



# ARTS3218

>UdUbYgY`< ]ghc fm `A cXYfb `A ]fUWYg `UbX `A m\c `c [ ]Yg

HYfa `H\fYY`##`&\$&\$



GWcc`cZ< i a Ub]hYg `UbX `@Ub [ i U[ Yg` `#` I BGK ` `5 frg `UbX `GcWU` `GWYbWg

7ci fgY`Cj Yfj JYk

GHJZZ7cbHJW`8YHJ]`g

7cbj Ybcfg

B Ua Y	9a U]`	5j U]`UV]`]m	@cWU]cb	D\cbY
8f`GU``mA W@UfYb	gU``m'a WUfYb4 i bgk "YXi "Ui	j ]U`Ya U]`		

GWXcc``7cbHJW`bZcfa Uh]cb

GWXcc``cZ<i a Ub]hYg`UbX`@Jb[ i U[ Yg

@cWU]cb. `GWXcc``C Z]W`ZA cfj Yb`6fck b`6i ]X]b[ ž@Yj Y``&ž&),

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

D\cbY. `Ž\*%&`-' , ) `%, %

: U! . `Ž\*%&`-' , ) ; , +\$)

9a U]: [\U`4 i bgk "YXi "Ui](#)

7ci fgY'8YHJ]`g

7fYX]hDc]bhtg`\*`

Gi a a UfmicZ`h`Y'7ci fgY

H\Y`Wci fgY`YI d`cfYg'a cXYfb`>UdUbYgY`< ]gtrfmiZ`ca`h`Y`ja dYf]U`fYgtrfU`h`cb`cZ%`\*`,`h`c`UZ`Y`f`h`Y`D`U`W`Z`W`K`U`f`Z`ca`U`b`]`b`h`f`X`]`g`W`d`]`b`U`f`m`d`Y`f`g`d`Y`W`h`j`Y`" `h`Z`c`W`g`Y`g`c`b`>UdUbYgY`W`h`f`U`z`g`c`W`]`U`b`X`[`Y`b`X`Y`f`h`g`tr`f`m`f`h`b`]`h`z`m`c`i`k`]"`Y`U`f`b`U`V`c`i`h`a`U`f`[`]`b`U`]`g`Y`X`[`f`c`i`d`g`U`b`X`a`c`j`Y`a`Y`b`h`g`c`Z`f`Y`g`]`g`h`U`b`V`W`/`h`Y`f`b`Y`k`>UdUbYgY`k`c`a`U`b`f`Z`W`U`Z`A`W`h`f`Y`U`b`X`g`Y`I`k`c`f`\_`Z`ca`h`Y`f`f`c`U`f`]`b`[`h`k`Y`b`h`Y`g`f`d`f`Y`k`U`f`f`U`X`]`W`]"`h`Y`f`U`h`f`Y`/`U`b`X`d`c`g`h`k`U`f`d`c`d`i`U`f`W`h`f`Y`" `D`c`]"`h`W`]"`g`tr`f`m`i`c`d`]`W`g`]`b`W`i`X`Y`k`Y`g`h`Y`f`b`!`g`h`m`Y`a`c`X`Y`f`b`]`g`U`h`c`b`U`b`X`]"`h`g`X`]`g`W`c`b`h`Y`b`h`g`/`b`U`h`c`b`U`]"`g`a`U`b`X`h`Y`Y`a`d`Y`f`c`f`!`g`m`g`h`Y`a`]"`X`Y`c`c`[`m`/`U`g`k`Y`" `U`g`>UdUbYgY`k`U`f`g`U`b`X`Y`a`d`]`f`Y`" `5`W`b`f`U`h`Y`a`Y`]"`g`h`Y`U`a`V`]`j`U`Y`b`h`b`U`h`f`Y`c`Z`d`f`c`[`f`Y`g`g`f`b`U`d`U`b`f`g`]`a`c`X`Y`f`b`f`a`]`f`U`W`Y`g`f`U`b`X`h`Y`]"`f`f`k`c`k`b`!`g`]`X`Y`g`f`i`z`U`b`X`W`c`b`h`Y`b`X`]"`b`[`f`Y`d`f`Y`g`Y`b`h`U`h`c`b`g`c`Z`>UdUb`U`b`X`]"`h`g`d`U`W`]"`b`5`g`]`U`U`b`X`h`Y`a`c`X`Y`f`b`k`c`f`X`"

7ci fgY`@YUfb]b[ `Ci hWca Yg

%`8`Y`a`c`b`g`h`f`U`h`Y`\_`b`c`k`Y`X`[`Y`c`Z`h`Y`]"`g`tr`f`m`i`c`Z`a`c`X`Y`f`b`>UdUb`"  
&`5`b`U`m`g`Y`a`c`X`Y`f`b`>UdUbYgY`]"`g`tr`f`m`i`h`f`c`i`[`]"`h`Y`" `Y`b`g`c`Z`[`Y`b`X`Y`f`U`b`X`Z`Y`a`]"`b`]`g`h`g`W`X`c`U`f`g`]"`d`"  
'`" `7`c`b`g`h`f`i`W`h`i`b`i`U`b`W`X`U`f`[`i`a`Y`b`h`g`U`V`c`i`h`a`c`X`Y`f`b`>UdUbYgY`]"`g`tr`f`m`i`]`b`k`f`]"`h`Y`b`U`b`X`#`c`f`j`Y`f`V`U`" `Z`c`f`a`"  
(`" `9`I`d`U`]"`b`\_`Y`m`X`Y`V`U`h`Y`g`U`b`X`W`c`b`W`d`h`g`]"`b`a`c`X`Y`f`b`>UdUbYgY`]"`g`tr`f`m`i`  
)`" `@`c`W`U`h`Y`U`b`X`U`b`U`m`g`Y`d`f`]`a`U`f`m`i`U`b`X`#`c`f`g`Y`W`c`b`X`U`f`m`i`a`U`h`Y`f`]`U`f`Y`Y`j`U`b`h`i`c`a`c`X`Y`f`b`>UdUbYgY`]"`g`tr`f`m`i`

HYUWX`]"`b`[`G`h`f`U`h`Y`[`]"`Y`g`

H\]`g`Wci fgY`i`g`Y`g`Y`W`i`f`Y`g`z`f`Y`U`X`]"`b`[`g`U`b`X`]"`b`X`Y`d`Y`b`X`Y`b`h`f`Y`g`Y`U`f`W`X`h`c`h`Y`/`

# 5ggYgga Ybh

## 5ggYgga YbhHUg\_g`

5ggYgga YbhHUg_	K Y][ \h	8i Y'8UHŸ	Gh XYbh@YUfb]b[ Ci hWta Yg'5ggYggYX
A U'cf'9ggUmi	( \$i	K YY_`%\$	%ž&ž ž( ž)
⊖!7`Ugg'HYgh, %`	&\$i	K YY_`(`	%ž( ž)
⊖!7`Ugg'HYgh, &`	&\$i	K YY_`+`	%ž( ž)
⊖!7`Ugg'HYgh, ' `	&\$i	K YY_`%\$	%ž( ž)

## 5ggYgga Ybh8YHJ]`g

5ggYgga Ybh%`A U'cf'9ggUm

GhUfhXUHŸ. K YY\_`%\$

8YHJ]`g.

: cf'h]g`fygYUfW`YggUmžmci`UFY`fYei`jfyX`tc`gY`YWŸCB9`cZŸY`h`fY`YggUmei`Ygh]cbg`h`UhUFY`dcghYX`cb`A`ccX`Y``⊖`mci`f`fygdcbgY`tc`h`Y`ei`Ygh]cb`mci`a`i`ghfygYUfW`UbX`W]h]W]`mYI`Ua`]bY`h`Y`a`U]b`W`b`W`d`hg`UbX`h`Y`W`fY`Uf`[`i`a`Y`b`hg`fY`UHŸX`tc`h`Y`k`YY\_]`b`k`\\W]`mci`f`ei`Ygh]cb`k`Ug`X]gW`ggYX`"

9ggUm]k`j`VY`&ž`\$\$`k`cfXg`cb[`ž`UbX`k`j`VY`gi`Va`]hYX`j`]U`Hi`fb]h]b`cb`A`ccX`Y``:`YYXVUW`k`j`VY`j`]U`fi`Vf]W`UbX`bi`a`Yf]W]`a`Uf`\_"

Hi`fb]h]b`gYh]b[`.H\]g`Ugg][`ba`Ybh]g`gi`Va`]hYX`h`fci`[`\`Hi`fb]h]b`UbX`ghi`XYbh]Xc`b`chgYY`Hi`fb]h]b`g]a`]Uf]mifYdcf]g`"

5ggYgga Ybh&.`⊖!7`Ugg'HYgh, %`

GhUfhXUHŸ. K YY\_`(`

8YHJ]`g.

H\]g`]g`h`Y`ž]f]g]cZ`h`fY`h`Y`g`hg`UbX`]b`W]`XYg`&\$`a`i`h`d`Y`W`c]W]`ei`Ygh]cbg`"

:`YYXVUW`k`j`h]Y`h`Y`Z`cfa`c`ZU`bi`a`Yf]W]`a`Uf`\_`UbX`cfU`W`c`a`a`Ybh`"

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

7cj`Yfg`W`b`h`bh]Z`ca`k`YY\_g`%ž`&ž`""H\Y`h`Y`ghk`j`W`b]g]ghcZ`&\$`a`i`h`d`Y`!`W`c]W]`ei`Ygh]cbg`V`UgYX`cb`h`Y`fY`UX]b[`gž`Y`W]`fY`UbX`h`h`c`f]U`W`b`h`h`bh]fY`Y`j`Ub]h`c`h`Y`k`YY\_g`VY]b[`UggYggYX`"M`ci`f`a`Uf`\_`k`j`VY`fY`Y`UgYX`U`dd`f`c]`j`a`U`h`m`c`b`Y`k`YY\_`U`Z`Y`f`c`b`A`ccX`Y`ž`UbX`Z`f`h`Y`f`Z`Y`X`V`U`W`k`j`VY`[`]`j`Y`b`]b`U`gi`V`g`Y`ei`Y`bh]h`h`c`f]U`j`]U`U`[`Y`b`Y`f`U`X]g`W`gg]cb`"

5ggYgga Ybh' . !7`Ugg`HYgh. &

GHUfhXUHy. 'K YY\_`+`

8YHU]`g.

H\]g`]g`hY`gYVcbX`cZhfYy`hYghg`UbX`]bWl XYg`&\$`a i`hd`Y`Wxc]W`ei Ygh]cbg`"

: YYXVUW\_k ]`hU\_Y`hY`Zcfa`cZU`bi a Yf]WU`a Uf`UbX`cfU`Wca a Ybh`

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

7cj Yfg`WcbhYbhZfca`k YY\_g`(`z) z+`"H\Y`hYghk ]`Wcbg]ghcZ&\$`a i`hd`Y!`Wxc]W`ei Ygh]cbg`VUgYX`cb`hY`fYUX]b[ gZ`YVWl`fY`UbX`h`hcf]U`WcbhYbhfY`Yj`Ubhfc`hY`k YY\_g`VY]b[ `UggYggYX`"Mci`f`a Uf`\_k ]`VY`fY`YUgYX`Uddfcl`ja`UH`mcbY`k YY\_`UZfYf`cb`A`ccX`Yz`UbX`Z`fhYf`ZYXVUW\_k ]`VY`[ ]j`Yb`]b`U`gi`VgYei`Ybh`h`hcf]U`j`]U`U`[`YbYfU`X]gW`gg]cb`"

5ggYgga Ybh( . !7`Ugg`HYgh. '

GHUfhXUHy. 'K YY\_`%\$`

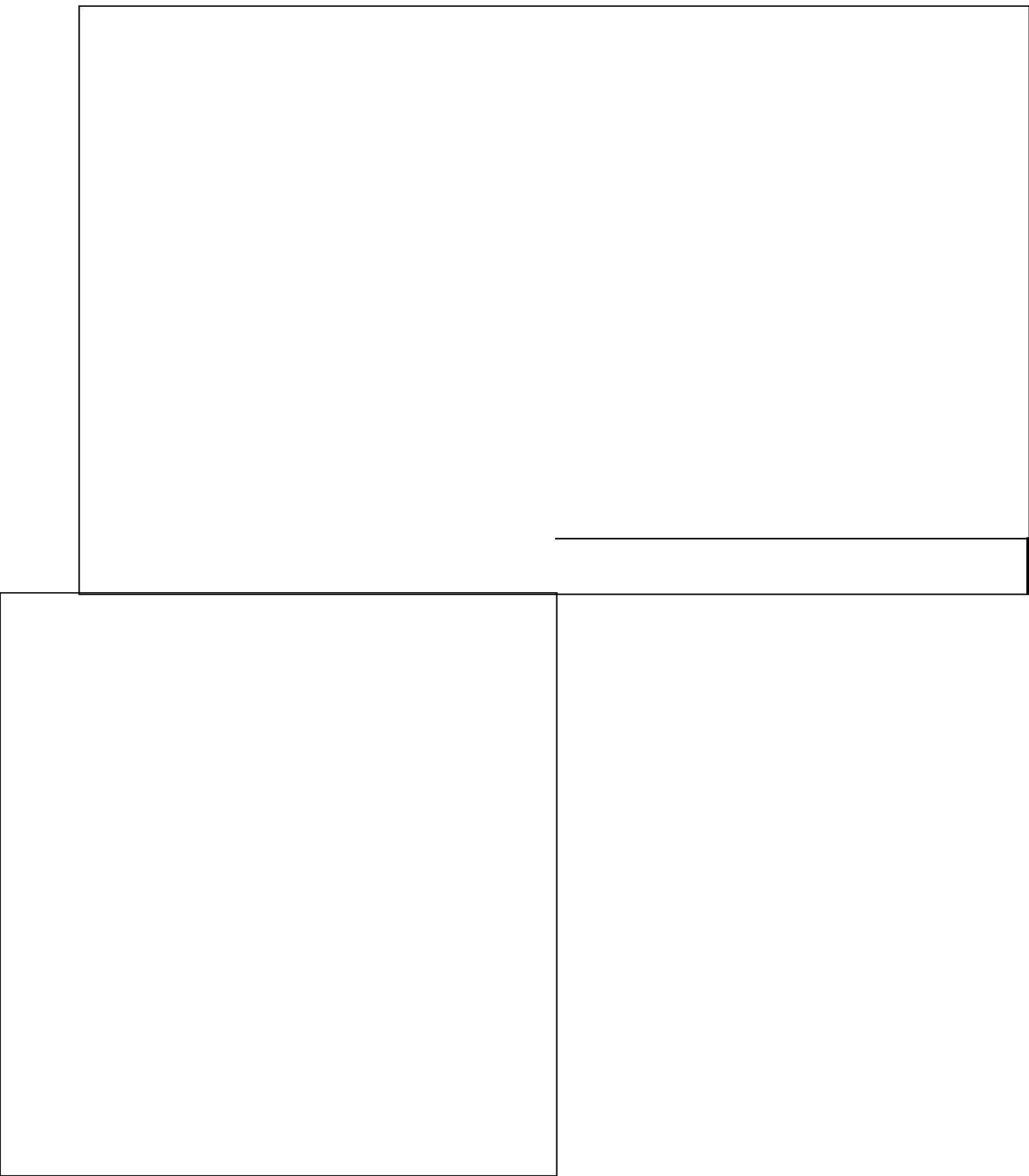
8YHU]`g.

H\]g`]g`hY`h`]fX`cZhfYy`hYghg`UbX`]bWl XYg`&\$`a i`hd`Y`Wxc]W`ei Ygh]cbg`"

: YYXVUW\_k ]`hU\_Y`hY`Zcfa`cZU`bi a Yf]WU`a Uf`UbX`cfU`Wca a Ybh`

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

7cj Yfg`WcbhYbhZfca`k YY\_g`, z-z`%\$`"H\Y`hYghk ]`Wcbg]ghcZ&\$`a i`hd`Y!`Wxc]W`ei Ygh]cbg`VUgYX`cb`hY`fYUX]b[ gZ`YVWl`fY`UbX`h`hcf]U`WcbhYbhfY`Yj`Ubhfc`hY`k YY\_g`VY]b[ `UggYggYX`"Mci`f`a Uf`\_k ]`VY`fY`YUgYX`Uddfcl`ja`UH`mcbY`k YY\_`UZfYf`cb`A`ccX`Y`"





F Y]gVXUi Yfz'9Xk ]b/ '7 fU][ ž5`VYfř'>UdUb. 'HfUX]h]cb`UbX`HfUbgZcfa Uh]cbž5`Yb/ 'i bk ]bž%- , -"

GWčhA cfrcbžK "ž>UdUb. 'řg'<]gřc fmUbX`7i`hi fyžBYk`Mcf\_žA W fUk`'<]'ž%- - ("

GřcřmžF ]WUfXž5`'<]gřc fmcZA cXYfb`>UdUbžDYb[ i ]bž%- , %"

HUb]žA ]mi a YžA mřžDfchYghUbX`Gřfi [ [ `Y`]'b`C\_]bUk Už@c bXcbžF ci hY[ Yž&\$\$\*"

Hčfa Ubž7 cbfUXž5`'<]gřc fmcZ'>UdUbžCI žcfx`UbX`A U`XYbžA Ug"ž6`UW\_k Y`Di V`]g\Yfž&\$\$\$"

K U`hU`ž5bbYž'>UdUb. '5`7i`hi fU`žGcV]U`žUbX`Dc`]'h]WU`'<]gřc řmž6cgrcb`UbX`BYk`Mcf\_`'<ci [ `hcb`UbX`A ]ZUb`7c"ž&\$\$\*"

K Ugk cž5bbžA cXYfb`>UdUbYgY`GcW]Ymž% \* , %- (žCI žcfx`UbX`BYk`Mcf\_žCI žcfx`I b]j Yfg]mDfYggž %- - \*"

K fUnž'<Uffm/`'7 cbfcmž'<]UfmfYXgłž'>UdUb`9I Ua ]bYX. `DYfgdYW]j Yg`cb`A cXYfb`>UdUbYgY`<]gřc řmž I b]j Yfg]mZ<Uk U]]`DfYggž%- , ' "

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

7ci fgYg`UFY`dYf]cX]W]`mifYj ]Yk YX`UbX`gh`XYbřg`ZYXVUW\_]g`i gYX`řc`'ja dfcj Y`hYa`": YYXVUW\_]g [ U`hYfYX`žca`'gh`XYbřg`i g]b[ `a mřI dYf]YbW`"'ř]g`YbVč`i fU[ YX`gh`XYbřg`Vč`a d`Yh`h`Y]f`gi`fj`Ymg`Vm UWW]gg]b[ `h`Y`dYfgcbU`]gYX`k`YV`]'b\_] ]U`h`Y`A`ccX`Y`Vč`i`fgY`g]h`Y"



Gi Va ]gg]cb 'cZ5ggYgga YbhiHUg\_g

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

Ʒmci 'YbWci bHYf'U'dfcV'Ya 'k \Yb'UH'Ya dh]b[ 'hc'gi Va ]hmc i f'Ugg][ ba YbhiH'fci [ \ 'Hi fb]h]bž'd'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'mYUfl" Ʒmci  
UfY'i bUV'Y'hc'gi Va ]hmc i f'Ugg][ ba YbhiXi Y'hc'U'Zi 'hk ]H'Hi fb]h]b'mci 'a UmUdd'm'Zc'f'Ub'YI HYbg]cbž'Vi hmc i  
a i ghfYHU]b'mci f'h]W\_Yhbi a VYf'Z'ca '9I HYfbU'Gi ddcfhfU'cb[ 'k ]H'UbmcH'Yf'fY'Yj UbhXcW a YbHg'k'hc  
]bWi XY'Ug'Yj ]XYbVW'hc'gi ddcfhmc i f'YI HYbg]cb'Udd'jW]h]cb" Ʒmci 'Ya U]'9I HYfbU'Gi ddcfhmc i 'k ]  
Ui 'ca UH]W]m'fYW]j Y'U'h]W\_Yhbi a VYfž'Vi h]Zmci 'HY'Yd\cbY'mci 'k ]'bYYX'hc'gdYW]Z]W]mUg\_ 'Zc'f'cbY"  
Hi fb]h]b'U'gc'dfcj ]XYg'i dXUH'g'cb'H'Y]f'gmgh'Ya 'ghU'hi g'cb'Hk ]HYf"

; YbYfU'mž'UggYgga YbhiHUg\_g'a i ghVY'gi Va ]HYX'Y'YW'fcb]W]m'j ]U'Y]H'Yf'Hi fb]h]b'cf'U'A ccX'Y  
Ugg][ ba YbH' 'b]bg]UbVW'g'k \YfY'H'g ]g'bc]hdccg]V'Yž'hk ]'VY'ghUH'X'cb'mci f'Wci fgY'g'A ccX'Y'g]H'k ]H  
U'HYfbUH] Y'gi Va ]gg]cb'XYHU]g"

: cf]bZ'fa 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 YbH'a ccX'Y

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

D`U[ ]Uf]ga `]g`i`g]b[ `h`Y`k`c`f`X`g`c`f`]X`Y`U`g`c`Z`c`h`Y`f`g`i`U`b`X`d`f`Y`g`Y`b`h]b[ `h`Y`a` `U`g`m`c`i`f`c`k`b``#W]b`h]U`\_`Y`a`U`b`m`  
Z`c`f`a`g`Z`Z`c`a` `X`Y`]V`Y`f`U`h`Y` `W`X`Y`U`h]b[ `h`c` `U`W`W`Y`X`Y`b`h]U`m`i`W`c`d`m]b[ `Z`c`a` `U`g`c`i`f`W`k`]h`c`i`h`U`W`\_`b`c`k` `Y`X[ `Y`a` `Y`b`h`

I`B`G`K` `[`f`c`i`d`g`d`U[ ]Uf]ga `]b`h`c` `h`Y` `Z`c` `c`k` ]b[ `W`U`h`Y`[ `c`f`]Y`g.



## 5 WUXYa ]WbZcfa Uh]cb

: cfYggYbh]U`gh XYbh]bZcfa Uh]cb`fY`Uh]b[ `tc.

- fYei Ygh]Zcf`YI hYbg]cb/
- `UhY`gi Va ]gg]cbg`[ i ]XY`]bYg/
- fYj ]Yk `cZa Uf\_g/
- I BGK `<YU`h`UbX`GUZY`midc`]WYg/
- YI Ua ]bUh]cb`dfcWYXi fYg/
- gdYW]U`Wcbg]XYfUh]cb`]b`hY`Yj YbhcZ]`bYgg`cf`a ]gUXj Ybh fY/
- gh XYbhYei ]mUbX`X]gUV`]m/
- UbX`c`hYf`YggYbh]U`UWUXYa ]W]bZcfa Uh]cbž`gYY