

CRIM3019

F YghcfUhji Y '>i ghJWY

HYfa 'Hk c''##'&\$%-

7ci fgY^{*}Cj Yfj]Yk

[']GhJZ'7cbhJWh'8YhJ]`g'

'7cbj Ybcfg'

B Ua Y	9a U]`	5j U]`UV]`] m	@cWJhjcb	D\cbY
>UbY 6c`]h\c	"Vc`]h\c4 i bgk "YXi "Ui	9a U]`'Zcf	; %-	-',)&%-'
		Uddc]bha Ybh'		

'@YWhi fYfg'

BUa Y	9a U]`	5j U]`UV]`]m	@cWUh]cb	D\cbY
A Uf_' <ua]`hcb<="" td=""><td>a Uf_"\Ua]`hcb4 i bgk "YXi "Ui</td><td>9a U]`'Zcf</td><td></td><td></td></ua>	a Uf_"\Ua]`hcb4 i bgk "YXi "Ui	9a U]`'Zcf		
	-	Uddc]bha Ybh'		

'Hi hcfg'

B Ua Y	9a U]`	5j U]`UV]`]lm	@cWUh]cb	D\cbY
<c``m'6`uw<u>a cfY</c``m'6`uw<u>	_	9a U]`Zcf Uddc]bha Ybh'		

GWXcc`7cbHJWhi±bZcfa Uhjcb

GWXcc``cZGcWJU``GWJYbWYg

Fcca '%) -

A cfj Yb 6fck b 7 &\$

Ya U]`. 'gcgg4 i bgk "YXi "Ui

d\cbY. '\$&'-',) '% \$+

7ci fgY 8YHJ] g

7 fYX]hDc]bhg *

Gi a a UfmcZh\Y'7ci fgY

Gi VYWh5fYU. 5d[[a aYk

9 I d`cfYg`h\Y`h\YcfmUbX`dfUWf]WY`cZfYghcfUhjj Y`^\ gh]WY\h\Uh]gž'WcbZ]WifYgc`i hjcb`h\Uh]bj c`j Y`j]Wf]a gž cZYbXYfg`UbX`Wca a i b]hjYg`]b`U`^c]bhXYVJg]cb!a U_]b[`dfcWYgg`fUh\Yf`h\Ub`HfUX]hjcbU```Y[U``UbX`Wci fH VUgYX`fYgdcbgYg''`5ggYggYg`h\Y`ghfYb[h\g`UbX``]a]hUhjcbg`cZfYghcfUhjj Y`^\ gh]WYž'UbX`YI Ua]bYg`]hg Udd`]WUhjcb`]b`U'j Uf]YhmcZgYhhjb[g`Zfca `mci h\ ^\ gh]WY`WcbZYfYbW]b[`hc`]b!df]gcb`fYghcfUhjj Y`dfc[fUa gžhc]bX][Ybci g`WJfWY`gYbhYbW]b[žhc`gW\cc``UbX`k cf_d`UWY`Vi ``m]b[`UbX`hc`h\Y`[`cVU``UfYbU"

7 ci fgY @YUfb]b[Ci hWca Yg

- %" 7 \Ufhih\Y`Ya Yf[YbWY`cZh\Y`fYghcfUh]jY`^\gh]\WY`a cjYa Ybh``cWU``miUbX`]bhYfbUh]cbU``m
- &"Cih]bY'h\Y'h\YcfYh]WU``UddfcUV\\Ygždf]bV]d`Yg`UbX'XYZ]b]h]cbg'i bXYf`m]b['fYghcfUh]j Y'^1 gh]W'd\]`cgcd\mUbX'fYZYWhcb'X]ZZYfYbW\g'hc'ch\Yf'a cXY`g'cZWf]a]bU``^1 gh]W\''UbX'WcbZ]WhfYgc`i h]cbdfcW\gqYq
- ' " 5ddfYWJUHY 'Wca a cb'Wf]hjei Yg'cZh\Y'fYghcfUhjj Y'a cj Ya YbhUbX'h\Y'dfUWfJWU``W\U``Yb[Yg'cZ]a d`Ya YbhUhjcb'dUffjW'`Uf`mWcbWfb]b['Uddfcdf]UHY'fYgdcbgYg'hc'Wca d`Yl 'UbX'gYbg]hjj Y'WcbZ]WhgWfbUf]cg
- ("5ddfU]gY'W ffYbhYj U`i Uh]cb``]hYfUhi fY'cb'fYW]X]j]ga žgUh]gZJWf]cb'UbX'ch\Yf'a YUgi fYg'cZgi WWgg Zc``ck]b['fYghcfUh]j Y'dfcWfggYg
-) " C i h]bY a UbmcZh\Y 'Udd`]WUh]cbg'cZfYghcfUh]j Y 'h\Ycfm']b'dfUWfJWYž'\][\`][\h]b['ghfYb[h\g'UbX k YU_bYggYg']b'hYfa g'cZVYghdfUWfJWY

HYUW]b['GhfUhY[]Yg'

H\]g'Wci fgY'dfca ch'g'U'd\]`cgcd\mcZgh XYbH\WbhYXz'gh XYbH\YX''YUfb]b['UbX''YWi fY'UbX'h hcf]U`U\W]j]h]Yg'h\fci [\ci h'UfY'XYg][bYX'hc'Yb\wci fU[Y'h\Y'XYj Y`cda YbhcZU'ghfcb['UbX'dcg]h]j Y''YUfb]b[\wca a i b]hm]b'k\]\W\\U'''gh XYbhg'\Wb'a UI]a]gY'h\Y]f'ck b'dchYbhJU''''Cj YfU``zh\Y'\wci fgY'i gYg'a i 'h]d'Y hY\\b]ei Yg'fU'a]I 'cZZJ\W'!hc!ZJ\W'X]g\W gg]cb'UbX'U\W]j]h]Yg']b'[fci dg'cZX]\ZZYfYbhg]n\Yg'gi ddcfh\X'\mU fUb[Y'cZf\Ygci f\W'g'UbX'U\W]j]h]\Yg\LUbX'U\HJ Y'cZUgg\Ygga YbhdfU\W]\W'g']b'cfX\Yf'hc'Ybgi fY'h\Uh\Yj Yfm gh XYbhz']ff\Ygd\Y\M]j Y'cZh\Y]f'ck b'`YUfb]b['ghm\Yz'\Wb'U\W\gg'h\Y'\wci fgY'a Uh\Yf]U``f\YUX]`mUbX']b'U dfcXi \W]j Y'a Ubb\Yf''

5ggYgga Ybh

5ggYgga Ybh'HUg_g'

5ggYgga Ybh'hJg_	K Y][\h	8iY'8UhY	Gh XYbh@YUfb]b[Ci hWca Yg 5ggYggYX
DfYgYblUlfjcb.	(\$1		% <u>)</u>
9ggUmi	*\$1	%(#\$, #&\$% `%%) - `DA	& ž ž(

5ggYgga Ybh8YHJ]`g

5ggYgga Ybh% DfYgYbhUh]cb

GhUfhXUhY. Bch5dd`]WUV`Y

 $8YHU]^*g. : UW]^HUH]cb^*cZ\%hcd]WXi f]b[^hh^cf]U^*f]bX]j^]Xi U^*E''^7 ca d^YHYX^]b^WUgg^VYhk YYb^k YY_g^&!\%$''K f]HHYb ZYYXVUW_k]h^jb^&k YY_g'''$

Hi fb]hb qYhhb[. H\]q]q bchU Hi fb]hb Uqq][ba Ybh

5ggYgga Ybh& 9ggUm

 $\textbf{GhUfhXUhY}. \ \texttt{Bch5dd`]} \textbf{WUV`Y}$

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

 $8YHJ]^*g. "H\] g"UggYgga Ybh\Ug"Hk c"dUfftg"9ggUmd`Ub.", $$^*k cfXg"" Mci "k]```fYWY]j Y"Zcfa Uffj Y"ZYYXVUW_"fbc [fUXYZ"UggYgga Ybhk Y][\hi$i &k]h\]b"&"k YY_g"":]bU``YggUm" $$$^*k cfX'k f]hhYb"YggUm" Nci "k]```fYWY]j Y k f]hhYb"ZYYXVUW_"k]h\]b"&"k YY_g""$

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

5 'Vf]YZfJ \$\$k cfXŁ'd`Ub cZh\Y'YggUm]g'Xi Y']b'K YY_') ž'Zcfa UhJj Y'UggYgga Ybhk]``VY'dfcj]XYX''''

 $\label{eq:higher} \textbf{Hi fb]hjb'gYhjb[.'H\]g'Ugg][ba Ybh]g'gi Va]hhYX'h\fci [\'Hi fb]hjb'UbX'gh XYbhg'Wbb'gYY'Hi fb]hjb'g]a]'Uf]hm fYdcfhg''$

Fygci fWyg

DfYgWf]VYX F Ygci fWYg

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'UhYa dhJb['hc'gi Va]hmci f'Ugg][ba Ybhh\fci [\ 'Hi fb]hJbž'd`YUgY
hY`Yd\cbY'9| hYfbU``Gi ddcfhcb'-',) '' ' ' %cf'Ya U]`'h\Ya 'cb'Y! 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'mYUft'' =Zmci
UfY'i bUV`Y'hc'gi Va]hmci f'Ugg][ba YbhXi Y'hc'U'ZUi 'hk]h\'Hi fb]hJb'mci 'a Um'Udd'mZcf'Ub'Y! hYbg]cbžVi hmci
a i ghfYhU]b'mci f'hJW_Yhbi a VYf'Zfca '9! hYfbU``Gi ddcfhfU'cb['k]h\'Ubmch\Yf'fY`Yj UbhXcW a Ybhgt'hc
]bWi XY'Ug'Yj]XYbW'hc'gi ddcfhmci f'Y! hYbg]cb'Udd`]WUhJcb'' =Zmci 'Ya U]`'9! hYfbU``Gi ddcfhmci 'k]``

$5\,WUXYa\,W< cbYghmUbXDU[\,Uf]ga$

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



5 WUXYa]W±bZcfa Uhjcb

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

- fYei YghgʻZcfʻYl hYbg]cb/`UhYʻgi Va]gg]cbgʻ[i]XY`]bYg/
- fYj]Yk 'cZa Uf_g/
- I BGK < YU`h\ UbX GUZYmdc`]W]Yg/
- YI Ua]bUh]cb dfcWXi fYg/