] ]hBfYdcfhg"

cZdi V`]g\YX`fYgYUfW\`fUbX`]hg`C? hc`WcbZUhY`h\]g`gYWfjcb`k ]h\`h\Y`a Yh\cXg`gYWfjcb`]Zh\]g`]g`h\Y\\W\gY`\c\Vi\h\\]inci ibYYX`hc`g\ck`h\Uhmci 'UfY`Uk\UfY`cZUbmYh\]\W\`]ggi Yg`]b`mci f`dfcdcgYX`dfc`Y\Wf\\K\\Yb`mci 'X]g\W\gg`dcg]h]cbU`]hmz`mci 'bYYX`hc`\Wcbg]XYf`\ck 'mci f`]XYbh]hm]\bh\fgY\Wg`k]h\`h\Y\fYgYUf\\Z`UbX`k\Yh\Yf`h\]g`fU]gYg`UbmYh\]\\W\`cf`fYgYUf\\X`XYg][\b`]ggi Yg`f\cf`YI\Ua\d`\Z`]Zmci 'UfY`U\\Y\U\X\Yf`UbX`mci ']\bh\fb\X`hc`]\bh\fj\]Yk\`ghi XYbhg`Uhmci f`g\\Xcc`Z`mci f`dcg]h]cbU`]hma\][\hfU]gY\\ei\Ygh]cbg`Ufci bX`h\Y`YI\h\bh\hc`k\]\\mathrig\Tmci f`dUff\]\\d\d\bhg`k\]``\VY`\cbYgh]\b`k\Uhh\Ymh\```mci '-`a\][\h\\\YmVY`hfm]\b[`hc`]a\df\gg`mci z`UbX\&f`hY```mci 'k\Uhh\Ymh\]\b\_`h\Y`f[]\h\`Ubgk\Yf`]g`3\end{array}

# Gi Va ]gg]cb cZ5ggYgga YbhHUg\_g

 $Gh\ XYbhg\ UfY\ YI\ dYWMYX\ hc\ di\ hih\ Y]f\ bUa\ Yg\ UbX\ gh\ XYbhbi\ a\ VYfg\ cb\ Yj\ YfmdU[\ Y\ cZh\ Y]f\ Ugg][\ ba\ Ybhg\ bug\ Ybhg\ bug\ Yhhg\ Yhhg\ bug\ Yhhg\ Yhhg\ bug\ Yhhg\ bug\ Yhhg\ bug\ Yhhg\ bug\ Yhhg\ bug\ Yhhg\ Yhhg\ bug\ Yhhg\ Yhhg\ bug\ Yhhg\ Yhhg\$ 

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

Zmci 'YbWci bhYf'U'dfcV'Ya 'k \Yb'UhhYa dh]b[ 'hc'gi Va ]hmci f'Ugg][ ba Ybhh\fci [ \'Hi fb]h]bžd'YUgY hY'Yd\cbY'9| hYfbU''Gi ddcfhcb'-',)'''' %cf'Ya U]''h\Ya 'cb'<u>Yl hYfbU'hY`hgi ddcfh4 i bgk "YXi "Ui</u>"'Gi ddcfh ł `G][ b]Z]\WbhmUZZY\Wimci f`dYfZcfa Ub\Wr`]b`UggYggUV`Y`k cf\_ž`VY`]h'U`Zcfa U``YbX!cZgYa YghYf`Yl Ua ]bUh]cbž`U \WUgg`hYghž`U``UVcfUhcfmhYghž`U`gYa ]bUf`dfYgYbhUh]cb`cf`Ubmch\Yf`Zcfa 'cZUggYgga 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 [fcidg'd'U[]Uf]ga ]bhc'h\Y'Zc``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'

#JUddfcdf]UhY`dUfUd\fUg]b[.'W\Ub[]b['U'ZYk'k cfXg'UbX'd\fUgYg'k\]'Y`a cghmfYhU]b]b['h\Y`cf][]bU`ghi Whi fY`UbX']bZcfa Uh]cb`k]h\ci h'UW\_bck `YX[Ya Ybh''H\]g'U`gc'Udd`]Yg']b'dfYgYbhUh]cbg'k\YfY`gca YcbYdUfUd\fUgYg'Ubch\Yf'g']XYUg'cf'k cfXg'k]h\ci h'WfYX]h''#iU`gc'Udd`]Yg'hc'd]YW]b['hc[Yh\Yf'ei chYg'UbXdUfUd\fUgYg']bhc'U'bYk'k\c`Yž'k]h\ci h'fYZYfYbW]b['UbX'U'ghi XYbhg'ck b'UbU`mg]g'hc'Vf]b['h\Y'a UhYf]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\Yf`UqqYqqa Ybhcf\Wci fgY`UhI\_BGK\_`cf`Ubch\Yf`i b]\Yfq]\m"

7 cffYWhfYZYfYbWb[ dfUWhWyg.

• Dufud\fug]b[žgi a a Uf]g]b[žYggUmk f]h]b["UbX"h]a Y a UbU[Ya Ybh

•

- VYMYfa UbU[Ymcifh]a Y
- i bXYfgHJbX'mci f'f][ \hg'UbX'fYgdcbg]V]`]h]Yg'Ug'U'ghi XYbh'Uhi BGK
   VY'Uk UfY'cZd`U[ ]Uf]ga ž'Wcdmf][ \hž'I BGK 'Ghi XYbh'7cXY'cZ7cbXi Wh'UbX'5WWYdhJV`Y'I gY'cZ I BGK '= H'F Ygci fWfg'Dc`]Wm

# 7ci fgY GWX YXi `Y

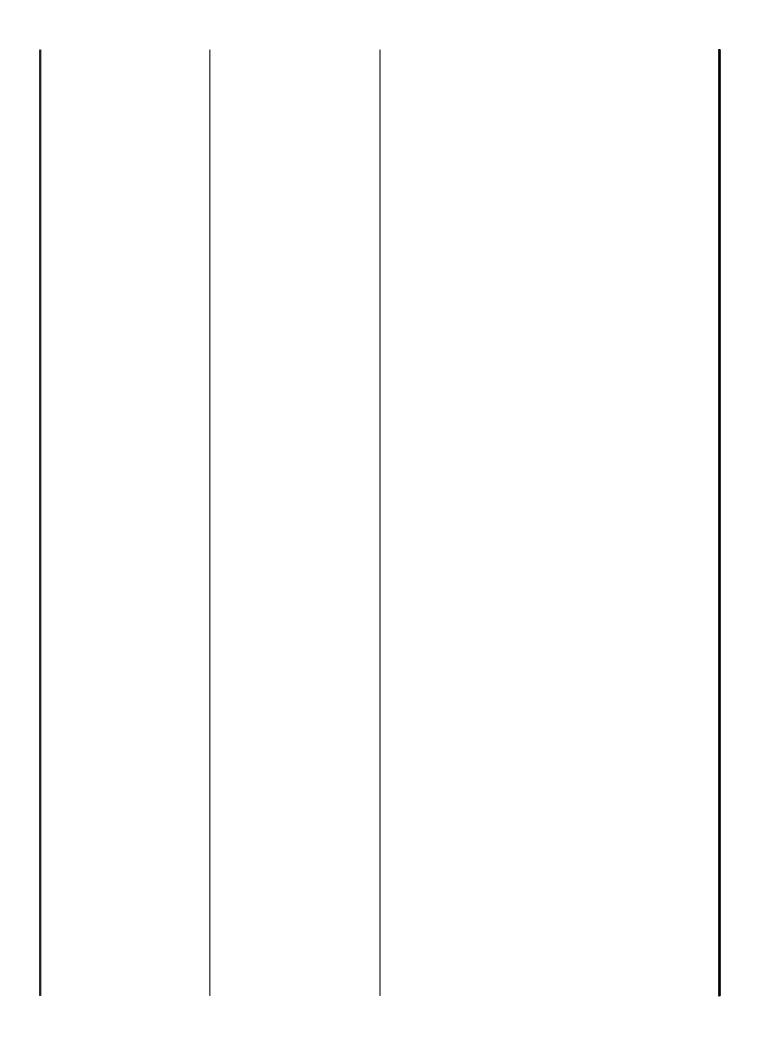
# J]Yk 'WUgg'h]a YhUV'Y

# H]a YtUV`Y

BUHY	HmdY	7 cbh/bh
( YY_', .'&' '5df]`'!'&-	⇒bhYbg]j Y	GYgg]cb'%'K\Uh']g'fYgYUfVX3
odf]`		C Hcc`Y'/ '6YW <u>'</u> Yth`7\%~7\&
		C MCC 17 OTVV_11117 \727\2
		@]a ž'A "'G"'7"ž' <y``ufxž'a "'9ž'ubx'5]h_yb'ž'7"'?"<="" td=""></y``ufxž'a>
		f&\$\$) Ł"`H\Y`WUgY`cZh\Y`X]gUddYUf]b[`hYUgdccbg. 孟汝貞g麻cxjþg:wbUUb※為] '7 i ; xj   b※麻YgX負似XJg bb ;
		(@GDANDCX)DAN MOOODA.

ł: Y] Yf'<c``YbVYWž5"'f&\$%) Ł"'H\Y'ZJa]`]Uf cVaYfi Yf. GYY]b[ VYmcbX'h\Y'YI dYWYX']b YXi WUMcbU`fYgYUfWX";`fWd Sf[a`S^<agd S^aX D WeWSdJZ S`V? WfZaV [`7 VgUSf[a`ž', f&Łž%(-!%\*)" łAW UffmžC"f&\$%) Ł"FYdcg]hcb]b[h\YfYgYUfW YbWci bhYf. 91 d`cf]b[ 'dck Yf'XmbUa ]Wg'UbX dcg]hcbu`]hm]b mci h\fYgYUfW\";`fWdSf[a`S^<agdS^ aXEaUſS^DWeWSdUZ?WfZaVa?aYkž8C.≢ %\$"%\$, \$#% \*())+-"&\$%)"%\$%% &% IGHUbYmžD"f&\$%&L"GidYf\YfcYg]bG\Ub[\U]. 7 cbaffi Who ["UbX"] | b ["ffUbabUhcbU"K YahYfb a UgW`]b]hYg"'9WVWdB'SUWS`V5g'fgdW3<agd S aX8W [ [ef 9 WaYdSbZk #+f&tz &% !&' % łH\ca gcbžD"'UbX'; i bhYfž'<"'f&\$%⁄Ł"'≢bg]XYž ci hg]XYži dg]XY Xck b. H\Y Zi ]X]hmcZUWUXYa ]W fYgYUfWkYf']XYbh]mh']bkcf\_]b[k]h\#bgWkcc`ž ;`fWdSf[a`S^<agdS^aXDWeWSdJZS`V?WfZaV[` 7 VqUSf[a` %&f%±ž"%+!' \$ GYgg]cb'('@cWUh|b['mcif'ghiXm]b'h\Y'`]hYfUhifY' C Hcc`Y'/ '6YW Yth'7\'\* 8 i bbYž7"'f&\$%%£"'H\Y'd`UWY'cZh\Y'`]hYfUhi fY'fYj]Yk ]b^[ fci bXYX^h\YcfmfYgYUfWX"; `fWd Sf[a`S^<agd S^ aXEaU[S^DWeWSdJZ?WfZaVa?aYkł?%(f&tž?%%13%(" BU UhUž'M''f&\$%) Ł"'=bg]XYf-ci hg]XYf'dYfgdYWh]i Y. FYj]q]h|b["h\Y"WcbWYdhiU`"ZfUaYkcf\_"cZfYqYUfW\ a Yh\cxc`c[mi]b``Ub[iU[Y'hYUW\Yf'YXiWUh]cb" ; fWd Sf[a`S^<agd S^aXDWeWSdJZ S`V?WfZaV[ 7 VgUSf[a`ł%\*f&Łž\*%\*\*!%'" łHcfbYfcž6"UbX"HUi hžG"f&\$%\$Ł"5 a UbXUhcfmž \][\!qhU Yg'BUhcbU`HYUW\Yf'9;U`i Uhcb'GmghYa. DYfWYdhcbg'UbX'UhfjVi hcbg'cZhYUVXYfg'k\c UWAji Y`mifYZi gY hc dUfAjWjdUhY" E fgV[We [`7VgUSf[a`S/ 7 hS′qSf[a` %(ž% &-%(&" GYgg]cb') '9d]ghYa c`c[]Ygža Yh\cXc`c[]YgžUbX a Yh\cXg. DUfh% 5bcj Yfj ]Yk

C Hcc`Y'/ '6YW<u>Y</u>Hh'7\'('



```
fYgYUfWX"; TWd Sf[a S^<agd S^aXDWeWSdJZ S V
? WfZaV (`7 VgUSf[a`ł %%f%Lž', )!--".
Gi`HUbUž: "'f&$$+Ł"''FYZYI]j]mždcg]hjcbU`]hmUbX
dUfh|W|dUhcfmYh\]Wa. BY[ch|Uh|b[Z]YXkcf_X]YaaUq
]b:]bH/fbUh]cbU`:fYgYUfW\":55? 7, 3`;`fWd Sf[a`S^72
<agd S^{\Delta}d5dfUS^9WaYdSbZWe*fI½" +(!',)"
@YYž'A "'7 "'M''f&$%) Ł: ]bX]b[ 'W 'hi fU`'\Ufa cbmi]b
;`fWdSf[a`S^<aqdS^aXDWeWSdUZS`V?WfZaV[`
7 VqUSf[a`ž'8 C ₹'%$"%$, $#%+('+&+L"&$%)"%$%-())"
A YbUfX!K Ufk ]W_ž'>"'f&$%\L''5'a Yh\cXc\c[]\W\
fYZYW1jcb.cb.th.Y.dfcW/gg.cZbUffUhjjY.UbU.mg]g.
5`|YbUHcb'UbX'|XYbHmi]b'H\Y'`|ZY'\]ghcf|Yg'cZ9b[`]g\
`Ub[iU[Y'HYUWXYfg"'F7EA > CgSdfWdk & # .
) * (!) +("
bUffUhji Y`]bei ]fm]b H9GC@:7\U``Yb[Yg'UbX
fYk UfXq"F7EA > CqSdfWdk &'!'.") +)!), ("
GYgg]cb',
8 UHU Wc``YWNjcb DUfh&Ch\YfgcifWyg
ł⇒XY`UbXžA "'UbX'A U`a VYf[ž7"'f&$%(Ł'Cif
WcaacbkcfX'VY`cb[ghc'lg'.7cbghfiWhcbgcZ
ch\YfbYgg`]b`YXi WUhcb`Zcf`gi ghU]bUV`Y
XY; Y`cda Ybh' 5 dffUS^E fgV[We [ 7 VgUSf[a`ž)) fl Łż
' * - | ' , * "
ł: ]fa ]b[Yfž'?"'6"'f&$$*Ł"'€j'\Y'VcmZf]YbX'a UhYf]U`3
FYdfYgYbhUhcbicZaUiYgilbihYYbU[Yi[]fig'
a U[ Un]bYgž? W S`V? SeUg1 [f[We *f1 ½ &-,!'$,"
6flb a UbbžG"f&$% Ł"8clb[klhkci hXUHU"
GYgg]cb - 5bU`mg]b[ XUhU
C Hcc`Y'/ '6YW Yth'7\',
? cfc!@^ b[ VYf[ ž'A "`f&$%* Ł"`8 UhU`k Ubhg`UbX`XUhU
YbHJb[`Ya Ybhg`fW\' `cZDWJa` UWbfgS{[e[`Y
cgS/ffSf[hWdNeWSdJZžGU[Y-gYYfYUX]b['`]ghVY`ck
```

I	7 67 50 70 70	1
	Zcf'Z ``'WJtUtjcbt"	
	ł Ghyk Ufhž'A "'f&\$%) Ł"'H\Y''l Wf]h]W]ga ']b'U'gh XYbhYj U'i 7 VgUSf[a` S^7 hS′gSf[a` ())	Uhjcbigi fj Ym''EfgV[We [
	K ]`gcbž:5"`@'`f&\$\$- Ł''`@YUft UbU`mg]g`UbX`f\Y`ghi Xm'UbX YXi WUh]cb"`E fgV[We [` 5a` f %1%&"	(idfUWnJVWicZUXi ih
	A UWI fYžA "'UbX'GHcbUW\z Vcl Yg.'5'dcgHa cXYfb'dYf lfUbgZcfa UHcb'cZdYfgcbg'	gdYWnjjY'cb'h\Y

WefWd Web fWSUZ[Y7'Y fez [ 5Z[S, EZS'YZS[W]
·

## FYgci fW/g

### DfYgWf]VYX F Ygci fWYg

 $H9LH6CC?. `CHcc`Yž'>"`UbX`6YW\underline{Y}Hz''8"`f&$\% E"`9Xi WUh]cbU``fYgYUfWX. `7fYUh]j Y`h\]b_]b[``UbXXc]b[``fgYWcbX`YX]h]cbE"`A Y`Vci fbY. `ClZcfX`lb]j Yfg]hmDfYgg"`$ 

### FYWca a YbXYX FYgci fW/g

>ci fbu` Ufh]WYg UfY`]ghYX gYgg]cb!VmgYgg]cb UVcj YžUbX UfY U`` Uj U]`UV`Y cb h\Y Wci fgY A ccX`Y g]hY" Mci Xcb hbYYX hc fYUX Yj YfmUfh]WY Zcf YUWX gYgg]cb = fYU`]gY h\YfY UfY U``chcZfYUX]b[g``]ghYX° ±bghYUXžh\YmUfY cfXYfYXžZcf YUWX gYgg]cbž]b a mgi [[YghYX cfXYf cZ\ck ]a dcfhUbh# gYZl` h\YmUfY" Gc ]Zmci cb`m \Uj Y h]a Y hc fYUX U ZYk UXX]h]cbU` Ufh]WYgžfYUX h\Y Z]fghcbY Zcf YUWX gYgg]cbžcf ]Zmci \Uj Y U V]ha cfY h]a YžfYUX h\Y Z]fghrk c Zcf YUWX gYgg]cbžUbX gc cb" 6i ha U\_Y gi fY mci ``cc\_ Uhh\Y hYI h\Cc\_ WX UdhYf Zcf YUWX gYgg]cb Z]fghr k Y k]`` VUgY ci f

H\YfY`k]``VY`Ub`cddcfhi b]hm]b`Yj YfmgYgg]cb`hc`X]gW gg`]XYUg`UbX`dfcj ]XY`ZYYXVUW\_"`K Y`k]```U`gc`Xca ]bi hY`dUdYfg`UbX`ch\Yf`Zcfa Uh]j Y`ZYYXVUW\_YI YfW]gYg`]b`WUgg"

GiaaUhjj Y'ZYYXVUW\_'k]```VY'[Uh\YfYX'VmA m9IdYf]YbWY'gifj Ymg"'

•

#b 'fYgdcbgY' hc 'Zcfa Uhlj Y' UbX'gi a a Uhlj Y' ZYYXVUW\_ cj Yf'j Uf]ci g'mYUfgžh\]g'Wci fgY'\Ug'Yj c`j YX'UbX WXUb[YX'hc'UWWca a cXUhY'gh XYbhgfibYYXg'UbX']bhYfYghg"' #b 'dUfh]W\`Ufžh\Y'Wci fgY'bck '[cYg']bhc'a cfY XYdh\ 'fUbX'WcbhU]bg'a cfY'fYj ]g]cb 'UbX'a cfY'Yl d`]Wh`YUfb]b[ "E'cZh\Y'hYfa ]bc`c[mi gYX']b'ei U`]hUh]j Y a Yh\cXg"' #iY'U`gc'UXXYX'a cfYžUbX'a cfY'fYWbhei U`]hUh]j Y'gh X]Yg'Zfca 'U'fUb[Y'cZYXi WUh]cbU``gYhn]b[g"

: cf`ghi XYbhg`Zca `ci hg]XY`cZh\Y`X]gWjd`]bY`cZYXi WUhjcb.`d`YUgY`bchY`h\Uhih\]g`]g`U`Wci fgY`]b`ei U`]hUhjj Y fYgYUfW.`a Yh\cXg`[` WWgUSf[a` "'=h]g`Z]bY`Zcf`bcb`YXi WUhjcb`ghi XYbhg`hc`hU\_Y`h\]g`Wci fgYžVi h'd`YUgY`VY Uk UfY`h\Uhih\Y`WcbhYI hg`cZh\Y`fYgYUfW.`ghi X]Yg`k Y``cc\_`Uh'UfY`]b`YXi WUhjcbU``gYhjb[g"'

### ⇒a U[Y'7fYX]h

GmbYf[]Yg^]b^GcibX^&\$%\*

#### 7F = 7CG

7F = 7CG Dfc| ]XYf 7cXY. \$\$\$-,;