



CRIM3022

Di V`jW< YU'h`UbX'7 cffYWjcbg

HYfa `Cby`#`&\$&%

GWcc`cZGcWJU`GWYbWg`#`1 BGK`5ffg`UbX`GcWU`GWYbWg



7ci fgY`Cj Yfj]Yk

GhJZ`7cbhJW`8YhJ]`g

7cbj Ybcfg

B Ua Y	9a U]	5j U]UV]]m	@cW]h]cb	D\cbY
Hcbm6i hYf	hVi hYf4 i bgk "YXi "Ui	9a U]`Zcf Uddc]bha Ybhg	GUa i Y`g 6i]X]b[`fi &) tZ @Yj Y`&	B #5
>UbY`<k Ub[^UbY"\k Ub[4 i bgk "YXi "Ui	9a U]`Zcf Uddc]bha Ybhg	GUa i Y`g 6i]X]b[`fi &) tZ @Yj Y`&	B #5

GW\cc``7cbhJW`bZcfa Uh]cb

7ci fgY'8YHJ]`g

7fYX]hDc]bqg`*`

Gi a a UfmicZh\Y'7ci fgY

Df]gcbYfgž`Wca a i b]mVUgYX'cZYbXYfgž`UbX'cH\Yf'XYHJ]bYY [fci dg`YI Yfh\i [YžgcW]U`ž\YU'H`UbX
YWcbca]W]a dUWg'cb`h\Y`Wca a i b]mUbX'dcgY'g][b]Z]WbhW\U`Yb[Yg'Zc'f'gcW]Ym'H\cgY`]b`WcbhUWk]h
h\Y`↑gh]W`gmghYa`YbXi fY'gca Y'cZh\Y`k cfgh\YU`h`ci hWca Yg`]b`h\Y`Wca a i b]m]b`hYfa g'cZa YbHJ`

XYVUH'k \YfY'hYmk]''VY'YbWti fU[YX'hc'k cf_]b'hUa g]b'dfYdUf]b['WcbhYbhZcf'hY]f'XYVUH]b['hcd]Wg'j]U
Ub'cb']bY'X]gW'gg]cb'VcUfX'gYHi d']b'A ccX'Y''; fci d'XYVUH'g'k]''dfcj]XY'Ub'cddecfh b]hmZcf'ghi XYbhg'hc
i bXYfgtUbX'Vch'g]XYg'cZhY'gca Yk \UhWcbfj Yfg]U''bUhi fY'cZhY'cZYbXYf'\YU'h'Z'Y'Xz']bWi X]b[
YI d'cf]b['UgdYWg'cZ\i a Ub'f][\hg'UbX'Yh]Wg'k]h]b'hY'df]gcb'WcbhYI h''C b']bY'dUf]W]dU]cb'Zcf'[fci d
XYVUH'g'k]''Ugg]gh]b'YbWti fU[]b['U[fci d'YZcfhUbX'dfcj]XY'U'd'UhZcf'fa 'Zcf'YUgmX]gW'gg]cb'cZ]XYUg

5ggYgga Ybh

5ggYgga YbhHUg_g

5ggYgga YbhHUg_g	K Y][\h	8i Y'8UH	Gh XYbh@YUfb]b[Ci hWta Yg'5ggYggYX
F YZYW]cb'	&)	&\$#\$' #&\$&%%%) - 'DA	%
Di V]W\YU'h 'dc`]WnVf]YZ) \$	\$\$#\$(#&\$&%%%) - 'DA	%ž&ž' ž(
7`Ugg'XYVUH'	&)	&#\$(#&\$&%\$) . \$\$'DA	&ž' ž(ž)

5ggYgga Ybh8YHJ]`g

5ggYgga Ybh% 'F YZYW]cb

GHUfhXUH. 'Bch5dd]WUV`Y

@Yb[h. , \$\$!%\$\$\$

8YHJ]`g.

Gh XYbh'k f]Y'U'fYZYW]cb'f] \$\$!%\$\$\$'k cfXg'cb'h.Y]f'YUfb]b['UVci hU'hd]WcZ'h.Y]f'Wc]W'Wc] YfYX']b
K YY_`%) 'cZ'h.Y'Wci fgY" Gh XYbh'k]'fYZYW]cb'h.Y'YZYW]cZ'h.Y]f'YUfb]b['cb'h.Ya gY] Yg'UbX'h.Y]f'Z h fY
k cf_#dfcZYgg]cb" Gh XYbh'k]'fYVW]j Y'k f]hYb'ZYXVUW'UbX'U'bi a Yf]W]`[fUXY'hk c'k YY_g'Z'`ck]b[
gi Va]gg]cb" H'Y'ZYXVUW_g\YYh#f] Vf]Wk]'VY Uj U]UV`Y'hc'gh XYbh'g'c'h.Uh'h.YmWUb'k cf_'hc'k UfXg
gdYW]ZYX'ghUbXUfXg"

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

K cfX`ja]hg'UfY'gh]W]'5'bi a Yf]W]`[fUXY'k]'VY']j Yb" HYb'dYf'W'bh'cZ'h.Y' [fUXY'k]'VY'`cghZcf'Yj Yfm
XUmicZ`UH'gi Va]gg]cb' i d'hc'U'a Ul]a i a 'cZ) 'XUm]g" '5ZYf) 'XUm]g'UH'Ugg][ba Ybh'k]'bchVY'UWW'dhYX"
5D5'cf< Uf] UfX'fYZfYbW]b['ghmY']g'hc'VY'i gYX"

Hi fb]h]b'gYH]b[. H\]g'Ugg][ba Ybh]g'gi Va]hYX'h'fci [\ Hi fb]h]b'UbX'gh XYbh'WUb'gYY'Hi fb]h]b]g)a]Uf]hm
fYdcf]g"

5ggYgga Ybh& 'Di V]W\YU'h 'dc`]WnVf]YZ

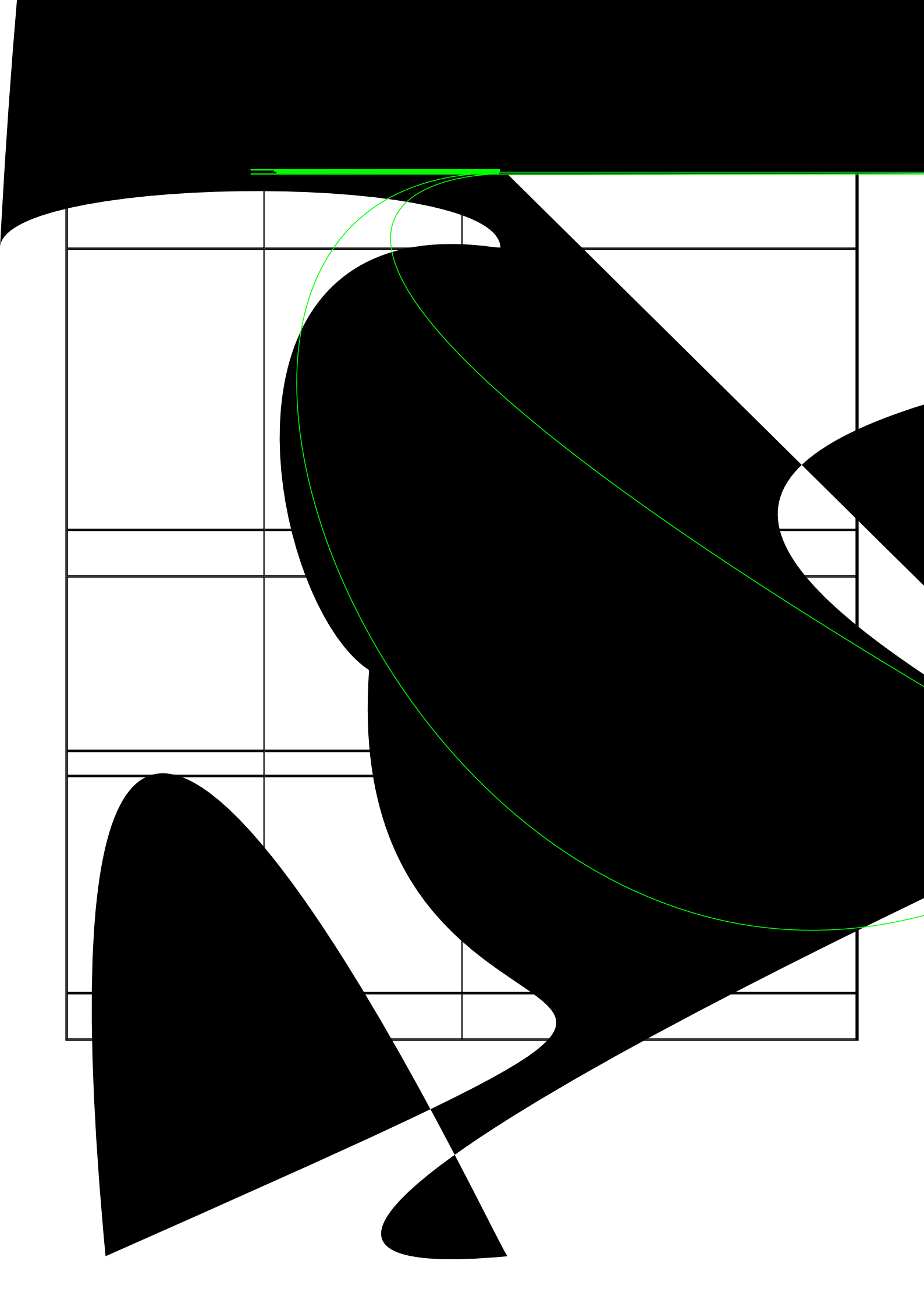
GHUfhXUH. 'Bch5dd]WUV`Y

@Yb[h. '&\$\$\$'k cfXg

8YHJ]`g.

Gh XYbh'k]'k f]Y'U'&\$\$\$!k cfX'dc`]WnVf]YZcb'U'di V]W\YU'h]ggi Y']b'5i ghfU']U'UZZYW]b['df]gcb

dc di `U h]c b g: f Y" [" " a Y b h U ` \ Y U ` h ž g i V g h U b W ` i g Y ž c f] b Z ` W h c i g ` X] g Y U g Y g k " 5 " `] g h c Z Y] [] V ` Y ` h c d] W g ` k] ` V Y
d f c j] X Y X ` h c ` g h i X Y b h g ž V U g Y X ` c b ` h \ Y ` Y W h i f Y g " H \ Y ` g h i X Y b h i k] ` V Y ` U g _ Y X ` h c ` U X c d h i h Y ` d Y f g c b U ` c Z U b `] b h Y f b
Z c f ` h \ Y ` 8 Y d U f h a Y b h c Z > i g h] W ` U b X ` 5 h c f b Y m ; Y b Y f U ` k \ c ` \ U g ` V Y Y b ` U g _ Y X ` h c ` d f Y d U f Y ` U ` V f] Y Z b [` d U d Y f ` h c ` U
A] b] g h Y f ` c b ` U ` d c `] W i f Y g d c b g Y ` h c ` h \ Y ` W X c g Y b ` d i V] W \ Y U ` h `] g g i Y " ` H \ Y ` g h i X Y b h g \ c i ` X ` W] h] W ` m Y I U a] b Y ` h \ Y



F Ygci fWg

DfYgWf]VYX`F Ygci fWg`

5j U]UV`Y`cb`A`ccX`Y

F YWca a YbXYX`F Ygci fWg

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

H\]g`Wci fgY`\Ug`i bXYf[cbY`Wcb]bi ci g`Yj U`i Uh]cb`UbX`XYj Y`cda Ybhg]bVW`]rg`ZfghcZZf]b[`]b`&\$%+`
Gh XYbhZYXVUW`fY[UfX]b[`hY`Wci fgY`\Ug`VYYb`Wc`YWX`j]U`hY`i b]j Yfg]m]g`A m9I dYf]YbVW`gi fj Ymg
UbX`j]U`dYfgcbU`Wc`ffYgdcbXYbVW`k]h`Wci fgY`ghUZZ`GHUZZ`c`h]g`Wci fgY`\Uj Y`Wca d`YhX`hY`i b]j Yfg]m]g
: ci bXUh]cbg`cZi b]j Yfg]mi@YUfb]b[`UbX`HYUW]b[`dfc[fUa žk \]W`\Ug`Yei]ddYX`hYa `k]h`YZZW]j Y
Yj U`i Uh]cb`hc`g`hc`UggYgg`hY`gfi W]i fY`UbX`XY`j YfmcZWci fgY`Wcb]b]b]UggYgga YbhUbX`ZYXVUW`
9I Ua d`Yg`cZWci fgY`XYj Y`cda Ybh]b`fYgdcbgY`hc`gh`XYbhZYXVUW`UbX`ghUZZYj U`i Uh]cb`Zca `&\$%-
]bWi XY`Ub`UX↑ ghYX`h]a Y`]bY`Zc`f`UggYgga Ybhg`&`UbX`" žUX↑ g]a Ybhg`hc`hY`cfXYf`cZ`YW]i fYgž`UbX`bYk `m

5 WUXYa]W< cbYgmiUbX`D`U[]Uf]ga

D`U[]Uf]ga]g`i]g]b[`hY`k cfXg`cf]XYUg`cZcH.Yfg`UbX`dFYgYbh]b[`hYa`Ug`mci`f`ck`b`" #WU]b`hU`_Y`a`Ubm`Zcfa`gZ`Zca`XY`]VYfUH`VX`YU]b[`hc`UW]XYbhU`m`Wc`dm]b[`Zca`U`gci`fW`k`]h`ci`hUW`bck`YX[Ya`Ybh`

I`BGK`[`fci`dg`d`U[]Uf]ga`]bhc`hY`Zc`ck`]b[`WU]h[`cf]Yg.

7`cdm]b[`i`g]b[`hY`gUa`Y`cf`j`Yfmg]a`]Uf`k`cfXg`hc`hY`cf][`]bU`hY`hcf`]XYU`k`]h`ci`hUW`bck`YX[]b[`hY`gci`fW`cf`i`g]b[`ei`chU]cb`a`Uf`_g`"H`]g`U`gc`Udd`]Yg`hc`]a`U[YgZ`Ufh`UbX`XYg][`b`dfc`YWgZ`Ug`k`Y`Ug`dFYgYbhU]cbg`k`YfY`gca`YcbY`dFYgYbhg`Ubch`Yf`g`]XYUg`cf`k`cfXg`k`]h`ci`hWYX]h`

#Uddfcdf]U]h`dUfUd`fUg]b[`7`U]b[]b[`U`Zk`k`cfXg`UbX`d`fUgYg`k`Y`a`cghm`fYhU]b]b[`hY`cf][`]bU`ghf`W`fY`UbX`#`f`dfc[`fYgg]cb`cZ]XYUg`cZ`hY`cf][`]bU`Z`UbX`]bZcfa`U]cb`k`]h`ci`hUW`bck`YX[Ya`Ybh`H`]g`U`gc`Udd`]Yg`]b`dFYgYbhU]cbg`k`YfY`gca`YcbY`dUfUd`fUgYg`Ubch`Yf`g`]XYUg`cf`k`cfXg`k`]h`ci`hWYX]h`UbX`hc`d]YW]b[`hc[Yh`Yf`ei`ch`g`UbX`dUfUd`fUgYg`]bhc`U`bYk`k`c`Yz`k`]h`ci`hUddfcdf]U]h`fY`ZY`fY`bW]b["

7`c`i`g]cb.`k`cf_]b[`k`]h`c`hYfg`Vi`hdUgg]b[`cZ`hY`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`g]h`XYbh`VY`Zc`fY`hY`Xi`Y`XU]h`Zc`f`Zc`f`hY`di`fdcgY`cZ`hY`a`d`U[]Uf]g]b[`Uh`Ubmi]ja`Yz`dUm]b[`Ubch`Yf`dYfgcb`hc`dYfZcfa`Ub`UWUXYa`]W]Ug`_`Z`gh`U`]b[`cf`UW`i`]f]b[`Ubch`Yf`dYfgcb`g`UWUXYa`]Wk`cf_]UbX`Wc`dm]b[`]Z`cZ`Yf]b[`hc`Wc`a`d`Yh`Ubch`Yf`dYfgcb`g`k`cf_]cf`gY`Y_]b[`dUma`Ybh`Zc`Wc`a`d`Y]b[`UWUXYa`]Wk`cf_]`

#Uddfcdf]U]h`W]hU]cb.`7`]h]b[`gci`fW`g`k`]W`Uj`Y`bch`VYYb`fYUX`Z`k`]h`ci`hUW`bck`YX[]b[`hY`gY`Wc`bXUfm`gci`fW`Zca`k`]W`_`bck`YX[Y`cZ`hY`a`Ug`VYYb`c`VhU]bYX"

8`i`d`]WU]cb`ff`gY`Z`d`U[]Uf]ga`E`gi`Va`]h]b[`mci`f`ck`b`k`cf_]b`k`c`Y`cf`]b`dUf]Z`k`YfY`]h`Ug`dFYj`]ci`g`m`VYYb`dFYdUfYX`cf`gi`Va`]hYX`Zc`f`Ubch`Yf`UggY`gga`Ybhcf`Wc`i`fgY`Uhi`BGK`cf`Ubch`Yf`i`b]j`Yfg]h`

7`c`ffY`W]fY`ZY`fY`bW]b[`dfUW]W]g.

- DUFUd`fUg]b[žgi`a`a`Uf]g]b[žYggUmk`f]h]b[`UbX`h]a`Y`a`UbU[Ya`Ybh`
-

5 WUXYa]W=Zcfa Uh]cb

: cf`YggYbh]U`ghi XYbh]bZcfa Uh]cb`fY`Uh]b[`tc.

- fYei Yg]Zcf`YI H`bg]cb/
-