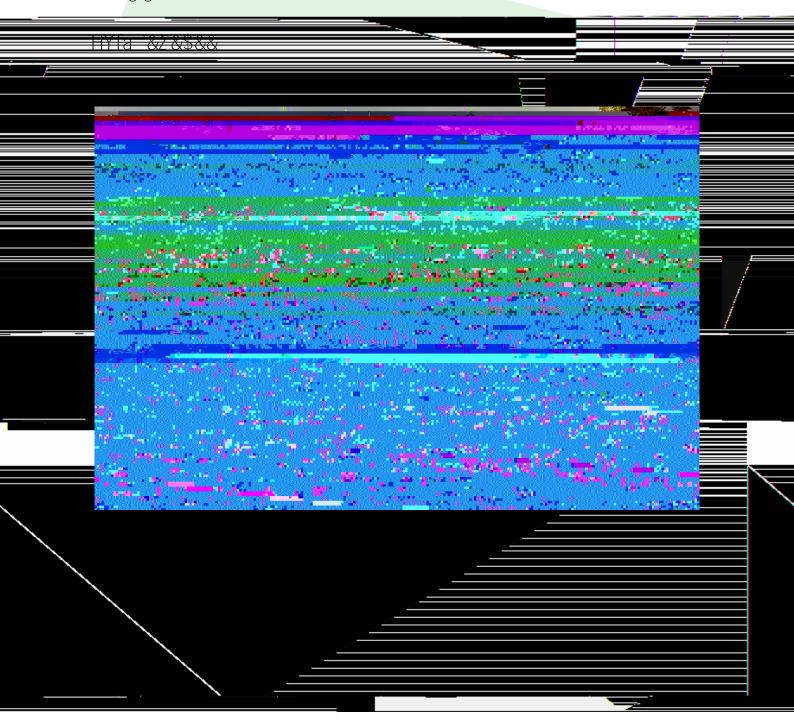


GMAT4061

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LBGK : i h fy Gh XYbhg - dch bh U`gh XYbh Ybei]f]Yg Y"["UXa]gg]cbgž ZYYgž dfc[fUa gž WfYX]h lfUbgZYf

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I b]hg~cZ7fYX]h~*

Gi a a UfmcZh\Y 7ci fgY

 $H\g"Wci fgY"]g"hY"gYWcbX"cZhk c"dUfhg"UbX"]g"i bXYfhU_Yb"UZhYf"h\Y"Wca d"YhJcb"cZ; A 5H($*$"H\Yg]g"5" H\Y"H\Yg]g"]bj c"j Yg"Zcfa i "UhJb["h\Y"XYg][bg"Zcf"UbX"gc"i hJcb"hc"cdYb!YbXYX"gi fj YmJb["UbX"[YcgdUhJU"Yb[]bYYf]b["dfcV"Ya gž"Ug"k Y""Ug"WkU"Yb[]b["Udd"]WUhJcbg""H\Y"h\Yg]g"dfc"YWhjcbg"cZa UhYf]U""UbX g_]bXi ghfmUbX"Ya Yf[]b["UfYUg"cZfYgYUfWk""H\Y"h\Yg]g"dfc"YWhg"k]""]bj c"j Y"Udd"]WUhJcbg"cZa UhYf]U""UbX g_]\"g"YUfbhh\fci [\ci hh\Y"i bXYf[fUXi UhY"dfc[fUa "UbX"k]""fYei]fY"WfYUhJj Y"h\ci [\h"H\Y"Wci fgY"k]""]bWi XY"h\Y"dfYdUfUhJcb"cZfY"Yj UbhdfcZYgg]cbU""XcW a Ybhg""; A 5H($*%H\Yg]g"6"]bj c"j Yg"h\Y gUhJgZJWcfmdfYdUfUhJcb"UbX"gi Va]gg]cb"cZUb"]bX]j]Xi U"h\Yg]g"UXXfYgg]b["h\Y"dfc"YWhd"Ub"XYZ]bYX"]b ; A 5H($*$"H\Yg]g"5"$

7ci fgY 5]a g

H\]g`Wci fgY`Yb\UbWrg`h\Y`ghi XYbhg`g_]``g`Zcf`i bXYfhU_]b[`gWXc`Uf`miYbei]fmVmUhhYa dh]b[`hc`UWX]Yj Y`U gdYWJZWhcd]WcVYWfj Y`k]h\]b`U`XYZ]bYX`dYf]cX`cZh]a Y"`5`g][b]ZJWUbhWca dcbYbhcZh\Y`Wci fgY`fY`UhYg`hc h\Y`fYj]Yk `cZ`]hYfUhi fYžk \]W\`dfca chYg`]bXYdYbXYbhUbX`fYZYWfj Y``YUfb]b[`Ug`k Y```Ug`]bWfYUgYg ghi XYbhg'`WUdUWJmmhc`XYj Y`cd`]bZcfa UhJcb``]hYfUWh''`H\Y`h\Yg]g`]g`Yl dYWYX`hc`fY]bZcfW'`h\Y`ghi XYbhg`UV]`]hm UbX`WcbZXYbWV`]b`Vch\`h\Y`cfU``UbX`k f]hhYb`Wca a i b]WUhJcb`cZhYW\b]WU``]bZcfa UhJcb"

7 ci fgY @YUfb]b[Ci hWca Yg

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&"`7cbXiVViU'h\cfci[\``]hYfUhifY'fYj]Yk	D9%" ž [.] D9%")
' "'GUhjgZJWjcb'cZjbhY``YWi U`Wfjcg]hm'UbX'WcbhfjVi hjcb'cZcf][]bU`]XYUg'UbX'fYgYUfWX	D9%"&ž [*] D9' "'
("'8 Yj Y`cda YbhcZhfUbgZYfUV`Y`g_]``g`]b`h\Y`dfcWYgg`cZXYj Y`cd]b[UbX`WfUZqb[`U`ZYUg]V`Y`fYgYUfW\`dfcYWh	D9%"* ž [*] D9' "%
) "`DfcXi WY`U`gY`ZWcbHJ]bYX`HYWXb]WU``fYdcfh	D9%"%Ž"D9%"(
*"'8YjY`cdaYbhcZcfU`'UbX'kf]hhYb'Wcaaib]\WUh]cb'g_]``g	D9' "&ž [·] D9' "(
+"`DfYgYbhih\Y`fYgYUfVX`]b`U`gYa]bUf	D9%"(ž [·] D9' "&
, "'8 Ya cbglfUlY'Ub'UV]`]lmilc'k cf_'lc'dfcXi W'XYg][bg'k \]W XfUk i dcb'_bck YX[Y'[U]bYX']b'l\Y'i bXYf[fUXi UlY'dfc[fUa "	D9&"&ž'D9' ")
- "'6Y']b'U'dcg]hjcb'hc'a U_Y'U'dcg]hj Y'Wcbhf]Vi hjcb'hc'h\Y'k cf_ZcfW Ug'U'dfcZYgg]cbU`'Yb[]bYYf"	D9%") ž [*] D9&"'
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' "`H\Yg]g`GYa]bUf DfYgYbฟฟฺcb	%) ၊	\$%#\$, #&\$&&`\$&.\$\$`DA	(ž ^{.*} ž [.] +ž [.] , ž [.] %\$
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8 i Y'XUhY. '%\$#\$*#&\$&&`\$*.\$\$`DA A Uf_g'fYhi fbYX. ''K YY_''

@]hYfUhi fY`fYj]Yk`]g`U`Wf]hJWU``dUfficZUbmfYgYUfVX."'CjYf`hJa Yž]h]g`Yl dYWYX`h\Uha UbmbYk`fYgYUfVX fYgi``hg`a UmUddYUf`]b`j Uf]ci g``]hYfUhi fY"`H\i gž``]hYfUhi fY`fYj]Yk`k]```VY`U`cb![c]b[`'hUg_`Zcf`U dfcZYgg]cbU`#YgYUfVXYf"`5hh\Y`VY[]b]b[`cZh\Y`H\Yg]g`6ž]h]g`YggYbhJU``Zcf`YUVX`ghi XYbhhc`fYZYWhcb`h\Y fja Y`gfUffjb[`Zfca `fh\Y`VY[]bb]b[`cZHYfa `%fH\Yg]g`5Ł'fc 'h\Y`YbX`cZh\Y`HYfa `&fH\Yg]g`6Ł" ≠i]g`Yl dYWfX h\Unih\Y`H\Yg]g`GYa]bUf`k]```XY`]j Yfma i W. XYYdYf`i bXYfgfUbX]bb[`cZh\Y`fYgYUfW\ 'fcd]WUbX`mci f`a i W. a cfY`gdYWJZ]WfYgYUfW\ `]ggi Yž'k]h\`[fYUhYf`WcbZ]XYbWf`zUbX``gi ddcfhYX`Vmmci f`gc`]X`ci hWca Yg`Zfca j Uf]ci g`fYgYUfW\ `UWfj]hJYg"`H\Y`XYhU]`YX`a Uf_]b[`gW\Ya Y`k]```VY`dfcj]XYX`hc[Yfh\Yf`k]h\`h\Y`WUgg dfYgYbhUfjcb`]bghfi Wfjcbg`cb`h\Y`H\Yg]g`GYa]bUf`]b`K YY_`+"

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8 i Y XUhY. '\$-#\$, #&\$&& '\$*.\$\$ 'DA A Uf_q'fYhi fbYX. 'K YY_'%

9UWX 'ghi XYbhik]```]bX]j]Xi U`mdfYdUfY 'UbX'gi Va]hh\Y 'Z]bU``h\Yg]g fYdcfff'`H\]g']g'Ub`cddcfhi b]mhc fYZYWh cb'h\Y'k \c'Y' fYgYUfWX 'dfcWfgg'UbX'h\Y'ci hWa Yg'hck UfXg'cZh\Y']XYbhjZJYX'fYgYUfWX ']ggi Y'':]fghmz'h\Y Z]bU``h\Yg]g 'g\ci `X'VY'k Y``ghfi Wi fYX'hc ``c []\W``mUff]W`UhY'h\Y' fYgYUfWX 'hcd]\WufYUZ'YgdW]U``hm\][\`][\h]b[h\Y gdY\WZ]WfYgYUfWX ']ggi Y']XYbhjZJYX'UbX'h\Y' fYgYUfWX cVYWfij Yg'hc 'VY'UWX]Yj YXZ'h\i g'XYa cbgHUf]b[ih\Y a chjj Uhjcb'cZh\Y'dUff)W`Uff'YgYUfWX 'k cf_"'Gi WX X]gWi gg]cbg'UfY'gi ddcfhYX'Vmh\Y'YI hYbXYX`]hYfUhi fY fYj]Yk "'GYWcbX'mz'h\Y'fYgYUfWX 'a Yh\cXc'c[mUbX'YI dYf]a YbHU``XYg][b'Zcf'h\Y']bhYbXYX`fYgYUfWX ']ggi YUfY'YI d'U]bYX']b'XYfUJ]g'''H\]fX`mz''fY'Yj Ubhi]bj YghJ[Uhjcb'UbX'YI dYf]a YbHU``fYgi `hg'hck UfXg'cZh\Y'fYgYUfWX cVYWfj Yg'g\ci X'VY'XYgWfVYX'UbX UbU'mYX'hc [U]b'bYk ']bg][\hg'UbX_bck `YX[Y'':]bU``mz'WcbWi X]b[fYa Uf_g'UbX'fYwa a YbXUhjcbg'Zcf'Z hi fY'fYgYUfWX 'UfY'dfcj]XYX'''9UWX'h\Yg]g 'fYdcfhik]``]bWi XY'h\Y Zcfa Uhh'X``]ghicZU``h\Y'fYzYfYbWfg''':]bU``h\Yg]g 'fYdcfhif' \$\ci \ck \]``VY'UggYggYX'VUgYX'cb'h\Y'Zc``ck]b[\wf]hYf]U.'UE'K f]hhYb'dfYgYbhUhjcb'f\@\ \ck \Zch\Yf'k cf_ff) \ck \L'Y\cZch\Yf'k cf_ff) \ck \L'Y\cZch\Yf'k a a YbXUhjcbg fYgfYfWx'k cf_ff) \ck \L'Y\cZch\Yf'k cf_ff) \ck \L'Y\cZch\Yf'k a a YbXUhjcbg fYgfYfWx'k cf_ff) \ck \L'Y\cZch\Yf'k cf_ff) \ck \L'Y\cZch\Yf'k a a YbXUhjcbg fYgfYfWx'k cf_ff) \ck \L'Y\cZch\Yf'k cf_ff) \ck \L'Y\cZch\Yf'k a a YbXUhjcbg fYgfYfWx'k cf_ff) \ck \L'Y\cZch\Yf'k cf_ff) \ck \L'Y\cZch\Yf'k a a YbXUhjcbg fYgfYfWx'k cf_ff) \ck \L'Y\cZch\Yf'k cf_ff) \ck \L'Y\cZch\Yf'k a a YbXUhjcbg fYgfYfWx'ff) \ck \L'Y\cZch\Yf'k cf_ff) \ck \L'Y\cZch\Yf'k a a YbXUhjcbg fYgfYfWx'ff) \ck \L'Y\cZch\Yf'k cf_ff) \ck \L'Y\cZch\Yf'k a a YbXUhjcbg fYgfYfWx'ff) \ck \L'Y\cZch\Yf'k cf_ffy) \ck \L'Y\cZch\Yf'y\CZch\Yf'k a a YbXUhjcbg fYgfYfWx'ffy

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	K cf_g\cd	H\Yg]g`fYgYUfVX`dfc[fYgg`X]gWgg]cbg
K_YY_''&) '>i `m!'&-	@YWn fY	F YgYUfVW 'dfYgYbfUf]cbg/H\Yg]g GYa]bUfg
>i `m	K cf_g\cd	H\Y'h]a Y'g`ch`]g'fYgW\YXi `YX'Zcf'Z]Y`Xk cf_ž'XUhU Wc``YWh]cb'UbX'UbU`mg]g
K YY_'%\$.'%'5i [i gh!') 5i [i gh	@YWhi fY	FYgYUfVX 'h\Yg]g'k f]h]b[/H\Yg]g'gYa]bUf dfYgYbhUh]cbg
	K cf_g\cd	H\Yg]gʻgYa]bUfʻdfYgYbhUh]cbg"ʻ7 cbWi X]b[fYa Uf_gʻcbʻh\YʻH\Yg]gʻ6
	5ggYgga Ybh	H\Yg]g`GYa]bUf`DfYgYbHJHcb.`8fUZhdfYgYbHJHcb g`]XYg`UfY`gi Va]HYX`%XUmYUf`]Yf`Zcf`ZYYXVUW_
Ghi XmK YY; 5i [i gh!	< ca Yk cf_	Gi Va]gg]cb cZh\Y Z]bU`h\Yg]g fYdcfh
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FYgci fW/g

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A UhYf]U`g`Zfca `dfYj]ci g`; A 5H`Wci fgYg`h\Uh'mci `\Uj Y`gh X]YX"

 $H\Y`Dck\Yf`Dc]bh`YWhifY`g`]XYg`UfY`Uj\ U]`UV`Y`Zcf`Xck\ b`cUX`Ug`D8: ~Z]`Yg`Uhh\Y`Wci\ fgY`k\ YVg]hY''`9`YWhfcb]WfYgci\ fWYg`cb`h\Y``YWhifY`Uj\ U]`UV`Y`Uhh\Y`Wci\ fgY`k\ YVg]hY'''$

 $\label{thm:continuity} H\Y'WUgg'bchYgž``UhYgh'cifbU``Ufh]WYg'UbX'fYZYfYbWYg'fY`UhYX'h\Y'WcifgY'hcd]Wg'k]```VY'fYZYffYX'hc'UbX#cfX]ghf]VihYX'Xif]b[''h\Y'`YVWifYZ'']$

@cW g 7 \ UfhY f. 'Df]bW]d Yg 'hc 'gi ddcfhiYh\]WU ``UbX 'fYgdcbg]V Y 'dfUWf]WY 'k \ Yb 'i g]b[``cWUh]cb XUhU \ \ hdg. ##Y h\]WU \ [Yc "cf[#cW g! W\ UfhY f#

FYWca a YbXYX FYgci fWYg

UŁ```K f]h]b['G_]``g`Gi ddcfhUhil BGK.:\hdg.#gh XYbh'i bgk "YXi "Ui #k f]h]b[
VŁ````7 ca di hYf`gcZk UfY fY`Yj Ubhhc'h\]g`Wci fgY`UbX`Uj U]`UV`Y`]b'h\Y`GW.cc`'g`Wca di hYf``UV
7 9*%#&\$%`Z]bWi X]b[.``A UhUV'cf`A]WfcGcZh'9| WY`žk\]W\k]```VY'i gYX`Zcf`XUhU'UbU`mg]g`Zcf'h\Yg]g'fYgYUfW\
UWnj]h]Yg"

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

Gi Va]gg]cb cZ5ggYgga YbhHUg_g

D`YUgY`fYZYf`hc`h\Y`A ccX`Y`dU[Y`cZh\Y`Wci fgY`Zcf`Z fh\Yf`[i]XUbW\`cb`UggYgga Ybhigi Va]gg]cb"

I BGK `\Ug`U`ghUbXUfX``UhY`gi Va]gg]cb`dYbU`hmcZ

•)ı 'dYf'XUmž'Zcf'U``'UggYgga Ybhg'k \YfY'U'dYbU'hm'Udd`]Ygž'WUddYX'Uh'Zjj Y'XUmg'f1%&\$`\ci fg\z'UZhYf k\]WX'U'ghi XYbh\WUbbchgi Va]h'Ub'UggYgga Ybhž'UbX'bc'dYfa]hhYX'j Uf]Uh]cb"

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

6Yk UfY "5 b 'Ugg][ba Ybhih Uh]bWi XYg 'd `U[]Uf]gYX 'a UhYf]U` 'k]```fYWY]j Y 'U`\$ı : U]`ž 'UbX 'ghi XYbhg 'k \c d`U[]Uf]gY 'UfY 'U`gc '`]UV`Y 'hc 'X]gW]d`]bUfm'UWf]cbž]bWi X]b[YI Wi g]cb 'Zfca 'Ybfc`a Ybh'

D`U[]Uf]ga `]g`h\Y`i gY`cZUbch\Yf`dYfgcb'g`k cf_`cf`]XYUg`Ug`]Zh\Ymk YfY`mci f`ck b"`K \Yb`]h]g`bYWfggUfmcf XYg]fUV`Y`hc`i gY`ch\Yf`dYcd`Y'g`a UhYf]U``mci 'g\ci `X`UXYei UhY`mUW_bck `YX[Y`k \cgY`k cfXg`cf`]XYUg`h\Ym UfY`UbX`k \YfY`mci 'Zci bX`h\Ya `f[]j]b[`h\Y`Wca d`YhY`fYZYfYbW'`XYhU]`gž`]bWi X]b[`dU[Y`bi a VYffg\te'\H\Y @YUfb]b[`7 YbhfY`dfcj]XYg`Z fh\Yf`]bZcfa Uh]cb`cb`k \UhWcbgh]hi hYg`D`U[]Uf]ga `Uh

5 WUXYa]W = 2cfa Uhlcb

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:]bU`YI Ua g`]b'H&`&\$&&`k]``VY`\Y`X`cb`]bY`VYlk YYb`%&l\`!`&) l\`5i [i gh`&\$&&`]bWi g]j Yž`UbX gi dd`Ya YblUfmYI Ua g`VYlk YYb`) l\`!`- l\`GYdlYa VYf`&\$&&`]bWi g]j Y"`Mci `UfY`fYei]fYX`lc`VY`Uj U]`UV`Y`cb l\\YgY`XUllYg"`D`YUgY`Xc`bchlc`a U_Y`UbmdYfgcbU``cf`lfUj Y``UffUb[Ya Yblg`Xi f]b[`l\\]g`dYf]cX"`

57589A = 758J = 79

- ?YmGtUZtc 7 cbtUWtZcf 5 WUXYa]W5 Xj]WY flc[]b k]th mci f n=8 UbX dUggk cfXŁ \thdg.#|btfUbYtfW| Yb["i bak "YXi "Ui # YmgtUZltc! WcbtUWtXi f]b[!mci f!ghi X]Yg!Uhi bak
- <u>? Ymil_BGK_'8 UhYg'</u>! 'Y["'7 Ybgi g'8 UhYžYl Ua 'XUhYgž``UghXUmhc'Xfcd'U'Wci fgY'k]h\ci h_UWJXYa [\\#Z\bUbW]\U```]\UV]`]\miYh\V''
- 7 J 9 B 'Gh' XYbh' = bhfubYhflc [']b 'k]h\ 'mci f'n = 8 'UbX duggk cfXŁ '\hdg. #|bhfubYh'W| Yb ["i bak "YXi "Ui #ah XYbh]bhfubYh
- Gri XYbh@ZY 'Uh7 J 9Bž']bWi X]b['Gri XYbh
 GcW]Yh]Yg. \(\frac{1}{2} \) Hrdg. #k k k "i bgk "YXi "Ui #Yb[]bYYf]b[#M] \(\frac{1}{2} \) !UbX!Ybj]fcba YbHU\!Yb[]bYYf]b[#gri XYbH\']ZY \(\frac{1}{2} \)
- GdYV)JU``7cbg]XYfUhjcb. '\hhdg.##ghi XYbh'i bgk "YXi "Ui #gdYV)JU`!Wcbg]XYfUhjcb
- ; YbYfU`'UbX'Dfc[fUa!GdYW]Z]WEiYgh]cbg. 'H\Y'BiWYig.'GhXYbh<iV'
- 6cc_'Ub'5WJXYa]W5Xj]g]b[
 gYgg]cb.'\hdg.##Udd"UW]mgWXYXi `]b["Wta #gWXYXi `Y"d\d3ck bYf1% \$&(+*)_

8]gWU]a Yf

FZ[e UagdeWagf]` WeWfe agf VWeUqlbf[a` aXU/SeeWe Sf fZWVSfWfZW5 agdeWA gf]` W[e bgT] feZWž FZW `SfgdWaXU/SeeWe _ Sk UZS` YWVgd]` Y fZWF Wd_ SXWd fZW5 agdeWA gf]` W[e bgT] feZWž? aaV WeZag V TW Ua` eg fW Xad fZWgb fa VSfWU/See VWeUqlbf[a` ež ;XfZWdW[e S` k [` Ua` e[efW Uk [` fZWVWeUdlbf[a` aX SUf[h[f]We TWfi WW fZWG` [hWde[fk f]_ WfST WS` V fZW5 agdeWA gf]` W/Se gbVSfW [` ? aaV Wfi fZW VWeUqlbf[a` [` fZW5 agdeWA gf]` W/? aaV WSbb] fWež

$= a U[Y^T f Y X] h$

A]_Y '; U`"

7F = 7CG

7F=7CG'Dfcj]XYf'7cXY.'\$\$\$-,;

5W bck `YX[Ya YbhcZ7ci blfm

 $K Y : UW\underline{b} ck `YX[Y : h, Y : 6YXY[U : dY cd `Y : k \ c : UfY : h, Y : hfUX]h\underline{j} cbU : `W ghcX]Ubg : cZh, Y ``UbXg : cb : k \]W. T BGK ? Ybg]b[hcb : WUa di g :]g ``cWUhYX"$

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

Dfc[fUa '±bhYbXYX'@YUfb]b['CihWca Yg	
?bck `YX[Y`UbX`g_]```VUgY	
D9%%7cadfY\Ybg]j Yž'h\YcfmVUgYX'i bXYfgHJbX]b['cZh\Y'i bXYfd]bb]b['bUhi fU`'UbXd\mg]WJ`'gWJYbWYg'UbX'h\Y'Yb[]bYYf]b['Z bXUaYbHJ`g'Udd`]WJV`Y'hc'h\Y'Yb[]bYYf]b['X]gWJd`]bY	
D9%"&"7 cbWYdh U``i bXYfghJbX]b['cZh\Y'a Uh\Ya Uh]Wgž'bi a Yf]WJ``UbU`mg]gž'ghJh]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	