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9b[]bYYf]b['Gh'XYbhGiddcfhGYfj]WYg'-'H\Y'BiWYig'!'Ybfc`a Ybhž'dfc[fYgg]cb'W\YW_gž'WUg\'fYeiYghgž WtifgY']ggiYg'cf'dfc[fUa!fY`UhYX'eiYf]Yg'

D\cbY. fŽ*%'&£'-',) `,) \$\$`-Bi WYi g`Gh XYbh<i V`

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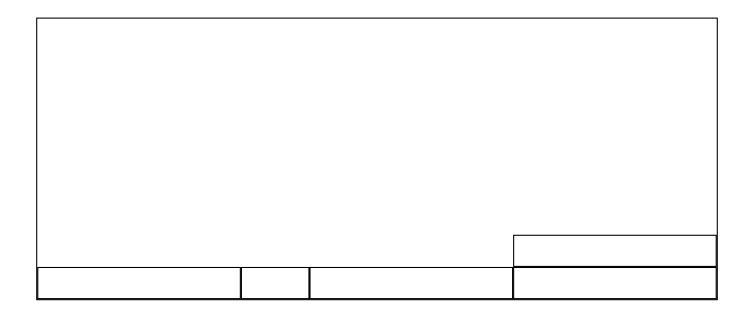
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G]`]Wcb'd\chcjc`HJ]WacXi `Yg`Wcadf]gY`r-\$ı `cZh\Y`d\chcjc`HJ]WacXi `Yg`aUbi ZJWi fYX`UbX`gc`X

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K]hh 'mci f'[fci dž'dfYdUfY 'UbX'dfYgYbh'U'%\$ 'a]b'dfYgYbh'Uhcb'cb'mci f'Ugg][bYX'DJ 'a Ubi ZUWi f]b[X]gW gg]cb'hcd]Wg''': cf'mci f'dfYgYbh'Uhjcbž'dfcj]XY'gi ZZWYbh'HYW\b]WU``VUW_[fci bX'gc'h\Uhmci f'Ui X]YbW WUb'UddfYWJUhY'h\Y'ZjbX]b[g'mci 'dfYgYbh'' gY'k\UhYj Yf'fYgci fWrg'mci '`]_Y'hc'dfYgYbh']b'Ub']bHYfYghJb[UbX'Wca dY``]b['k Um''F Ya Ya VYfž'Ub'"]bHYfYghYX"''Ui X]YbW'']g'U'[ccX'Ui X]YbW''"

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5 ggYgga Ybh`Yb[h\." !('a i `h]d`Y`dUfh'ei Ygh]cbg 8 i Y`XUhY. 'K YY_') 8 YUX`]bY`Zcf`UVgc`i hY`ZU]`. "GhUbXUfX`dYbU`hmWUi gY A Uf_g`fYh fbYX. "9bX`cZk YY_."*

 $\label{thm:condition} $$H\[g'Ugg][ba Ybh'Wcj Yfg'h'Y'WcbhYbhcZh'Y'Zfgh)'k YY_g'f@YUfb]b['C'i hWca Yg'%'' Ł'UbX']g'dUfhcZh'Y'Zfa Uhjj Y'UggYgga YbhcZh'Y'Wci fgY''$

H\]g Ugg][ba Ybh]g gi Va]h\X h\fci [\ Hi fb]h]b UbX gh XYbhg Xc bchgYY Hi fb]h]b g]a]\Uf]hmfYdcfhg"

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H\]g`Ugg][ba Ybh'Wcj Yfg`h\Y`WcbhYbhcZh\Y`Z]fgh, `k YY_g`f@YUfb]b[`C`i hWca Yg`%l(E`UbX`]g`dUfhcZh\Y`Zcfa Uh]j Y`UggYgga YbhcZh\Y`Wci fgY"

H\]g Ugg][ba Ybh]g gi Va]h\X h\fci [\ Hi fb]h]b UbX gh XYbhg Xc bchgYY Hi fb]h]b g]a]\Uf]hmfYdcfhg"

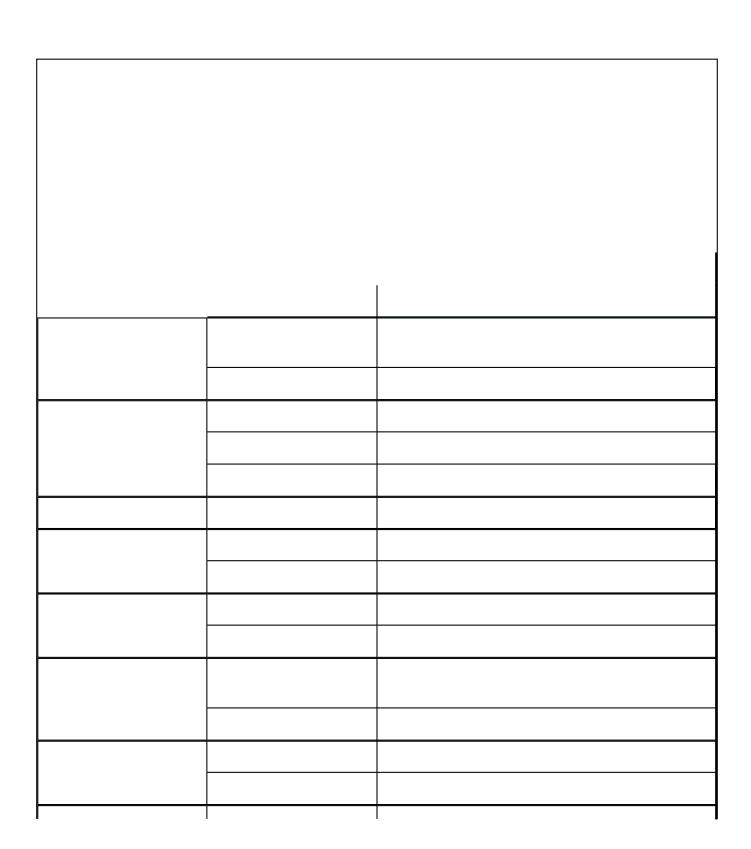
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5ggYgga Ybh`Yb[h\."!('ai`h]d`Y'dUfheiYgh]cbg 8iY'XUhY.'9lUa'DYf]cX

 $\label{eq:continuous} $$H\g^{\u}_{g'}Ugg][ba\Ybh'H\g^{\u}_{g'}W\b'H\b''_{g'}W\b''_{g'}Ufb]b[\Ci\HW\ca\Yg^{\u}_{g'}(\UbX']g'dUfhcZh\Y'gi\ a\ a\ Uh]j\Y\UggYgga\YbhcZh\Y'W\ci\fgY''$

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I	Gh XmK YY, 5i [i gh!	C b`]bY 5 Wfjj]fm	91 Ua ʻdfYdUfUhjcbʻgYWjcb"
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K cf_'gi Va]hh/X``Uh/`k]h\ci hUb`Uddfcj YX`gdYW]U``Wcbg]XYfUh]cb`cf`YI h/bg]cb`Vmh\Y`Wci fgY`WccfX]bUhcf`cf XY`Y[Uh/X`Ui h\cf]hm]g`gi V^YWhc`U``Uh/`dYbU`hmcZ) i `a Uf_`fYXi Wf]cb`dYf`XUmž`WddYX`UhZ]j Y`XUmg`f\&\$\ci fgŁ`Zfca 'h\Y`UggYgga YbhXYUX`]bYžUZh/f`k\]W\`U`gh XYbhWbbchgi Va]h\Ub`UggYgga Ybhž`Wcbg]gh/bh k]h\`I BGK '5ggYgga Ybh=a d`Ya YbhUh]cb`DfcW!Xi fY"

H\Y^UHY^dYbU`hm`]g`Udd`]YX`dYf`WU`YbXUf`XUmf]bWi X]b[`k YY_YbXg`UbX`di V`]W\c`]XUmgŁ'h\Uhh\Y UggYgga Ybh`]g`cj YfXi Y"`H\YfY`]g`bc`dfc!fUhU`cZh\Y``UhY`dYbU`hm`Zcf`gi Va]gg]cbg`a UXY`dUfhk Umh\fci [\'U\XUm'

K cf_'gi Va]hh'X`'UZhYf'h\Y`'XYUX`]bY`Zcf''UVgc`i hY`ZU]''`]g'bchUWWdhYX`'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`UfY`WYUf`m`]bX]\WUhYX`]b`h\Y Wci fgY`ci h`]bYž`UbX`gi W\`UggYgga Ybhg`fYWY]j Y`U`a Uf_`cZnYfc`]Zbch\Wca d`YhYX`Vmh\Y`gdY\\JZ]YX`XUhY" 9I Ua d`Yg`]bWi XY.

U"''K YY_`mcb`]bY'hYghg'cf``UVcfUhcfmk cf_'k cfh\ U'ga U``'dfcdcfh]cb'cZh\Y'gi VYWha Uf_žcf

V"''C b`]bY'ei]nnYg'k \YfY'Ubgk Yfg'UfY'fY'YUgYX'hc'gh XYbhg'cb'Wca d'Yh]cbž'cf

W'`DfcZYgg]cbU``UggYgga YbhihUg_gž'k \YfY`h\Y`]bhYbh]cb`]g`hc`WfYUhY`Ub`Ui h\Ybh]WUggYgga Ybhih\Uh\\Ug`UbUVgc`i hY`gi Va]gg]cb`XUhYž'cf

X"``DUgg# U]``UggYgga Ybh'hUg_g"

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cghYf]b[`U`V cZ`YUfb]b[`]bZcfa YX`VmUWUXYa]W]bhY[f]hm'5`` K`gh XYbhg`\Uj Y`U`fYgdcbg]V]`} UX\YfY`hc`h\\ bW]d`Y`cZUWUXYa]W]bhY[f]hm'D`U[]Uf]ga Yfa]bYg`UWUXYa]W]bhY[f]hmUbX` hihc`YfUhYX`Uh\ K"`B'SY[Sde_ SfG@EI [e VWX]`W Se ge[`Y adVe ad [VWSe aXafZWde S`V bSe 'fZW_ aXXSe ka

5 WUXYa]W±bZcfa Uhjcb

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

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D9%'%7cadfY\Ybg]j Yž'h\YcfmVUgYX'i bXYfgHJbX]b['cZh\Y'i bXYfd]bb]b['bUhi fU`'UbXd\mg]WU`'gW]YbWYg'UbX'h\Y'Yb[]bYYf]b['Z bXUaYbHJ`g'Udd`]WUV`Y'hc'h\Y'Yb[]bYYf]b['X]gW]d`]bY	
D9%"&"7cbWYdhi U``i bXYfghUbX]b['cZh\Y'a Uh\Ya Uh]Wgžbi a Yf]WU``UbU`mg]gžghUh]gh]WgžUbX Wca di hYf'UbX']bZcfa Uh]cb'gW]YbWYg'k\]W\'i bXYfd]b'h\Y'Yb[]bYYf]b['X]gW]d`]bY	
D9%" =: XYdh\ri bXYfgHJbX]b[rcZgdYW]Ur]ghVcX]YgrcZ_bckrYX[Yrk]h\]brh\YrYb[]bYYf]b[X]gW]dr]bY	
D9%"('8]gWYfba YbhcZ_bck `YX[Y`XYj Y`cda YbhUbX`fYgYUfW\`X]fYWf]cbg`k]h\]b`h\Y Yb[]bYYf]b['X]gW]d`]bY	
D9%") "? bck `YX[Y`cZYb[]bYYf]b[`XYg][b`dfUWfJWY`UbX`WcbHYI hi U``ZUWcfg`]a dUWfJb['h\Y Yb[]bYYf]b[`X]gWJd`]bY	
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9b[]bYYf]b['Udd`]WUh]cb'UV]`]hm	
D9&"%5dd`]WUlfjcb`cZYglfUV`]g\YX`Yb[]bYYf]b[`a Yh\cXg`hc`Wca d`Yl `Yb[]bYYf]b[`dfcV`Ya gc`j]b[
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