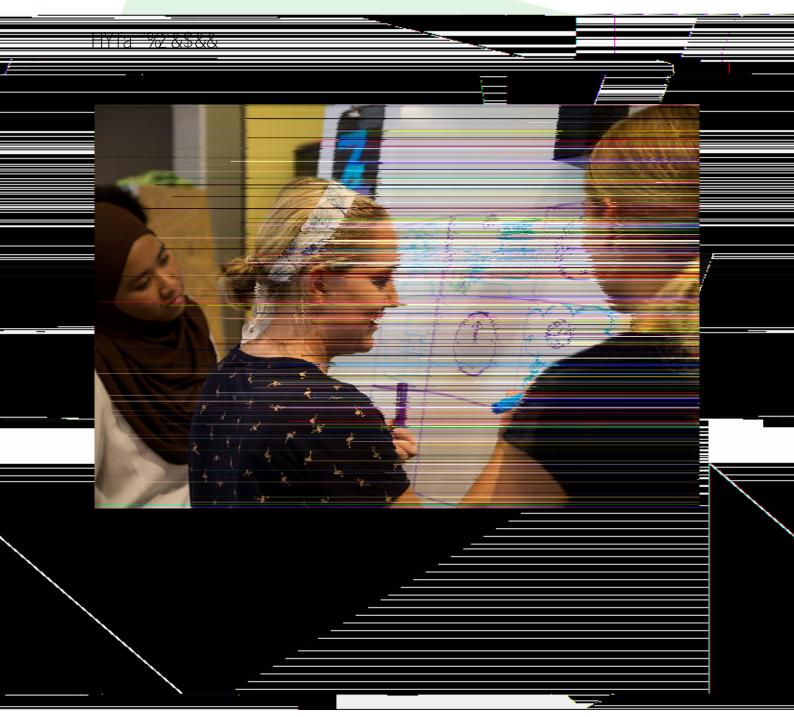


GSOE9011

9b[]bYYf]b['Dcgh[fUXi UhY'7ci fgYk cf_FYgYUfWk'G_]``g



7ci fgY[·]Cj Yfj]Yk

GhJZZ 7 cbhJWh 8 YhJ] g

7cbj Ybcfg

B Ua Y	9a U]`	5j U]`UV]`]m	@cWUhjcb	D\cbY
>]Ub[HJC L i	<u>"li 4 i bgk "YXi "Ui</u>	U```k cf_]b['h]a Y	9%\$ž' %-	Ž*%(&&),)

GWXcc`7cbHJWhi±bZcfa Uh]cb

7ci fgY 8YHJ] g

I b]hg cZ7fYX]h**

Gi a a UfmcZh\Y 7ci fgY

 $H\g''Wci\ fgY'']g'U'X]gHUbW''j\ Yfg]cb'cZh\Y'ZJWY!hc!ZJWY'XY']j\ Yfm;\ GC9-\$\%'Wci\ fgY'UbX']g'XYg][\ bYX'hcXYj\ Y`cd'fYgYUfW.'UbX'Wcaaib]WUh]cb'g_]``g'UbX'ghfUhY[\]Yg'h\Uhk ci`X'gi\ ddcfhfYgYUfW.'UgdYWg'cZh\Ygh Ybhgfia UghYfg'dfc[\ fUa"'H\Y'Wci\ fgY'k\]```hJ_Y'U'Z]ddYX'WUggfcca''UddfcUW.'k\]h\'hcd]Wg'Wcj\YfYX\]bWi\X]b[$

@YUfb]b['Ci hWca Y	95 GHJ[Y %7 ca dYHYbW]Yg
) "'Wcbg]XYf'Wc``YWf]cb'UbX'UbU`mg]g'cZYldYf]a YbHU`'fYgi `hg'UbX'h\Y Zcfa i `Uh]cb'cZj U`]X'WcbWi g]cbg	D9&"&
*"'Wcaaib]WUhY'fYgYUfW\'dfcdcgU`g'YZZYW¶jY`mž']b'cfU`'UbX'kf]hhYbacXYg	D9' "&
+"`k cf_`YZZYWfj Y`m`]b`U`fYgYUfW\`HYUa	D9' "*
, "'XYj Y`cd'U'dfY`]a]bUfmifYgYUfWX'dfcZjY'UbX'XYg][b'Ub'YZZYWfj Y fYgi a Y	D9' ")
- "'dfUWJVY'fYgYUfW\'Yh\]WU`m	D9' "%

HYUWX]b[GhfUhY[]Yg

Ghi XYbhl WrbhfYX`UWfjj]h]YgʻZcfa 'h\Y`VUg]gʻcZh\Y`Wci fgYž'k\]W\`k]```XfUk 'cb`h\Y`X]j Yfg]hmcZh\Y`ghi XYbh Wc\cfhž]bWi X]b['df]cf`YXi WUh]cbU`ždfcZygg]cbU``cf`[YbYfU``_bck `YX[Y`cZh\Y`ghi XYbhgž'UbX`U``ck Yb[U[Ya Ybh]b`fY`Yj Ubh'UbX`W\U``Yb[]b['YI dYf]YbWrg"'H\Y`WUggYg`UfY`XYg][bYX`hc`VY`gi ddcfh]j Y`UbX Zf]YbX`mž'UbX`]bWi XY`a YUb]b[Zi ``fYU`]gh]W`YUfb]b[`UbX`UggYgga Ybh'hUg_gž'Ugʻk Y```Ugʻdfca chY]bXYdYbXYbh'UbX`Wc``UVcfUh]j Y`ghi XmUbX`Ybei]fm"

HYUWX]b['glfUhY[]Yg'i gYX'Xi f]b['h\Y'Wci fgY'k]```]bWi XY.

ga U```[fci d``YUfb]b[ž'UbX'hYUa !VUgYX'UggYgga YbhiHug_gž'hc'Z fh\Yf'Xf]j Y'i bXYfgHubX]b['cZh\Y]a dcfhUbW' cZhYUa k cf_']b'Ub'Yb[]bYYf]b['WcbhYl hz'hc'XYa cbghfUhY'h\Y'i gY'cZUddfcdf]UhY Wc``UVcfUh]cb'hc'UXXfYgg'fYgYUfW\(CU'gz')b'Ub']bWfYUg]b[`m[`cVU`'dfcZYgg]cbU`'Ybj]fcba YbhY

5ggYgga Ybh

5ggYgga YbhhUg_	K Y][\h	8iY'8UhY	7 ci fgY`@YUfb]b[Ci hWca Ygʻ5ggYggYX	
%"·7 cbff]Vi fj		‰	‰ ‰	‰

Wcbg]XYfYX'a YUb]b[Zi `/mci 'a Um`cgY'a Uf_g'Zcf'h\]g'UggYgga Ybh'hUg_']Z'h\YfY']g'Yj]XYbWY'h\Uh mci '\Uj Y'bchYb[U[YX'k]h\ 'h\Y'Wci fqY'WcbhYbh'

5ggYgga Ybh' . '7J '8Yj Y`cda Ybh

GHJfhXUhY. &, #\$&#&\$&& %& \$\$ 5A 5ggYgga Ybh`Yb[h\. &dU[Yg 8i Y`XUhY. \$%#\$(#&\$&& %%) - DA

9 UWX 'gh XYbhk]```dfYdUfY 'UbX'gi Va]hU'7 J "': i fh\Yf`XYhJ]``cZh\]g`UggYgga YbhhUg_']g`dfcj]XYX`]b`UgYdUfUhY`XcW a Ybh]b`A ccX`Y"

•

H\]g^]g^bch'U^Hi fb]h]b^Ugg][ba Ybh

5ggYgga Ybh'Wf]hYf]U

H\Y`Zc``ck]b['a Uf_]b['fi Vf]W\Ug`VYYb`Wca d]`YX`VUgYX`cb`gYj YfU``di V`]g\YX`fi Vf]Wg`hc`UggYgg`7 J g`UbX U`][bg`k]h\ h\Y`[i]XY`]bYg`dfcj]XYX`Vml BGK '7 UfYYfg`UbX`9a d`cma Ybh''H\Y`7 J ']g`bchUggYggYX`cb`h\Y `Yj Y``cZdfcZYgg]cbU``Yl dYf]YbWY`\Y`X`Vmh\Y`gh XYbhžVi hVmh\Y`Zcfa Uh'UbX`WcbhYbhcZh\Y`7 J 'UggYggYX i q]b['h\Y`fi Vf]WVY`ck "

.

5ggYgga Ybh(. F YgYUfW DfcdcgU`

GHJfhXUHY. %(#\$&#&\$&&\$, .\$\$ 5A 8i Y XUHY. &-#\$(#&\$&&*%) - DA

 $\label{thm:conditional} $$HY'FYgYUfW. DfcdcgU`]g'hY'a U]b'UggYgga Ybh'HUg_']b'hY'Wci fgY'''Hc'Wca d'YhY'h\]g'Ugg][ba Ybhz'mci k]``VY'Ugg][bYX'hc'U'fWS_'cZ('hc'*'ghi XYbhgz'bc'a cfY'cf'`Yggz'Uh`YUghhc'VY[]b'k]h\'''9UW\'hYUa'k]`` gi Va]h'h\fYY'XY']] YfUV'Yg.$

- %" F YgYUfW\"E i Ygh]cb. "HYUa g'gi Va]hh\Y]f'XfUZhfYgYUfW\"ei Ygh]cb "UbX'h\Y'9b[]bYYf]b['F YgYUfW\ 7\U``Yb[Y'h\Y]f'hcd]WVYgha UhW\Yg"'fZcfa Uh]j Y#gi a a Uh]j YŁ
- &" 8 fUZnF YgYUfW. DfcdcgU". YbWca dUgg]b['th\Y'"]hYfUhi fY'fYj]Yk 'UbX'WYfhU]b'ch\Yf'gYW]cbg" fZcfa Uhj Y#qi a a Uhj YŁ
- ' " @YYffYj]Yk cZXfUZndfcdcgU`Q
- $(":]bU``FYgYUfWX`DfcdcgU`.`WcjYf]b[``U```gYWf]cbg']bWiX]b[``th\Y`aYth\cXc`c[mUbX`gWXYXi``Y"`f&) a Uf_qŁ$
-) " @YYf fYj]Yk cZhYUa a Ya VYfgQ

Gi Va]gg]cb`cZfVŁk]```]bWi XY`dYYf`fYj]Yk `cZh\Y`XfUZnfYgYUfW\`dfcdcgU``gi Va]gg]cb`fWŁž'UbX`gi Va]gg]cb cZfXŁk]```]bWi XY`Ub`Ubcbma ci g`hYUa k cf_'Yj U`i Uh]cb`fYŁ"

DYYf'fYj]Yk ']g'Ub']a dcffUbridUfficZfYgYUfW.'UbX'[YbYfU`'dfcZfyg]cbU`'dfUWf)Wfz'Ug'k Y``'Ug'Ub'UWf]j Y 'YUfb]b['dfcWfyg"'Gfi XYbfy'k]``']bX]j]Xi U``mYj U`i UhY'h\Y'ffV£XfUZhfYgYUfW.'dfcdcgU`g'cZh\Y]f'dYYfgz'n gh Ug'\UddYbg'k]h\'fYU`'fYgYUfW.'dfc^YWg"'Nci 'k]``'U`gc'Yj U`i UhY'h\Y'dYfZcfa UbW''cZmci f'hYUa 'a Ya VYfg']b Wca d`Yh]b['h\Y':]bU`'F YgYUfW.'DfcdcgU`'hUg_"'A Uf_g'k]``'VY'Uk UfXYX'hc'mci 'Zcf'dfcj]g]cb'cZZU]f'UbX Wcbglfi Wf]j Y`mWf]h\W'`fYj]Yk g"'DYbU'h}Yg'a UmVY']a dcgYX'Zcf'dccf'dYfZcfa UbW'']b'hYUa k cf_z'VUgYX'cb

dYYf'Yj U'i Uhjcb"

: i fh\Yf`XYHJ]`cZh\]g`UggYgga YbhHJg_`UbX`]hg`Wca dcbYbhg`]g`dfcj]XYX`]b`U`gYdUfUhY`XcW a Ybh]b`A ccX`Y"

5ggYgga Ybh'Wf]hYf]U

A Uf_]b['fi Vf]Wg'Zcf'h\Y'j Uf]ci g'dUffg'cZh\]g'UggYgga Ybh'UfY'[]j Yb'cb'h\Y'Zc``ck]b['dU[Yg"'BchY'h\Uh h\YgY'UfY'dfcj]XYX'Ug'U'[i]XY'hc'Wf]hYf]U'UbX'gH\bXUfXg'h\Uh'\Y`d'mci 'dfcXi WY'Ub'Uddfcdf]UhY'd]YWY'cZ k cf_"'A Uf_]b['HU_Yg'h\YgY'hc'Wcbg]XYfUh]cb'UbX'h\YmUfY'Udd`]YXž'Vi h'hmd]WU``m'U'f]W\'UggYgga Ybh'HUg_]g a Uf_YX'\c`]gh]WU``m'UbX'k]h\'ei U`]hUh]j Y'ZYYXVUW_ž'k \]'Y'HU_]b['U``'Wf]hYf]U']bhc'UW\ci bh''Hmd]\WJ``m]h]g'bch Uhca]gh]WUbX'bch'U'g]a d'Y'gi a 'cZa Uf_g'Zcf'dUffg"

A Uf_]b[fi Vf]WZcfFYgYUfWXEiYgh]cb

7 f]hYf]U fUbX`k Y][\h]b[Ł	8YgWf]dh]cb	A Uf_]b[
EiYgh]cb fl/sl Ł		Bc'f\$Ł Myg'f\$") Ł
GWcdY f%\$i Ł	7 Ub h\Y F YgYUfW\ E i Ygh]cb VY Ubgk YfYX fYUgcbUV m h\fci [\'U'&!a cbh\']bXi ghfmcf'i b]j Yfg]hmfYgYUfW\ dfc^YWB	Bc"f\$Ł Myg"f\$") Ł
; Ud f(\$ı Ł	<u> </u>	l bgUhjgZJVVcfmf\$Ł GUhjgZJVVcfmfVdŁ CihghUbX]b[f&L
<mdch\yg]g f(\$ı Ł</mdch\yg]g 	8 c Y g 'h Y 'F Y g Y U f W 'E i Y g h j c b 'f Y e i] f Y 'h Y 'X Y j Y 'c da Y b h U b X h Y g h j b ['c Z h Y c f] Y g 'h U h W U b 'd f Y X] W h c f 'Y I d 'U] b 'b U h f U 'd Y b c a Y b U 'c f 'h Y 'd Y f Z c f a U b W 'c Z g n g h Y a g 3	I bgUhjgZJVWcfmf\$Ł GUhjgZJVWcfmfVL CihghUbX]b[f&L

5ggYgga Ybh). J]XYc dfYgYbhJh]cb

GHJfhXUHY. '%/#\$(#&\$&&'\$, .\$\$'5A 8i Y'XUHY. '\$*#\$)#&\$&&'%%) - 'DA

9UWX 'ghi XYbhik]```gi Va]hiU'' !a]bi hY'j]XYc'dfYgYbhUh]cb'fUb''Y'Yj Uhcf''d]hWX\z\vert\vert VUgYX'cb'h\Y]f'hYUa'g fYgYUfWX'dfcdcgU'''

: i fh\Yf`XYHJ]`cZh\]g`UggYgga Ybh'HJg_`]g`dfcj]XYX`]b`U`gYdUfUhY`XcW a Ybh]b`A ccX`Y"

H\]g^]g^bch'U^Hi fb]h]b^Ugg][ba Ybh

5ggYgga Ybh'Wf]hYf]U

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5 http://bxubww.F.Yei]fYa Ybhg

 $\hbox{Ghi XYbhg'UfY'ghfcb[`m'YbWc'i fU[YX'hc'UhhYbX'U```WUggYg'UbX'fYj]Yk'``YWhfY'fYWcfX]b[g''' } \\$

FYgci fWYg

DfYgWf]VYX F Ygci fWYg

5```YUfb]b['a UhYf]U`g`UfY`cb`]bY`]b`A ccX`Y"

Gi Va]gg]cb cZ5ggYgga YbhHUg_g

 $\label{thm:condition} K\ cf_'gi\ Va\]h\ ci\ h\ Ub'\ Uddfcj\ YX'YI\ h\ bg]cb'\ Vmh\ Y'\ Wci\ fgY'\ WcfX]b\ Ub'\ Cf'XY'Y[\ Uh'\ X'Ui\ h\ cf]hm]g gi\ V'\ Y'\ M'b\ h' Cf'\ h\ Uh'\ Ugg\ Ygga\ Ybh']h\ a\ z d\ Y'\ Wb'\ Yb\ XUf'\ XUm'$

 $\label{thm:condition} $$HY^`UhY`dYbU`hm]g`Udd`]YX`dYf`WUYbXUf`XUmf]bWi X]b[`k YY_YbXg`UbX`di V`]W\c`]XUmgŁ'h\UhhY`UggYgga Ybh]g`cj YfXi Y"`H\YfY`]g`bc`dfc!fUhU`cZh\Y``UhY`dYbU`hmZcf`gi Va]gg]cbg`a UXY`dUfhk Umh\fci [\'UXUm'`H\]g`]g`Zcf`U```UggYgga Ybhg`k \YfY`U`dYbU`hmUdd`]Yg"$

K cf_'gi Va]hhYX'UZhYf'Zjj Y'XUmg'fl\&\\$'\ci fg\E'k]```bch'VY'UWW\dhYX'UbX'U'a Uf_'cZnYfc'k]```VY'Uk UfXYX'Zcf h\Uh'UggYgga Ybh']hYa "

: cf'gca Y'UggYgga Ybh']hYa gž'U``UhY'dYbU`hma Umbch'VY'Uddfcdf]UhY'''H\YgY'k]```VY'WYUf'm']bX]\WUhYX']b'h\Y Wci fgY'ci h']bYž'UbX'gi W\'UggYgga Ybhg'k]``'fYWY]j Y'U'a Uf_'cZnYfc']Zbch'Wca d`YhYX'Vmh\Y'gdY\JZ]YX'XUhY'' 91 Ua d'Yg']bWi XY.

- K YY_`mcb`]bY 'Hyghg'cf'`UVcfUhcfmk cf_'k cfh\ 'U'ga U``'dfcdcfh]cb'cZh\Y'gi VYWha Uf_žcf
- C b`]bY'ei]nnYg'k \YfY'Ubgk Yfg'UfY'fY`YUgYX'hc'gh XYbhg'cb'Wca d`Yh]cbz'cf'DfcZYgg]cbU` UggYgga YbhihUg_gz'k \YfY'h\Y']bhYbh]cb']g'hc'WfYUhY'Ub'Ui h\Ybh]WUggYgga Ybhih\Uh\Ug'Ub'UVgc`i hY gi Va]gg]cb'XUhYz'cf'DUgg# U]`'UggYgga YbhihUg_g"

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

 $\label{thm:continuous} IBGK ``Ug`Ub`cb[c]b[`Wcaa]haYbhhc`ZcghYf]b[`U`W`hifY`cZ`YUfb]b[`]bZcfaYX`VmUWUXYa]W]bHY[f]hm'`5``IBGK ``ghiXYbhg`\UjY`U`fYgdcbg]V]`]hmhc`UX\YfY`hc`h\]g`df]bW]d`Y`cZUWUXYa]W]bHY[f]hm'`D`U[]Uf]gaibXYfa]bYg`UWUXYa]W]bHY[f]hmUbX`]g`bchhc`YfUhYX`UhIBGK "`B'SY[Sde_SfG@EI[eVW{\WSeaXafZWbES`VbSee[YfZW_aX\Sekagdai`ž$

D`U[]Uf]ga `]g`U`hmdY`cZ]bhY``YWi U``h\YZh'`±iWUb`HU_Y`a UbmZcfa gžZfca `XY`]VYfUhY`W\YUh]b[`hc`UWV]XYbHU``m Wcdm]b[`Zfca `U`gci fWYk]h\ci hUW_bck `YX[Ya Ybh'i BGK `\Ug`dfcXi WYX`U`k YVg]hY`k]h\`U`k YU`h\`cZ fYgci fWg`hc`gi ddcfhighi XYbhg`hc`i bXYfgHUbX`UbX`Uj c]X`d`U[]Uf]ga žij]g]h`ghi XYbh'i bgk "YXi "Ui #d`U[]Uf]ga "H\Y`@YUfb]b[`7 YbhfY`Ugg]ghg`ghi XYbhg`k]h\`i bXYfgHUbX]b[`UWUXYa]W]bhY[f]hmUbX`\ck 'bchhc'd`U[]Uf]gY" H\YmU`gc`\c`X`k cf_g\cdg`UbX`WUb`\Y`d`ghi XYbhg`cbY!cb!cbY"

Mci 'UfY'U'gc'fYa]bXYX'h\Uh'WUfYZ\ ``h]a Y'a UbU[Ya Ybh']g'Ub']a dcfhUbhdUfhcZgh XmUbX'cbY'cZh\Y]XYbh]Z]YX'WUi gYg'cZd'U[]Uf]ga ']g'dccf'h]a Y'a UbU[Ya Ybh'Gh XYbhg'g\ci `X'U``ck 'gi ZZ]W]Ybh'h]a Y'Zcf

="GdYW]U`Wcbg]XYfUh]cb UbX gi dd`Ya YbhUfmUggYgga Ybh

⊋mci `\Uj Y`YI dYf]YbWX`Ub`]``bYgg`cf`a]gUXj Ybhi fY`VYmcbX`mci f`Wcbhfc``h\Uhik]```]bhYfZYfY`k]h\`mci f UggYgga YbhidYfZcfa UbWYž'mci `UfY`Y`][]V`Y`hc`Udd`mZcf`GdYW]U``7 cbg]XYfUh]cb`df]cf`hc`gi Va]hh]b[`Ub UggYgga Ybhicf`g]hn]b[`Ub`YI Ua "

D`YUgY 'bch' 'h\Uhi BGK 'bck '\Ug`U':]hhc`G]h#Gi Va]hfi `Yž'k \]W\`a YUbg`h\Uhi]Zmci `g]hUb`YI Ua `cf`gi Va]hU`d]YW\`cZUggYgga Ybhz`mci `UfY`XYWUf]b[`mci fgY`ZZ]hYbci [\'hc`Xc`gc`UbX`WUbbch`Uh\Yf`Udd`mZcf`GdYW]U` 7 cbg]XYfUh]cb"

: cf'XYhJ]`g'cZUdd`m]b['Zcf'GdYV]U``7 cbg]XYfUh]cb'UbX'WcbX]h]cbg'Zcf'h\Y'Uk UfX'cZgi dd`Ya YbhJfm

5ddYbX]I . '9b[]bYYfg'5i ghfU`]U'f95Ł'DfcZYgg]cbU` '9b[]bYYf'7ca dYhYbWm GHJbXUfX

Dfc[fUa =bhybXYX=@YUfb]b['Ci hWca Yg	
?bck `YX[Y`UbX'g_]```VUgY	
D9%"%7ca dfY\Ybg]j Yž'h\YcfmVUgYX'i bXYfghUbX]b['cZh\Y'i bXYfd]bb]b['bUhi fU`'UbX d\mg]\WJ`'g\WJYb\Wg'UbX'h\Y'Yb[]bYYf]b['Z bXUa YbhJ`g'Udd`]\WJV`Y'hc'h\Y'Yb[]bYYf]b['X]g\WJd`]bY	
D9%"&"7cbWYdh U``i bXYfgHJbX]b['cZh\Y'a Uh\Ya Uh]Wgžbi a Yf]WJ``UbU`mg]gžgHJh]gh]Wgž'UbX Wca di hYf`UbX`]bZcfa Uh]cb'gW]YbWYg'k\]W\'i bXYfd]b'h\Y'Yb[]bYYf]b['X]gW]d`]bY	
D9%" '=b!XYdh\'i bXYfghUbX]b['cZgdYW]U`]ghVcX]Yg'cZ_bck `YX[Y'k]h\]b'h\Y'Yb[]bYYf]b[X]gW]d`]bY	
D9%'('8]gWfba YbhcZ_bck `YX[Y 'XYj Y`cda YbhUbX'fYgYUfWX 'X]fYWf]cbg'k]h\]b'h\Y Yb[]bYYf]b['X]gW]d`]bY	
D9%) '? bck 'YX[Y'cZYb[]bYYf]b['XYg][b'dfUWjWY'UbX'WcbhYl hi U`'ZJWcfg']a dUWjb['h\Y Yb[]bYYf]b['X]gWjd`]bY	
D9%"* I bXYfgHJbX]b['cZh\Y'gWcdYž'df]bW]d`Ygž'bcfa gž'UWVci bHJV]`]h]Yg'UbX'Vci bXg'cZ gi gHJ]bUV`Y'Yb[]bYYf]b['dfUWfJWY']b'h\Y'gdYW]ZJWX]gW]d`]bY	
9b[]bYYf]b['Udd`]WUh]cb'UV]`]hm	
D9&"%5dd`]WUh]cb`cZYgHUV`]g\YX`Yb[]bYYf]b[`a Yh\cXg`hc`Wca d`Yl `Yb[]bYYf]b[`dfcV`Ya gc`j]b[
D9&"&": `i YbhiUdd`]WUh]cb'cZYb[]bYYf]b['hYVXb]ei Ygžhcc`g'UbX'fYgci fWYg	
D9&" '5dd`]WUh]cb`cZgmghYa Uh]WYb[]bYYf]b[`gmbh\Yg]g`UbX`XYg][b`dfcWYggYg	
D9&"('5dd`]WUh]cb'cZgmghYa Uh]WUddfcUWXYg'hc'h\Y'WcbXi WhUbX'a UbU[Ya YbhcZYb[]bYYf]b[dfcYWng	
DfcZYgg]cbU`'UbX'dYfgcbU`'Ultf]Vi hYg	
D9' "%'9h\]WU`'WcbXi Wh'UbX'dfcZYgg]cbU`'UWWci bHJV]`]hm	
D9' "&'9ZYWAj Y'cfU`'UbX'k f]MYb'Wcaaib]WUAjcb']b'dfcZYgg]cbU`'UbX'`Um'XcaU]bg	
D9' "' '7 fYUhjj Yž']bbcj Uhjj Y'UbX'dfc!UWhj Y'XYa YUbci f	
D9' "('DfcZ/gg]cbU`i gY'UbX'a UbU[Ya YbhcZ]bZcfa Uh]cb	
D9' ") 'C fXYf'mia UbU[Ya YbhcZgY`Zi'UbX`dfcZygg]cbU``WcbXi Wh	
D9' "* '9ZZYWNjj Y'NYUa 'a Ya VYfg\]d'UbX'NYUa 'YUXYfg\]d	