

ARTS2120

K f]h]b['Zcf'DYfZcfa UbW

GYa YghYf'Hk c''#'&\$%

7ci fgY 8YHJ] g

7 fYX]h'Dc]bhg'*

Gi a a UfmcZh\Y 7ci fgY

Gi VYWh5fYU. FZWSfdWS` V BWdAd_ S` UWE fgV[We H\]g:\Wbi fgY:\Wbi U`gc:\VY`ghi X]YX`]b:\h\Y:\Zc``ck]b[\cdot gdY\\JU`]gUh]cb. \displantiments d\NSf[h\WI \qff[`Y

H\]g`Wci fgY`YI d`cfYg`h\Y`k Umg`h\Uhk f]h]b[`dYfZcfa gžbcha YfY`mXYgWf]V]b[`h\Y`k cf`X`Vi hUWh]j Y`mfY! g\Ud]b[`]hž]b`h\Y`k Umj]hghfi Wf fYg`h\ci [\hžZYY`]b[žYbWci bhYfž'UbX`a Ya cfm';H\fci [\kYY_`m`YWfi fYgž [i]XYX`k cf_g\cdgž'UbX`fYUX]b[g`UbX`YI YfW]gYg`ci hg]XY`cZWUggž'mci `k]``YI d`cfY`U'j Uf]YhmcZh\YUhf]WU`UbX`dYfZcfa Uhjj Y`'a cXYg'''I `hja UhY`mh\YgY`k]``VY`X]fYWhYX`hck UfX`k f]h]b[`mci `k]``WfYUhY`Zcf`U'dYfZcfa YX g]h Uhjcb`—k\]W\`a UmVY`XY`]j YfYX``]j Y`VmU'dYfZcfa Yf`cf`dYfZcfa Yfg`]b`U'h\YUhfYžYbWci bhYfYX`VmU gYUhYX`cf`a cV]`Y`Ui X]YbWYžYI dYf]YbWYX`h\fci [\`a YX]U'gi W\`Ug`\YUXd\cbYg`cf`\mdYfhYI hz`cf`gca Y`ch\Yf Wca V]bUhjcb''6i h]b`Xc]b[`gc`k Y`k]```HU_Y`]bgd]fUhjcb'Zfca 'h\Y`k Um`Ub[i U[Y`k cf_g`U```Ufci bX`i gžk\Yh\Yf]b`h\Y`h\YUhfY`cf`VYmcbX''

5 hith Y'WcbWi g]cb'cZhh]g'Wci fgY'hhY'ghi XYbhik]``VY'UV`Y'hc

- %" FYU`]gY`h\Y`WfYUhJcb`cZU`k f]hhYb`dYfZcfa UbWY`hYI hih\UhifYgdcbXg`hc`gdYWJZJWdYfZcfa UbWY]bhYbhJcbgžZfUa YX`h\fci [\`Ub`Uk UfYbYgg`cZ]hg`WcbX]hJcbg`cZfYWYdhJcb`Vm'U`fYU``cf`dchYbhJU` Ui X]YbWY
- &" HYghiUbXiUggYggith\YifY`Uh]cbg\]diVYtk YYbith\YiZcfa icZUith\YUltf]\W\ith\I hiUbXi]hgiWcbhYbhž WcbhYl hi Ui]q]b[imci fik cf_i]bifY`Uh]cbihcich\Yfik f]hYfq
- ' "GY`YWiUbX`i Ij`]nY`Uddfcdf]UlY`fYgYUfW\!VUgYX`UddfcUW\Yg`lc`Wca dcg]ljcbU``a cXYg`Zfca `U`fUb[Y cZW ffYbhdfUW]\Wg
- ("5 Whj Y`miYa d`cmfYZYWhj Y`UbX`Wf]hjWU`j cWUVi `Ufmi]b`fYgdcbgYg`Ug`Wc``UVcfUhcfgž'dYfZcfa UbWY! a U_Yfgž'UbX`Ui X]YbWYg

HYUW]b['GhfUhY[]Yg'

 $H \setminus]g'Wc' fgY']g'HU' [\h'h fc' [\h'k YY_m'YW' fYgž'k \]W' k]```]bhfcXi WY'_Ym'WcbW' dhg'UbX'UddfcUV\'XYg'Ug'k Y`` fygž'k \]W' k]```]bhfcXi WY'_Ym'WcbW' dhg'UbX'UddfcUV\'XYg'Ug'k Y``$

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5ggYgga Ybh'hJg_	K Y][\h	8i Y'8UHY	Gh XYbh@YUfb]b[Ci hWca Yg 5ggYggYX
DfUWjWrdcftZc`]c'	&) ।	%&#\$-#&\$% `\$).\$\$`DA</td><td>' <u>Ž</u>(</td></tr><tr><td>7 f]h]WU`Ybei]fm</td><td>) \$1</td><td>\$&#%\$#&\$% `\$).\$\$`DA</td><td>&ž(</td></tr><tr><td>7 fYUhjj Y'k fjhjb['Zcf dYfZcfa UbVW'</td><td>&) ı</td><td>&*#%\$#&\$% `%%\$\$`DA</td><td>%ž&</td></tr></tbody></table>	

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8 YHU]`g. `GY`YWI]cb`cZ(`d]YWYg`cZk f]h]b[`Uddfcl "`) \$\$`k cfXg`YUW\"Gh XYbhg`k]```fYWY]j Y`k f]hhYb`ZYYXVUW_UbX`U`bi a Yf]\W\`[fUXY"

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

D`YUgY`gYY`Wci fgY`A ccX`Y`Zcf`UggYgga Ybh`]bZcfa Uh]cb"

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GHJfhXUhY.

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

D`YUgY`gYY`A ccX`Y`Zcf`XYHJ]`YX`UggYgga Ybh`]bZcfa Uh]cb"

 $\label{thm:limit} \begin{tabular}{ll} Hi fb]h]b gYhf]b[."H\]g"Ugg][ba Ybh]g"gi Va]hhYX"h\fci [\"Hi fb]h]b "UbX"gh XYbhg"Xc"bchgYY"Hi fb]h]b g]a]"Uf]hmfYdcfhg" \\ \end{tabular}$

5ggYgga Ybh' . 7fYUhjj Y k f]hjb[ZcfdYfZcfa UbWY

GHJfhXUhY.

8 YHJ]`g. ::]bU`'j Yfg]cb`cZWfYUHj Y`k f]hjb['Zcf'dYfZcfa UbW'`XYj Y`cdYX`]b`gYWcbX`\U`ZcZh\Y`a cXi `Yž'rc`VY dfYgYbhYX`Ug`hYl hža YX]Už\mdYfhYl hžcf``]j Y`dYfZcfa UbW''')!, 'a]bi hYg"'`H\]g`]g`h\Y`Z]bU``UggYgga YbhHUg_Zcf'UhYbXUbW'`di fdcgYg"Gh XYbhg`k]```fYWY]j Y`k f]hYb`ZYYXVUW_'UbX`U`bi a Yf]WU``[fUXY"

Hi fb]hjb gYhjb[. H\]g Ugg][ba Ybh]g gi Va]hhYX h\fci [\ Hi fb]hjb UbX gh XYbhg Xc bchgYY Hi fb]hjb

g]a]`Uf]hmifYdcfhg"

Gi Va]gg]cb cZ5ggYgga YbhHUg_g

Gh XYbhg UfY Yl dYWYX hc di hh\Y]f bUa Yg UbX gh XYbhbi a VYfg cb Yj YfmdU[Y cZh\Y]f Ugg][ba Ybhg"

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

#mci YbWci bhYf'U'dfcV'Ya k \Yb'UhYa dhJo['hc'gi Va]hmci f'Ugg][ba Ybhh\fci [\'Hi fb]h]bž'd'YUgY
hY'Yd\cbY'9l hYfbU'Gi ddcfhcb'-',) "''' %cf'Ya U]'h\Ya 'cb'<u>Yl hYfbU'hY'hgi ddcfh4 i bgk "YXi "Ui"</u>"'Gi ddcfh
\ci fg'UfY', .\$\$Ua '-'%\$.\$\$da 'cb'k YY_XUmg'UbX'-.\$\$Ua '-').\$\$da 'cb'k YY_YbXg'fl *) 'XUmg'U'mYUfŁ"'#mci
UfY'i bUV'Y'hc'gi Va]hmci f'Ugg][ba YbhXi Y'hc'U'ZJi 'hk]h\'Hi fb]h]b'mci 'a Um'Udd'mZcf'Ub'Yl hYbg]cbž'Vi hmci
a i ghfYhJ]b'mci f'h]W_Yhbi a VYf'Zfca '9l hYfbU''Gi ddcfhfU'cb['k]h\'Ubmch\Yf'fY'Yj UbhXcW a YbhgŁ'hc
]bWi XY'Ug'Yj]XYbW'hc'gi ddcfhmci f'Yl hYbg]cb'Udd']WUh]cb"'#mci 'Ya U]''9l hYfbU''Gi ddcfhmci 'k]''
Ui hca Uh]WU''mfYWf']j Y'U'h]W_Yhbi a VYfž'Vi h]Zmci 'hY'Yd\cbY'mci 'k]'''bYYX'hc'gdYW]ZWU''mUg_'Zcf'cbY"
Hi fb]h]b'U'gc'dfcj]XYg'i dXUhYg'cb'h\Y]f'gmghYa 'ghUh' g'cb'Hk]hYf"

; YbYfU``mž'UggYgga YbhitUg_g'a i ghVY'gi Va]hhYX'Y`YWfcb]WU``mj]U'Y]h\Yf'Hi fb]h]b'cf'U'A ccX`Y Ugg][ba Ybh'' =b']bghUbWfg'k \YfY'h\]g']g'bchdcgg]V`Yž']hk]```VY'ghUhYX'cb'mci f'Wci fgY'g'A ccX`Y'g]hY'k]h\U`hYfbUh]j Y'gi Va]gg]cb'XYhU]`g''

@UhY 5 ggYgga YbhDYbU`hJYg

- K cf_'gi Va]hh'X`%\$`hc`% 'XUmg`UZhYf`h\Y`gh]di `UhYX`XYUX`]bY`k]```VY`UggYggYX`UbX`ZYYXVUW_dfcj]XYX`Vi h'U`a Uf_'cZnYfc`k]```VY`fYWcfXYX"`\Zh\Y`k cf_'k ci `X`\Uj Y`fYWf]j YX`U'dUgg`a Uf_'Vi h'Zcf h\Y``UhYbYgg`UbX`h\Y`k cf_']g`U`Wca di `gcfm'Wci fgY`Wca dcbYbh'f\i fX`Y`fYei]fYa Ybh\z`U'gh XYbhk]``VY`XYYa YX`hc`\Uj Y`a Yhih\Uh'fYei]fYa Ybh\
- K cf_'gi Va]hhYX`&\$`cf`a cfY`XUmg`UZhYf`h\Y`gh]di `UhYX`XYUX`]bY`k]```bchVY`UWWdhYX`Zcf UggYgga YbhUbX`k]```fYWY]j Y`bc`ZYYXVUW_ža Uf_'cf`[fUXY"'=Zh\Y`UggYgga YbhHUg_']g`U`Wca di `gcfm Wca dcbYbhcZh\Y`Wci fgY`U'ghi XYbhik]```fYWY]j Y`Ub`l bgUh]gZJWcfmi: U]``fl : Ł'[fUXY`Ug`U`fYgi `hcZ i bgUh]gZJWcfmidYfZcfa UbWY`]b`Ub`YggYbh]U``Wca dcbYbhcZh\Y`Wci fgY"

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IBGK [fcidgdu[]Uf]ga]bhch\YZc``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'

⇒ Uddfcdf]UhY 'dUfUd\fUg]b[...7\Ub[]b['U'ZYk 'k cfXg'UbX'd\fUgYg'k \]'Y 'a cghmfYhJ]b]b['h\Y'cf][]bU` ghfi Wh fY 'UbX#cf'dfc[fYgg]cb'cZ]XYUg'cZh\Y'cf][]bU'žUbX']bZcfa Uh]cb'k]h\ci hUW_bck `YX[Ya Ybh'H\]g'U`gc Udd`]Yg']b'dfYgYbhUh]cbg'k \YfY'gca YcbY'dUfUd\fUgYg'Ubch\Yf'g']XYUg'cf'k cfXg'k]h\ci hWfYX]hUbX'hc d]YW]b['hc[Yh\Yf'ei chYg'UbX'dUfUd\fUgYg']bhc'U'bYk 'k \c`Yžk]h\ci hUddfcdf]UhY'fYZYfYbW]b["

 $7c^{i}$ g]cb. 'k cf_]b['k]th. 'cth. Yfg'Vi h'dUgg]b['c\Zth. Y'k cf_'Ug'U'dYfgcb'g']bX]j]Xi U''k cf_"'7c''i g]cb'U'gc

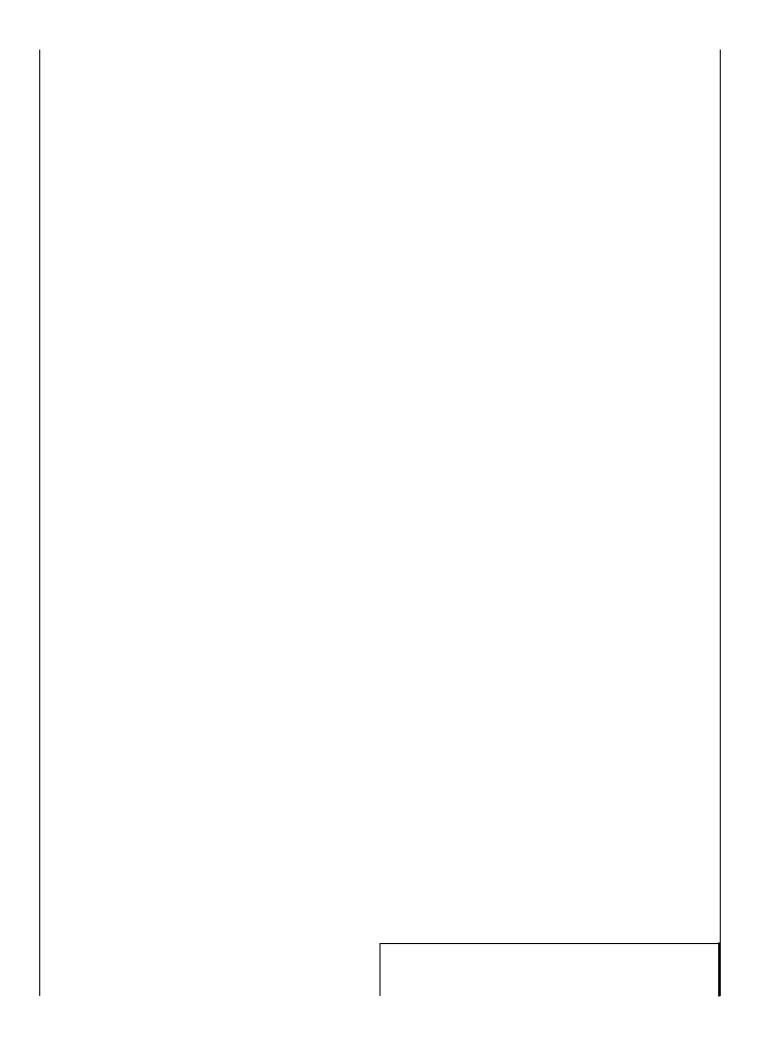
- i bXYfgfUbX mci f'f][\hg'UbX'fYgdcbg]V]`]hJYg'Ug'U'gh XYbhUhl BGK
- VY`Uk UfY`cZd`U[]Uf]ga ž`Wcdmf][\hz'l BGK `Gh XYbh7cXY`cZ7cbXi WhUbX`5VWWdhUV`Y`l gY`cZ I BGK `=\forall H`F Ygci f\W\g`Dc`]\m\m
- VY 'Uk UfY 'cZh\Y 'ghUbXUfXg 'cZVY\Uj]ci f'Yl dYWYX 'cZYj YfmcbY ']b 'h\Y 'l BGK 'Wca a i b]hm
- `cWUHY 'gYfj]WYg'UbX ']bZcfa UH]cb'UVci hI BGK 'UbX'I BGK '@]VfUfm

Gca Y'cZh\YgY'UfYUg'k]``VY'ZJa]`]Uf'hc'mci ž'ch\Yfg'k]``VY'bYk"'; U]b]b['U'gc`]X'i bXYfgHJbX]b['cZU``h\YfY`UhYX'UgdYWfg'cZ9@ ${\mathfrak G}$ 9'k]``\Y`d'mci 'a U_Y'h\Y'a cghicZmci f'ghi X]Yg'UhI BGK "f\hd.#gi V\YWfi \\X\yg''\YfUfm'i bgk\\"YXi\\"Ui\#\`\]qY\#JVci \\Y\\]qY\\

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K YY_`*.`&+`5i [i gh!`& GYdhYa VYf	GYa]bUf	K YY_'*'pi5ZZYWfgž': YY`]b[gž'9bYf[Yh]Wgž 8mbUa]Wg
		H\]g`k YY_k Y`Wcbg]XYf`\ck `'UZZYWfz`Ug`h\Y`gYbgcfmcf'`ZY`h`fY[]ghYfcZfY`Uh]cbg`fVYk YYb`h\]b[gz¨dYcd`YUbX`h\Y`gY`Ze`]g`h\YUhf]WU``mWcaai b]WUhYX"`K Y``cc_UhfY`Uh]cbg\]dg`—cf`XmbUa]Wg`—'YghUV`]g\YXVYk YYb`W\UfUWYfgž`Ug`k Y```Ug`\ck `fY`Uh]cbg\]dgVYk YYb`dYfZcfaYfg`UbX`gdYWfUhcfg`UfY`Wcbg]XYfYXUWfcgg`U`fUb[Y`cZYIUad`Yg"`K Y`Wcbg]XYf hYfa]bc`c[migYX`]b`WUgg]WU`d`Umkf]h]b[`giW\`UggiVHYIh'IbX`fWYUhfcZh\Y`hYIh'
K YY_'+.'' 'GYdhYa VYf'!'- GYdhYa VYf	GYa]bUf	K YY_'+'pA mh\gž'Ghcf]Ygž'Ghfi Whi fYgž
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K YY_', .'%\$'GYdhYa VYf'! %*'GYdhYa VYf	GYa]bUf	K YY_`, `pK f]h]b[`k]h\`Ch\Yfg H\]g`k YY_`k Y`YI d`cfY`h\Y`bUh fY`cZWc``YWf] Y`UbX
		We``UvcfUhjy'kf]hjb["'Mci 'UfY']bj]hYx'hc'xYjY`cd' YId`cfY'\ck'bchjcbg'cZkf]hjb['hc[Yh\Yf'a][\h YIdUbx'cf'YId`cxY'k\Uh'mci '\UjY'VYYb'kcf_]b['cb gc'ZUf"
		6f]b['hc'WUgg'-'U'gYbhYbW'cf'gYf]Yg'cZgYbhYbW'gż hmdYX'UbX'W hi dž'Zfca 'U'Zci bX'gci fW'h\Uh]g a YUb]b[Z\`hc'mci ']b'gca Y'k UmfXc'bchfYj YU`h\Y gci fWYŁ/Ub'UbWJYbhcV'YWhfk \UhYj Yf'h\Uha YUbg'Zcf mci '-'h\Y'cV'YWha i ghVY'HUb[]V`Yž'HUWJYž'\c`XUV`Yž YhWŁ/U'ga Y``fgUZY'Zcf'ch\Yfg'hc'hmŁ/U'HUghY'fgUZY'Zcf ch\Yfg'hc'hfmŁ/Ubm]a U[Yg'h\Uh\Uj Y'VYYb'W'h# df]bhYX'Zfca 'd\chcgž'Vcc_gž'UfhžYhW'GY`YWh

		a UhYf]U`g`h\UhigdYU_`hc`mci 'Ya ch]cbU``mž]bhY``YWn U``micf'dc`]h]WU``m"
K YY_''%+'GYdhYa VYf'! &' 'GYdhYa VYf	GYa]bUf	K YY pK cf_g\cd XYj Y`cda Ybh%! ZcW g`cb j c]WY
		H\]g'k YY_'k Y'fYj]Yk 'h\Y'XYj Y`cda YbhcZmci f'k cf_]b'dfc[fYgg'Ufci bX'h\Y'bch]cb'cZfjic]WYf'iMci 'WUb W\ccgY'hc'Vf]b[']b'U'gYWf]cb'Zcf'Wc``UVcfUh]j Y XfUa Uhi f[m''Hc[Yh\Yfzk Y'a Um`cc_'VUW_cj Yf'_Ym]XYUg']b'gY`YWhfYUX]b[g'cf'k cf_g'k Y'\Uj Y dfYj]ci g`m'X]gW ggYX"
		K \Uhi]g'h\Y''jc]WY'cZh\Y'd]YWY3'K \Uh'jc]WYg'XcYg]hUggYa V`Y3'8c'h\Ymkcf_'X]U`c[]WU``m8 Dc`mjcWU``m3' = hYbg]cb'cf'WcbhfUX]Wf]cb3' <ck']g'h\y bch]cb'cZjc]WY'igYZ ``Zcf'mcif'kcf_'Ug'mci ibXYfgHUbX']hhc'XUhY3</ck']g'h\y
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		K \UhXf]j]b['UfWdi ``g'cf'X]fYWg'cf'Yb[U[Yg'cf gYXi Wg'gdYWUhcfg'h\fci [\h\Y'k cf_3'K \Uh]g'h\Y WbhfU`'UW]cb'cZh\Y'k cf_3'K \Uhf\mh\a 'i bXYfd]bg h\]g'ghfi Wi fY3'K \Uhcf[Ub]gUh]cbU```c[]W[i]XYg'h\Y ghfi Wi fY'ffYd]gcX]W3'H\fYY!UW3'G]b[i `Uf'Xi fUh]cb3 7 `]a UI 3'5bh]!W]a UI 3'F YdYh]h]cb3'K \Uh W\fcbc`c[m3'K \UhXcYg'h\Y'ghfi Wi fY']bj]hY Ui X]YbW'g'hc'YI dYWicf'YI dYf]YbW''UbX'XcYg']h fYU`]gY'h\]g'dfca]gY'cf'W]fW'a j

		<u> </u>
K YY_'‱.'%) 'C WocVYf'! &%'C WocVYf	GYa]bUf	K YY_`‰pK cf_g\cd XYj Y`cda Ybh∋ ! ZcW g cb gmbh\Yg]g
		H\]g`k YY_k Y`W&bg]XYf`h\Y`XYj Y`cda YbhcZmci f k cf_'Zfca 'h\Y`dYfgdYWfj Y`cZh\Y`fk \c`Yfi`\ck 'XcYg]h`gmbh\Yg]gY`Y`Ya Ybhg3' <ck 'xc`y`ya="" ybhg`czh]a="" yž<br="">j c]\W`žgdUW\žghcfmž\VcXm\W&a Y`hc[Yh\Yf`hc`a U_Y`]h U`hchU``k cf_3`=g`h\YfY`hcc`a i W\`cZcbY`h\]b[3`=g gca Yh\]b[`a]gg]b[3</ck>
K YY_'% .'&&'CWoVYf'! &, 'CWoVYf	GYa]bUf	K YY_'% 'p'A cbXUm'&&'C Whip'DYfZcfa UbW'fYUX]b[g 7`Ugg'h\]g'k YY_']g'gW\YXi `YX'cb'A cbXUm`UhY UZhYfbccb#YUf'mYj Yb]b["'9I UWhiha Yg'H67"'D`YUgY a U_Y'ha Y'Uj U]'UV'Y'bck 'Zcf'h\]g'hc'\UddYb"'K Y'k]`` dUfrjWjdUhY']b'U'j c'i bhUfmUbX'Wc``YWhj Y'fYUX]b[gYgg]cb'cZci f'k cf_g!]b!dfc[fYgg'hc'XUhY"
		B6. H\YfY`k]``VY`bc`H\i fgXUmWUgg`h\]g`k YY_"

FYgci fW/g

DfYgWf]VYX F Ygci fWYg

FYWWaaaabXbbXkfXgEiYfgncgifWYg

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

Mci f´ZYYXVUW_`]g´U`k Umg´]a dcftUbhitc`th\Y`cb[c]b[`XYj Y`cda YbhcZth\]g`Wci fgY'`H\]g`Wci fgY`]g`VY]b[`fi b Vm6fmcb]`HfYn]gY`Zcf`th\Y`Z]fght]a Y"`6fmcb]`Wcbg]XYfg`]bZcfa U``f]Y`j]U`X]gW gg]cb`]b`WUggž`cf`Yj Yb`j]U`th\Y Ugg][ba Ybhg`mci `gi Va]tL`Ug`k Y```Ug`Zcfa U``f]Y`j]U`A m9I dYf]YbWYLZYYXVUW_`YggYbt]U``fc`th\Y`Z fi fY``]ZY`cZ