# HUMS1005

DYfgcbU`]gYX˙9b[˙`]g\˙@Ub[ i U[ Y˙9b\UbWḟa Ybh

HYfa ˙Hk c ˙˙##˙&$&%

# 7ci fgY Cj Yfj]Yk

## GhUZZ 7cbhUW 8YhU]`g

### 7cbj Ybcfg

| BUaY | 9aU]` | 5j U]`UV]`mm | @cWUh]cb | D\cbY |
|---|---|---|---|---|
| A]fU ?]a | a]fU"_]a 4 i bgk "YXi "Ui | K YXbYgXUm (!) da fj]U HYUa gŁ | F cca '&+( A cfj Yb '6fck b | $&-' , ) &', - |

### @YWi fYfg

| BUaY | 9aU]` | 5j U]`UV]`mm | @cWUh]cb | D\cbY |
|---|---|---|---|---|
| A]fU ?]a | a]fU"_]a 4 i bgk "YXi "Ui | K YXbYgXUm (!) da | F cca '&+( A cfj Yb '6fck b | $&-' , ) &', - |

### Hi hcfg

| BUaY | 9aU]` | 5j U]`UV]`mm | @cWUh]cb | D\cbY |
|---|---|---|---|---|
| A]fU ?]a | a]fU"_]a 4 i bgk "YXi "Ui | K YXbYgXUm (!) da | F cca '&+( A cfj Yb '6fck b | $&-' , ) &', - |
| >UWei Y`]bY 7cUb | ^"WcUb4 i bgk "YXi "Ui | 6m Uddc]bha Ybh j ]U Ya U]` | | |

## GW\cc` 7cbhUWh +bZcfa Uh]cb

GW\cc` cZ < i a Ub]h]Yg UbX @Ub[ i U[ Yg

@cWUh]cb. GW\cc` cZ ZZ]WY ž A cfj Yb '6fck b '6i ]`X]b[ ž@Yj Y` '&ž&),

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

D\cbY. Ž *%&-' , ) %*, %

: Ul . Ž *%&-' , ) ', +$)

9aU]`. \U`4 i bgk "YXi "Ui

7ci fgY 8YhU]`g

7fYX]h Dc]bhg `*`

Gi a a Ufm cZ h\Y 7ci fgY

H\]g Wci fgY k]`` \Y`d mci `hc Yb\UbWY mci f 9b[`]g\ `Ub[i U[Y g_]``g `Zmci `gdYU_ 9b[`]g\ Ug U`gYWcbX `Ub[i U[Y" 5XX]h]cbUž h\]g Wci fgY dfcj]XYg mci k]h\ h\Y g_]``g hc VY`Ub Ui hcbca ci g UbX ]bXYdYbXYbh `YUfbYf gc h\Uh mci W]b W]bh]bi Y hc Yb\UbWY mci f 9b[`]g\ `Ub[i U[Y g_]``g ]bh` h\Y Ztu fY hc UW\]YjY mci f UWUXYa ]W UbX dfcZ Ygg]cbU` [cU`g" Mci k]`` XYhYfa ]bY k\]W\ UgdYWhg cZmci f 9b[`]g\ mci k ci `X `]_Y hc ]a dfcj Y UbX h\Yb XYg][b UbX ]a d`Ya Ybh mci f ck b dYfgcbU` dfc ]WWih UWca d`]g\ mci f [cU`g"

7ci fgY @YUfb]b[ Ci hWca Yg

1. 5bU`mgY UbX ]XYbh]Zm dYfgcbU` `Ub[i U[Y bYYXg
2. 5dd`m hcc`g UbX fYgci fWYg `Zcf `Ub[i U[Y Yb\UbWa Ybh
3. 8Yg][b UbX WUffmci hU dYfgcbU` dfc [WUgYX cb h\Y UbU`mg]g cZ dYfgcbU` `Ub[i U[Y bYYXg
4. FYZ`WWhcb UbX UggYgg h\Y f ck b dfc[fYgg hc gi g hU]b dYfgcbU` UbX dfcZ Ygg]cbU` `Ub[i U[Y Yb\UbWa Ybh
5. 7ca a i b]WUhY Yf[]WU` dYfgcbU` YUfb]b[ ci hWca Yg k]h\ dYYfg

HYUW\]b[ GhfUhY[]Yg

<I A G%$$) \Y`dg ghi XYbhg hc hU_Y fYgdcbg]V]`]hm Zcf Yb\UbW]b[ h\Y]f 9b[`]g\ `Ub[i U[Y g_]``g Vm \Y`d]b[ h\Ya ]XYbh]Zm UbX UXXfYgg h\Y]f ck b ]bX]j]Xi U` bYYXg" H\]g ]g VYWUi gY ghi XYbhg Uh h\]g UXj UbWX ghU[Y cZ 9b[`]g\ `Ub[i U[Y UWui ]g]h]cb \Uj Y ]XZ YfYbh bYYXgž ghfYb[h\g UbX k YU_bYggYg" ]fa ]m UgY cb gc gc Wc! W `hi fU `Ufb]b[ h\Ycfmh\Uh Ufu i Yg h\Uh YUfbYfg Wcbghfi Wh h\Y f ck b YUfb]b[ h\fci [\ a YUb]b[ Z ]bhYfUWh]cbg fW"Z J m[ ch]g m %$-, *Ł žh\]g gY[Y]X]fW\UXYX Ui hcbca ci g 7ci fgY \Y`dg ghi XYbhg hc Yb\UbWY h\Y]f 9b[`]g\ g_]``g Vm ]fgh mUbU `mg]b[ h\Y]f ck b bYYXg/gYWcbX mXYj Y`cd]b[ dYfgcbU` dfc YWhg/h\]fX m ]a d`Ya Ybh]b[ h\Ya /Zci fh\ mYj U`i Uh]b[ h\Y]f ck b dfc[fYgg/UbX Z]bU` mfYZ YWh]b[ cb h\Y]f ck b `Ub[i U[Y" H\fci [\ci hh\Y 7ci fgYž ghi XYbhg k]`` VY [i ]XYX k ]h\ fY`Yj Ubh h\Ycfmž dfUWh]WU` gi [[Ygh]cbg UbX i gYZ` fYgci fWYg ]b Vch\ `YWhi fY UbX h hcfU` gYgg]cbg"

# 5ggYgga Ybh

5bmfYZYfYbWb[ gmghYa gi WX Ug 5D5 ]g UWWdhUVY ]b h ]g Wci fgY Ug cb[ Ug ]h]g Wcbg]ghYbhmUdd`YX. WXYW I B GK Gi ddcfhZcf FYZYfYbWb[ 5gg][ba Ybhg. \hdg.##ghi XYbhi bgk YXi Ui #FYZYfYbWb[ Ghi XYbhg WUb UWWYgg dfYj]ci g ghi XYbhgUa p`Yg cb C dYb@YUfb]b[.

## 5ggYgga Ybh HUg_g

| 5ggYgga YbhHUg_ | K Y][ \h | 8i Y 8UhY | Ghi XYbh@YUfb]b[ Ci hVca Yg 5ggYggYX | |
|---|---|---|---|---|
| DYfgcbU`dfc^ ‰o | | | ‰ ‰ | ‰o |
| | | | | |
| | | | | |
| | | | | |

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

H\Y `c[ Vcc_ UbX ´ci fbU` XcYg bch bYYX gi Va ]gg]cb /fUh\Yfž ]hk ]`` VY UggYggYX X]fYWhmcb h\Y Y!dcfh`zc]c h\Uhh\Y ghi XYbhWfYUhYg UbX g\UfYg k]h\ h\Y hYUW\Yfg"

Hi fb]h]b gYWh]cb[ . H\]g ]g bch U Hi fb]h]b Ugg][ ba Ybh

5ggYgga Ybh' . CfU` dfYgYbhUh]cb
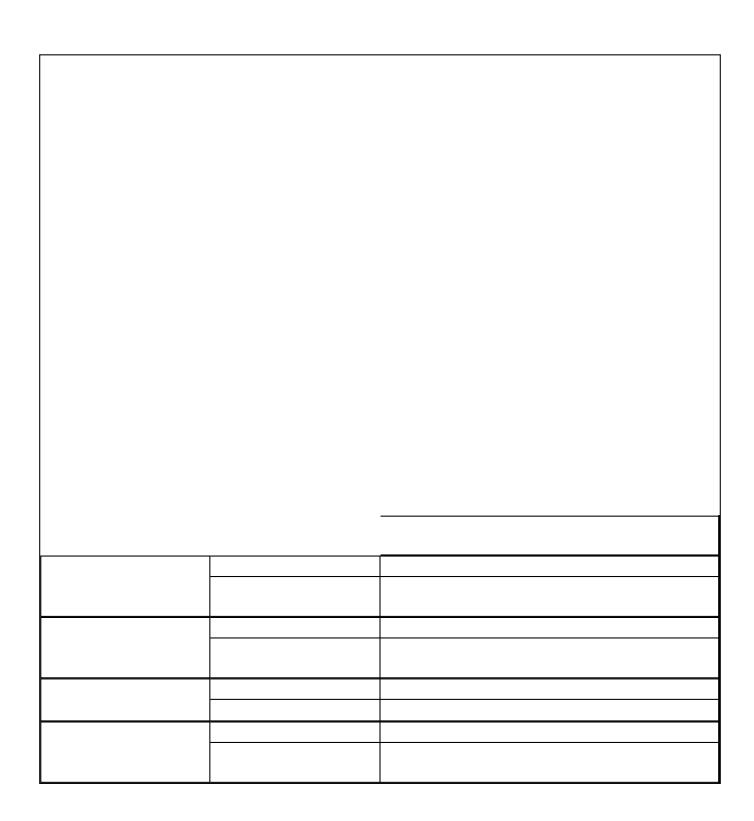
GHUfhXUhY. Bch 5dd`]WUV`Y

8YHU]`g.

Ghi XYbhg dfYgYbhh\Y]f `YUfb]b[ \][\][ \hg Zfca h\Y]f dfYfgcbU` dfcYWh\zcf UVci h %$ a ]bi hYg hc ]bgd]fY dYYfg hc Wcbh]bi Y hc Yb\UbWY h\Y]f `Ub[ iU[ Yg_]`g Yj Yb UZ\Yf Wca d`Yh]b[ h\Y Wci fgY. H\YmUfY fYei ]fYX hc gi Va ]hUb UVghfUWhfUVci h %) $ k cfXgŁUVci hk \Uhh\YmUfY [ c]b[ hc dfYgYbhU Wci d`YcZk YY_g VYZcfY h\Y dfYgYbhUh]cb XUm Ghi XYbhg fYWY]j Y f]hhYb ZYYXVUW_ Zfca h hcf cb UVghfUWhg f%ı ŁUbX Zfca dYYfg cb dfYgYbhUh]cb f%ı ŁVUgYX cb fi Vf]Wg"

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

H\Y UVghfUWh]g Xi Y cb Hi fb]h]b Vm- Ua A cbXUm &*>i `mfK YY_ - Ł H\Y dfYgYbhUh]cb ]g dYYf!UggYggYX UbX Xi Y ]b h\Y WUgg cZh\Y Ugh k YY_/ghi XYbhg k \ca ]gg h\Y ZbU WUgg k ]`a ]gg h\]g %$ UggYgga Ybh'

Hi fb]h]b gYWh]cb[ .

# F Ygci fWYg

## DfYgWf]VYX F Ygci fWYg

Ghi Xm]b[ b 9b[ ]g\. GhfUHY[ ]Yg Zcf Gi WWYgg ]b <][\Yf 9Xi WUh]cb f&$%+Ł

## F YWca a YbXYX F Ygci fWYg

6cc_ – 9ggYbh]U g cZ 9ggUm K f]h]b[. K \UhA Uf_Yfg @cc_ : cf f&$%+Ł

6cc_ – @YUfbYf 9b[ ]g\. 5 HYUWXYff]j; i ]XY hc +bhYfZfYbWY UbX C h\Yf DfcV Ya g f&$$%Ł

6cc_ – 7f]h]WU F YUX]b[ UbX K f]h]b[ ]b h\Y 8][]hU 5[Y. 5b +bhfcXi Wcfm 7ci fgYVcc_ f&$%*Ł

6cc_ – @cb[ a Ub; fUa a Uf cZ Gdc_Yb UbX K f]hhYb 9b[ ]g\ f%-(Ł

6cc_ – : cfY][ b @Ub[ i U[ Y @YUfb]b[ f%-,Ł

6cc_ – @YI ]WU +ggi Yg ]b @Ub[ i U[ Y @YUfb]b[ f%-)Ł

6cc_ – <ck @Ub[ i U[ Yg UfY @YUfbYX f&$$(Ł

6cc_ – ]j Y hU; c. HYUW]b[ Dfcbi bW]Uh]cb hc 5Xi hg f&$$-Ł

6cc_ – HYUW]b[ UbX F YgYUfW]b[ GdYU_]b[ f&$%+Ł

A cfY fYgci fWYg UfY fYWca a YbXYX cb @Y[Ubhc f]] U A ccXY Ł / C dYb@YUfb]b[

## 7ci fgY 9jU i Uh]cb UbX 8Yj Ycda Ybh

7ci fgYg UfY dYf]cX]WU m fYj ]Yk YX UbX ghi XYbhg' ZYYXVUW_ ]g i gYX hc ]a dfcj Y h\Ya ": YYXVUW_ ]g [ Uh\YfYX Zca ghi XYbhg i g]b[ a m9 IDYf]YbW" Ghi XYbhg UfY YbWci fU[ YX hc Wca d YhY h\Y]f gi fj Ymg Vm UWWYgg]b[ h\Y dYfgcbU gYX k YV ]b_ j U h\Y A ccX Y Wci fgY g]hY"

# Gi Va ]gg]cb cZ 5ggYgga Ybh HUg_g

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

=Zmci `YbWci bhYf`U`dfcV`Ya `k \Yb`Uh`Ya dh]b[ `hc`gi Va ]hmci f`Ugg][ba Ybh`h\fci [\`Hi fb]h]b`bž d`YUgY hY`Yd\cbY`9i hYfbU``Gi ddcfh`cb `-', ) `' ' ' %`cf`Ya U]`h\Ya `cb`Yl hYfbU`hY`gi ddcfh4 i bgk "YXi "Ui `" `Gi ddcfh \ci fg`UfY`', .\$\$Ua `–`%\$.\$\$da `cb`k YY_XUmg`UbX`-.\$\$Ua `–) .\$\$da `cb`k YY_YbXg`f1 *) `XUmg`U`mYUfŁ"=Zmci UfY`i bUV`Y`hc`gi Va ]hmci f`Ugg][ba Ybh`Xi Y`hc`U`Zi `h`]k ]h\`Hi fb]h]b`mci `a UmUdd`m`Zcf`Ub`Yl hYbg]cbž Vi h`mci a i ghfYHU]b`mci f`h]W_Yhbi a VYf`Zca `9i hYfbU``Gi ddcfh`Ua`cb[ `k ]h`Ubmci h\Yf`fY`Yj UbhXcW a YbhgŁ hc ]bWi XY`Ug`Yj ]XYbW`hc`gi ddcfh`mci f`Yl hYbg]cb`Udd`]WUh]cb"=Zmci `Ya U]`9i hYfbU``Gi ddcfh`mci `k ]` Ui hca Uh]W`mfYWj]jY`U`h]W_Yhbi a VYf`žVi h]Zmci `hY`Yd\cbY`mci `k ]`bYYX`hc`gdYW_WU``mUg_`Zcf`cbY" Hi fb]h]b`U`gc`dfcj]XYg`i dXUhYg`cb`h\Y`f`gmghYa `gh Ui g`cb`Hk ]hhYf"

; YbYfU`m žUggYgga Ybh`HUg_g`a i ghVY`gi Va ]hhYX`Y`YWfcb]WU``mž j ]U`]h\Yf`Hi fb]h]b`cf`U`A ccX`Y Ugg][ba Ybh`Ł ]bghUbW g`k \YfY`h]g`]g`bch`dcgg]V`Yž h]k ]``VY`ghUhYX`cb`mci f`Wci fgY'g`A ccX`Y`g]hY`k ]h\ U`hYfbUh]jY`gi Va ]gg]cb`XYhU]g"

: cf]b`Zcfa Uh]cb`cb`\ck `hc`gi Va ]h`Ugg][ba Ybhg`cb`]bYj]U`A ccX`Y. \hdg.##ghi XYbh]i bgk "YXi "Ui #\ck ! gi Va ]h`Ugg][ba Ybh`a ccX`Y

# 5WĆXYa ]W<cbYghmĭUbXˑD`U[ˑ]Uf]ga

D`U[ˑ]Uf]ga ˑ]gˑiˑg]b[ˑˑh\YˑkˑcfXgˑcfˑ]XYUgˑcZˑch\Yfgˑ UbXˑdfYgYbh]b[ˑˑh\Ya ˑUgˑmci fˑckˑb"ˑ‡WĆUbˑˑHU_Yˑaˑ Ubm Zˑcfaˑg žˑZˑcaˑ XYˑ]ˑVĆfĆHYˑˑWĆYĆUh]b[ˑˑhcˑUWĆ]XYbhU`ˑm W̆cdmˑ]b[ˑ Zˑca ˑU gˑcifˑWĆˑkˑ]h\ci tˑUWĆ_bckˑ`YX[ˑYaˑYbh"

I BGKˑ[fciˑdgˑd`U[ˑ]Uf]gaˑ]bhcˑh\Yˑ ž``ckˑ]b[ˑWŬHY[ˑcf]Yg.

7cdmˑ]b[ˑ.ˑiˑg]b[ˑˑh\YˑgUmˑYˑcfˑjYfmˑg]aˑ]Uf`kˑcfXgˑhcˑh\Yˑcf][ˑ]bU`ˑHYĆˑhˑcfˑ]XYUĆ`kˑ]h\ci tˑUWĆ_bckˑ`YX[ˑ]b[ˑh\Yˑ gci fWĆˑcfˑiˑg]b[ˑ`eiˑchŬt]cbˑ`aˑUf_g"ˑH\]gˑĄU`gcˑUdd`]Ygˑhcˑˑma U`Ygž̆UfĆUbXˑˑXYg][ˑbˑdfcʹWĆgž̆Ugˑk Yˑ``Ug dfYgYbhŬt]cbgˑkˑ\YfYˑgcaˑYcbYˑdfYgYbhgˑUbch\Yf̆gˑ]XYUgˑcfˑkˑcfXgˑ]h\ci tˑWĆfYXˑ]h"

‡bUddfcdf]UhYˑdUfUd\fUgˑ]b[ˑ.ˑ7ĆUb[ˑ]b[ˑˑUˑZĆkˑˑkˑcfXgˑUbXˑd\fUgYgˑkˑ]h̆ˑYmˑcghˑm]fHU`]b[ˑ]b[ˑˑh\Yˑcf][ˑ]bU` ghfiWĆthifYˑUbX#cfˑdfcˑ[ˑYggˑ]cbˑcZ̆]XYUgˑcZˑh\Yˑcf][ˑ]bU`žUbX̆]bĆcfa Uh]cbˑkˑ]h\ci tˑUWĆ_bckˑ`YX[ˑYa Ybh"ˑH\]gˑĄU`gc Udd`]Ygˑ]bˑdfYgYbhŬt]cbgˑkˑ\YfYˑcaYˑYˑdUfUd\fUgYgˑUbch\Yf̆gˑ]XYUgˑcfˑkˑcfXgˑ]h\ci tˑWĆfYXž̆hˑUbX̆hc d]WĆb[ˑˑhc[ˑYh\Yf̆ˑeiˑch\Ygˑ UbXˑdUfUd\fUgYgˑ]bhcˑUˑbYkˑˑk\c`Yžˑkˑ]h\ci tˑUddfcdf]UhYˑfYZ̆YfYbĆ]b[ˑ"

7cˑ̀ˑiˑg]cb.ˑkˑcf_]b[ˑˑkˑ]h̆ˑch\YfgˑVi tˑdUgg]b[ˑˑcZZ̆h\Yˑkˑcf_]UgˑUˑdUfgcb’gˑ]bXˑ]]̆XiˑU`ˑkˑcf_"ˑ7cˑ̀ˑiˑg]cbˑU gc ]bĆiˑXYgˑdfcˑjˑ]Xˑ]b[ˑˑmci fˑk cf_̆hcˑUbch\YfˑghˑiˑXYbh̆VYĆcfYˑh\Yˑ XiˑYˑXUh̆Yž̆cf̆Zˑcf̆h\Yˑˑdi fdcgYˑcZˑh\Ya d`U[ˑ]ğ]b[ˑˑUh̆UbmˑˑHa YžˑdUˑmˑ]b[ˑˑUbch\Yf̆dfYfgcˑhcˑXˑYˑZ̆caˑˑUb̆UWĆUXYa ]WĆUğžˑgh̀HUˑ]b[ˑˑcf̆UWĆi ]f]b[ˑ Ubch\Yf̆dfYfgcˑb’gˑUWĆUXYa ]WĆkˑcf_ˑUbXˑ̀Ć cdmˑ]b[ˑˑ]hž̆cZZ̆Yf̆hcˑˑWĆca d̆YˑYˑUbch\Yf̆dfYfgcˑb’gˑk cf_̆cf̆gYY_]b[ˑ dUmˑYbh̆ˑcf̆WĆca d̀HYˑ]b[ˑˑUˑWĆUXYa ]WĆkˑcf_"

‡bUddfcdf]UhYˑWĆHŬ]cb.ˑ7]b[ˑˑgci fWĆgˑkˑ]h̆ˑ\Uj̆YˑbchˑVYYĆb̆fYUXžˑ]h\ci tˑUWĆ_bckˑ`YX[ˑ]b[ˑˑh\Yˑ̋gˑYWĆbXUfm̒ gci fWĆˑˑZˑca ˑkˑ]h̆ˑ_bckˑ`YX[ˑYcZˑh\a ˑ̀Ugˑ̆YYĆb̆cVH]Ub̆YX"

8iˑd`]WĆh]cbˑˑfˑgˑYˑ̋Z̆d`U[ˑ]Uf]gaˑ̆.̆iˑğUa ˑ]hˑ]̆b[ˑˑmci fˑckˑb̆ˑkˑcfˑž̆b̆kˑˑ\c`Ćˑcfˑ̆b̆dUfhˑž̆k\YfY̆ˑ]h̆UgˑdfYj̆]ci gˑm VYYĆb̆dfYdUfYX̆cfˑgiˑVa ˑ]hhˑXˑ̋cf̆UbchˑYf̆UggYgga YbhˑcfˑWĆi fgˑUhˑI BGKˑˑcf̆Ubch\Yf̆iˑbˑ]jˑYfg]hm"

7cffYWĆHfˆY̆ZˆfYbWĆ]b[ˑˑdfUWĆ]WĆYg.

- DUfUd\fUgˑ]b[ˑž̆gˑia a ˑUf]g]b[ˑžˑYgguUm̆]fˑ]]ˆ]b[ˑˑ UbXˑhˑ]a Ya ˑUUU[ˑYa Ybh
- 5ddfcdf]UhYˑ̆iˑgˑYˑcZˆUbXˑˑUˆhhfˆVi hˆ]cbˑˆcfˑŬfˆUb[ˑYˆcˆZˆaˑUHYĆfˆU`ˑgˆ]bÓiˆXˆ]b[ˑˑhˆYˆIˑhˆž̆aˆUˑ Ygˆž̆cfaˆi ˆ`UˆYˆUbXˑ WĆbWĆdhg"

‡Xˆ]jˆ]UˆUˆggˆghUbWĆ̆ž̆gˆUj̆UˆˆUˆVˆYˆcbˆ̆fYuˆYˆghˆZˆcaˑ̆H\Yˆ@ˆUfˆbˆ]b[ˑˑˆ7ˆYbhfYˆˆfˆ\hˆhd.##kˆkˆkˆˑˑ̀`Wˆiˆbˆgˆkˆˑ̆YXˆiˑˑUiˆ#ĆˆŽ Ghiˆ XYbhgˑUfˆUˆgcˆˑfYˆˆa ˆ]bXYX̆h\Uh̆WĆHfY̆ˆ`ˆˆa ˆYˆaˆUbU[ˑYa Ybhˆgˆ]UbˆUa ˆdcfHUbhdUfhˆcfˆghˆĭXˆmˑUbXˆcbˆYˆcZˆh\Y ]XYbhˑ̋ÓYXˑWˆUi gˆYˆgˆˆcfˆd`U[ˑ]Uf]ga ˑ̆ˑ]gˑdccfˑ̋]a ˆYˆaˆUUU[ˑYa Ybh̆Ghiˆ XYbhgˆgˆˆ̀ci ˆˑÓ̀Uˆ̀ckˆˆgˆiˑ ˆˑfˆˆZˆˑ`ˆYbhhˆa ˆYˆˆˆcf fˆYgˆYUfWĆˑž̆XˆfˆUfˆhˆ]b[ˑˑˑˆUbXˑdfcdYfˆ̆fˆYZˆYfYbWĆˑ]b[ˑˑˆcZ̆gci fWĆgˑ̆]bˑdfˆYdUfˆ]b[ˑˑ Uˆ̀UggYggaˆa Ybh̆]h\Ya g"

I BGKˑˑ@ˆVˆfUfˆmˑŬgcˑˑ\UgˑˆˑhˑˆhˑˆY̆9@€ˆ9ˆˑ̆cˑcˑ̆UˆjˆU̒UˆˑVˆˑYˆˑhˑcˆˑUˆggˆ]ghˑˆmci ˑ̆kˆ̆]h\ˆˆmci ˑfˆˆghˑˆUˑyˆUhˆˑI BGKˑˑ"ˆ9@€ˆ9ˆ̆]g XYgˑ][ˑbYX̆ˑhcˑ̆]bhfcXˆi WĆˆ̆bYkˆˑˑghiˑ XYbhgˑhcˑ̆gˆ]hˆXˆmˑ]bˑ̆UhˆI BGKˑˑ Viˆ hˑˆhˆhˆWĆUb̆Ŭgc̆VˆY̆Uˑ[ˑ fYUhˑfYZˆYˆXˆifˆ̆]bˆ̆mci f