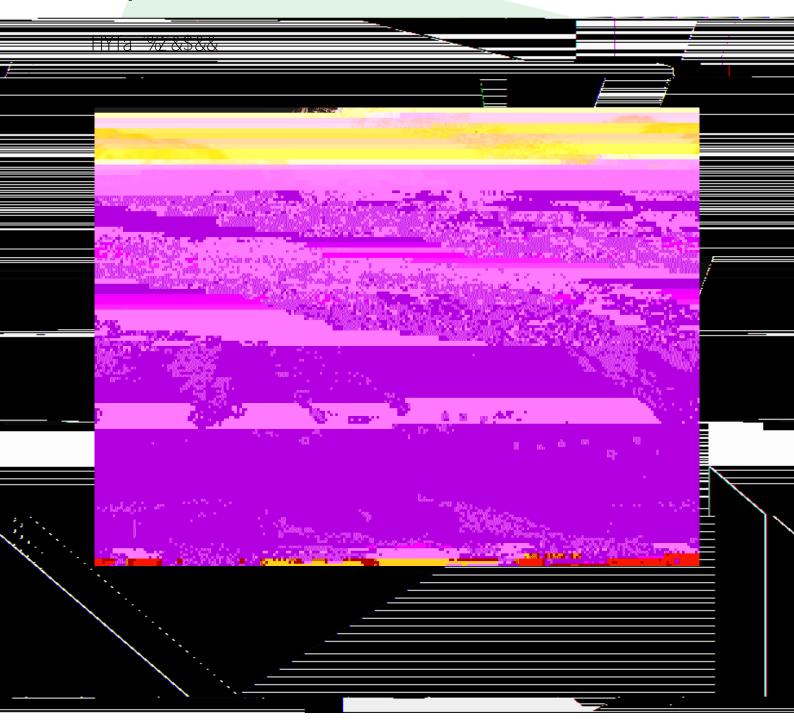


EDST6722

GcW]YhmiUbX:7i `hi fY'A Yh\cX'%



7ci fgY⁻Cj Yfj]Yk

GHJZ7cbHJWh8YHJ]`g

7cbj Ybcfg

B Ua Y	9a U]`	5j U]`UV]`] m	@cWUh]cb	D\cbY
5a UbXU [*] K YVV	<u>Ua UbXU"k YVV4 i bgk "YXi "Ui</u>			

GWXcc`7cbHJWh =bZcfa Uh]cb

GWkcc~cZ9Xi WUhcb

5fhgž:8Yg][b:UbX:5fWX]hYWhifY

; fci bX': `ccfž'A cfj Yb'6fck b'6i]`X]b['fl &\$Ł

H. 'Ž * %'f&Ł'-',) '%-++

9. YXi WUhjcb4 i bgk "YXi "Ui

K.\hdg.#kkk"Ufhg"i bgk "YXi "Ui #YXi WUhjcb

5W_bck `YX[Ya YbhcZ7ci bhfm

I BGK '5frgž8Yg][b'UbX'5fW,]hYWi fY'? Ybg]b[hcb'UbX'DUXX]b[hcb'WJa di gYg'UfY'Vi]'hcb'5Vcf][]bU`@UbXg"'K Y'dUmci f'fYgdYWg'hc'h\Y'6]X'][U''UbX'; UX][U''dYcd'Yg'k \c'UfY'h\Y'7i ghcX]Ubg'cZh\YgY'`UbXg" K Y'UW_bck 'YX[Y'h\Y'5Vcf][]bU`'UbX'HcffYg'GHfU]h=g`UbXYf'dYcd'Ygž'h\Y':]fgh5i ghfU`]Ubgžk \cgY'`UbXgžk]bXg'UbX'k UhYfg'k Y'U``'bck 'g\UfYž'UbX'dUmfYgdYWhc'h\Y]f'i b]ei Y'j U'i Ygž'UbX'h\Y]f'Wcbh]bi]b['UbX YbXi f]b['W 'h fYg'k \]W\XYYdYb'UbX'Ybf]W\h\Y'`]ZY'cZci f'bUh]cb'UbX'Wca a i b]h]Yg'''

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7ci fgY 8YW] g

$I b h c Z 7 f Y X h^*$

K cf_`cUX

%) \$`\ci fg`]bWi X]b[`WUgg`WcbHJWi\ci fgž`fYUX]b[gž`WUgg`dfYdUfUh]cbž`UggYgga Ybhž`Zc``ck`i d`UWhjj]hjYgž YhW

Gi a a UfmcZh\Y 7ci fqY

YZd Zd R Yj ScZU T` f cdV \check{z} ; e Zd RgR \check{z} RS]V e` S` eY f _UVcXcRUf ReV R_U a` deXcRUf ReV def UV_ed \check{z} YV T` f cdV T` _eV_et UV] \check{z} V \check{z} V R_U RddVdd^ V_eh \check{z}] SV \check{z} UV_e \check{z} R] Wc S` eY Xc` f ad ` Wdef UV_ed \check{z}

#b 'h\]g' Wti fgYž'mci 'k]```VY[]b 'hc '`YUfb'\ck 'hc 'hY UW. 'GcW]Y miUbX'7 i 'hi fY ']b 'gY WtbXUfm'WtbhYl hg'' Mci 'k]`` i gY 'fY Yj Ubhigm`UVi g'XcW a Ybhg 'hc 'XYj Y`cd ']bbcj Uh]j Y 'UbX'Yb[U[]b['`Yggcb 'd`Ubg'' Mci 'k]```YUfb 'UbX dfUW]gY 'U'fUb[Y 'cZYZYWfj Y 'hY UW.]b['ghfUhY[]Yg'XYg][bYX'hc 'Yb[U[Y 'U'X]j Yfg]mcZ`YUfbYfg']b 'U'gUZY 'UbX gi ddcfh]j Y 'WUggfcca 'Ybj]fcba Ybh' Mci 'k]```YUfb'\ck 'hc i gY 'X][]hU``UbX'ch\Yf']bbcj Uh]j Y 'fYgci fWYg'hc UggYgg'UbX']a dfcj Y '`YUfb]b[']b 'h\Y'X]gW]d`]bY 'UbX'hc 'XYj Y`cd '`Ub[i U[Yž`]hYfUWn'UbX'bi a YfUWng_]``g UWfcgg'h\Y'W ff]W``i a "'H\fci [\ 'gY`ZUbX'dYYf'Yj U'i Uh]cb 'mci 'k]```U`gc '`YUfb'\ck 'hc 'dfYgYbh'mci fgY`Z]b'U dfcZYgg]cbU`žgi ddcfh]j Y 'a UbbYf''

7 ci fgY @YUfb]b[Ci hWca Yg

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- &" 9j U`i UHY`\ck 'gh XYbh'W\UfUWHYf]gh]Wg`UZYWh`YUfb]b[`'UbX`Yj U`i UHY`]a d`]WUh]cbg`Zcf`HYUW\]b[gh XYbhg`k]h\`X]ZYfYbh'W\UfUWHYf]gh]Wg`UbX`Zfca 'X]j YfgY`VUW_[fci bXg
- ' " I gY 'U'fUb[Y'cZglfUllY[]Yg'hc'd'Ub'UbX'llYUW.'YZZYWljjY'`Yggcbg'hc'Yb[U[Y'U```ghi XYbhgž'UXXfYgg fY`Yj Ubh'qm`UVi g'ci llWca Yg'UbX'Ybgi fY'U'gUZY'`YUfb]b['Ybj]fcba Ybh
- ("GY`YWhUddfcdf]UhY`fYgci fWYgž`]bWi X]b[`=7Hž'hc`Yb[U[Y`ghi XYbhg`UbX`YI dUbX``YUfb]b[cddcfhi b]h]Yg
-) "8Yg][b'UbX'Yj U'i UHY'Zcfa UHj Y'UggYgga YbhighfUHY[]Yg'UbX'i gY'UggYgga Ybhi]bZcfa UHjcb'hc |adfcjY''YUfb]b[
- *" DfUWfgY 'h\Y'Yh\]WU``UbX`dfcZYgg]cbU``j U`i Yg'Yl dYWYX`cZhYUV\\Yfg

5 i glfU`]Ub DfcZYgg]cbU`GlUbXUfXg Zcf HYUWX Yfg

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	ghi XYbhg ``YUfb 'UbX 'h\Y ']a d`]WUhjcbg 'Zcf'hYUV\\]b["	
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	ghi XYbhg·Zfca ·5Vcf][]bu``ubX'HcffYg·Ghfu]h·ej`ubXYf`VuW_[fci bXg"	
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@YWn fYg'k]``dfcj]XY'Ub']bhfcXi Wnjcb'hc'UgdYWng'cZYXi WUhjcbU``dgmWxc`c[mfY`Yj Ubhhc'hxY'Wc[b]hjjY'UbX UZZYWnjjY'XYjY`cda YbhcZUXc`YgWYbng"'@YWn fYg'UbX'hi hcf]U'g'k]```]bWn XY'Ub'cjYfj]Yk 'cZWUggfcca a UbU[Ya YbhhxYcf]Yg'UbX'dfUWnjWYg"

•

±0 'h hcf]U`g`gh XYbhg`k]```[U]b`dfU₩ŊWU``YI dYf]YbWY`]b`dfc[fUa a]b[`UbX``Yggcb`d`Ubb]b["'Gh XYbhg`k]```VY]bhfcXi WYX

 $\label{thm:condition} $$ hc U'j Uf]Yhm c ZhYUWX]b['ghfUhY[]Yg'''Gh XYbhg'k]```\Uj Y'YI dYf]YbWY'k cf_]b['Wc``UVcfUh] Y`mUbX']b 'ga U`` [fci d$

g]h Uh]cbg"

5 ZYYXVUW_g\YYhk]``VY'dfcj]XYX"

Gd	YW] Z]W7	f]hYf]U							fl.Ł			2fŽŁ		
	• XYa g U	a cbglfUl]U`ž	jcb' \b]\⁄ž k, \Y	,	c`YX[Yž ifU`	YgdYW f	h Y`][]ci	g†V Wh	fgHJ c YUf			i X	b	g
	• X]	f	b]Uh]cb	lfUlY		YUf		ld`]W j h	b. A					
D	YgYb i	Uh]cb [·] h]W	Ygo bj b	dcbgY]cbg		f			c f]Uh	/	XYa]Wl	J		
	• ` `	İ	`U ŊW	bj b	YZ]cbg	Ŋcb [°]	h	(c f]UhY	X	Ya]WU			
,	b fU`	а	Ş	# YW	a	Uh]cbg	l, f	Ι'n						

FYW a YX. # \$'fl@'DG'7F'8B'<8\(\) KY][\ (\$)

B6 H\Y h]W g, b'\Y jUf cig†V | Yg†U Y'Yg][bYX', c]X , YXV

YeiU' Y][\ b' h fa b] ' Y fYW a YX' fUXY"'8YdY% '\Y bUhi
'hi Yf' bh lhiU'gY f HY fYW, a\Y , YXYYW][hYf]bJ"'

hYb Uh] Y' '\(\) i V^ Wh , U Uf Uh]cb' c Y gYg†U , c U'

U YUWX a hh Y"

FI 6F = 7 # 998657? G < 99H 98GH*+&&GC7=9HM5B87I@HIF9A9H<C8% IBGK G7<CC@C: 98I75H€B

5ggYgga Ybh'HUg_'&'I b]hcZk cf_'ci h']bY

GdYWJZJW7 fJHYfJU	···flŁ——	 	2fŽŁ
I bXYfghUbX]b['cZh\Y'ei Ygh]cb'cf']ggi Y'UbX'h\Y'_YmWcbWfdhg]bj c`j YX			
 i bXYfgHJbX]b['cZh\Y'HJg_'UbX']hg'fY`Uh]cbg\]d'hc'fY`Yj Ubh'UfYUg cZh\Ycfmz'fYgYUfW\'UbX'dfUWf)WY 			
 WUf]lmiUbX'UVW fUWn]b'i gY'cZ_Ymh/fa g'UbX'WcbW/dhg']b'i b]h d'Ubb]b[
 XYg][b'cZU'i b]hci h]bY'k \]WX'XYa cbghfUhYg'Ub'UV]`]hmhc X]ZYfYbh]UhY'h\Y'W ff]W'i a 'hc'WUhYf'Zcf'X]j YfgY`YUfb]b[UddfcUWXYg'UbX'bYYXg'k \YfY'Uddfcdf]UhY 			
YggYbhJU``Wca dcbYbhg`]bhY[fUhYX`YZZYWhJjY`m`]bhc`i b]hcZk cf_			
8Ydh\cZUbU`mg]g`UbX`Wf]h]eiY`]b`fYgdcbgY`hc`h\Y`HJg_			
 UV]`]mihc 'd`Ub 'UbX 'UggYgg 'Zcf'YZYWfj Y 'YUfb]b['VmXYg][b]b[

GdYW] ZJW7 f]hYf]U	∵flŁ2fŽŁ			2fŽŁ	

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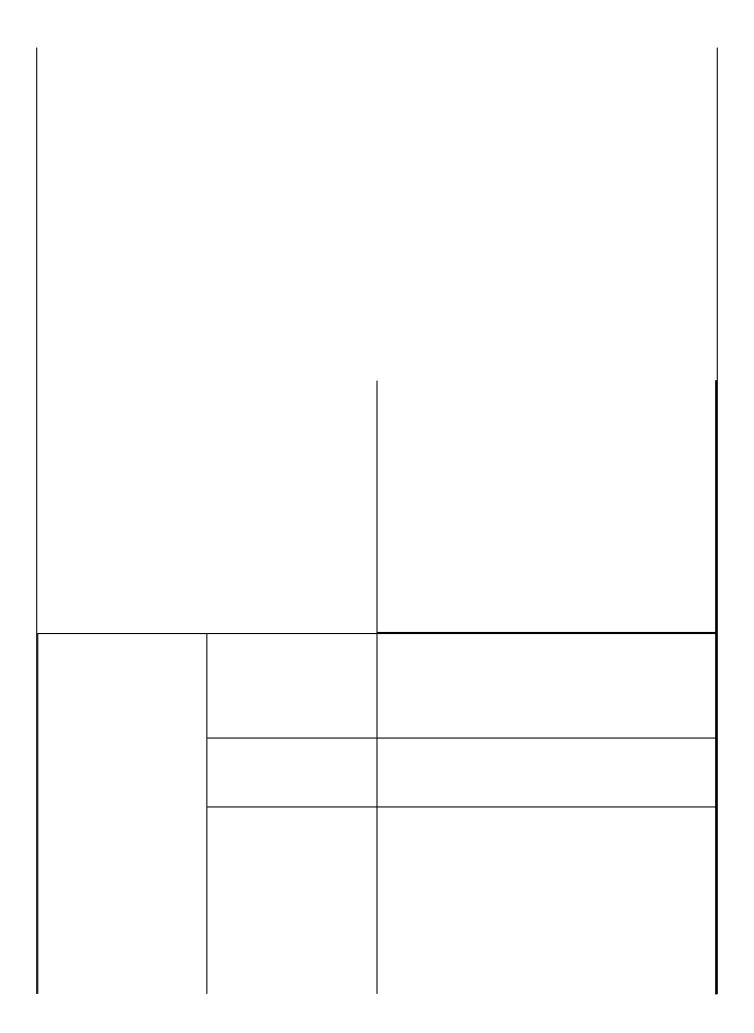
H\Y`GW\cc``cZ9Xi WUhjcb`fG98EfYei]fYgʻghi XYbhgʻa YYhUʻa]b]a i a `UhhYbXUbW\fYei]fYa YbhcZ, \$i `cZU`` gW\YXi `YX`WUggYgʻf]"%"`YWhi fYgž'hi hcf]Uʻgž'k cf_g\cdgžʻgYa]bUfgEʻZcf`U```Wci fgYg"`5hhYbXUbW\f]b`dYfgcb`]g fYei]fYX`Zcf`hi hcf]UʻgžʻgYa]bUfgž`UbX`k cf_g\cdgʻk \Yb`Wci fgY`UfY`XY`]j YfYX`]b`ZJW\facXy\facXy\"=h]gʻh\Y fYgdcbg]V]`]micZghi XYbhgʻhc`Ybgi fY`h\Uhih\Y]f`UhhYbXUbW\f`]g`fYWcfXYX`Zcf`h\Y`ZJW\fc`ZJW\Y`Y]h\Yf`Vm Y`YWhfcb]Wa YUbgʻcf'j]U`Ub`UhhYbXUbW\fY[]ghYf"`5hhYbXUbW\f']b`cb`]bY`cf`V`YbXYX`a cXY`k]``VY`UggYggYX h\fci [\`X][]hU`": i fh\Yf`]bZcfa Uhjcb`WUb`VY`Zci bX`\\fYf\"

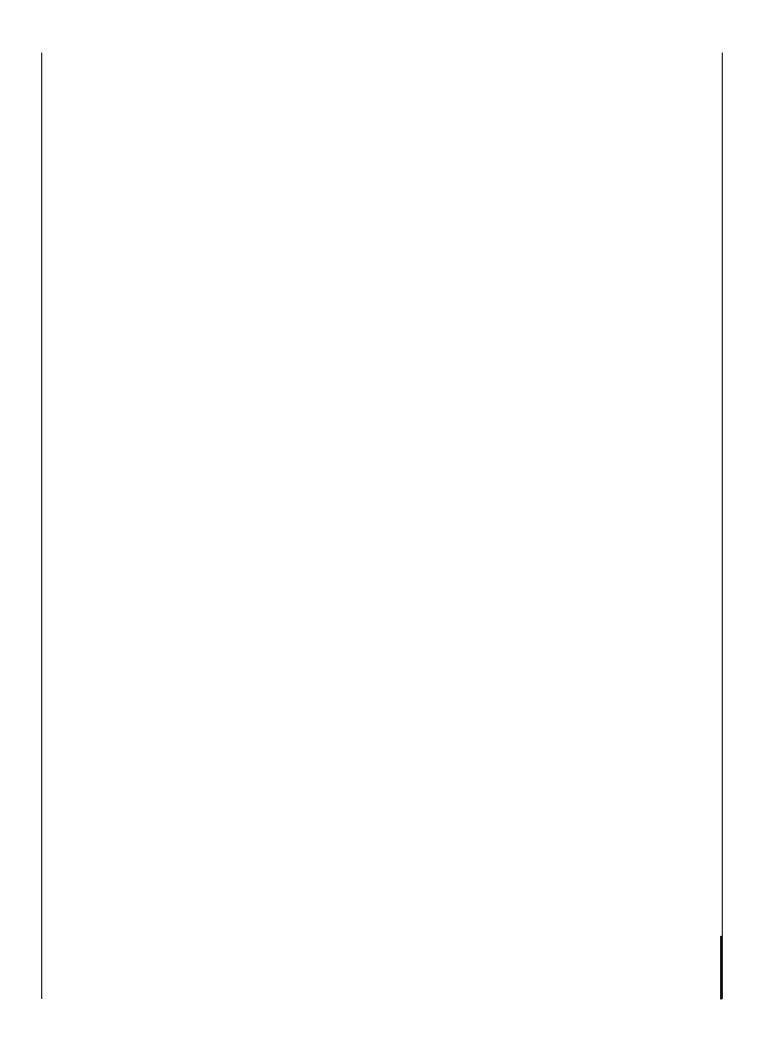
7ci fgY'GWXYXi `Y

J JYk 'WUqq'Ha YHUV'Y

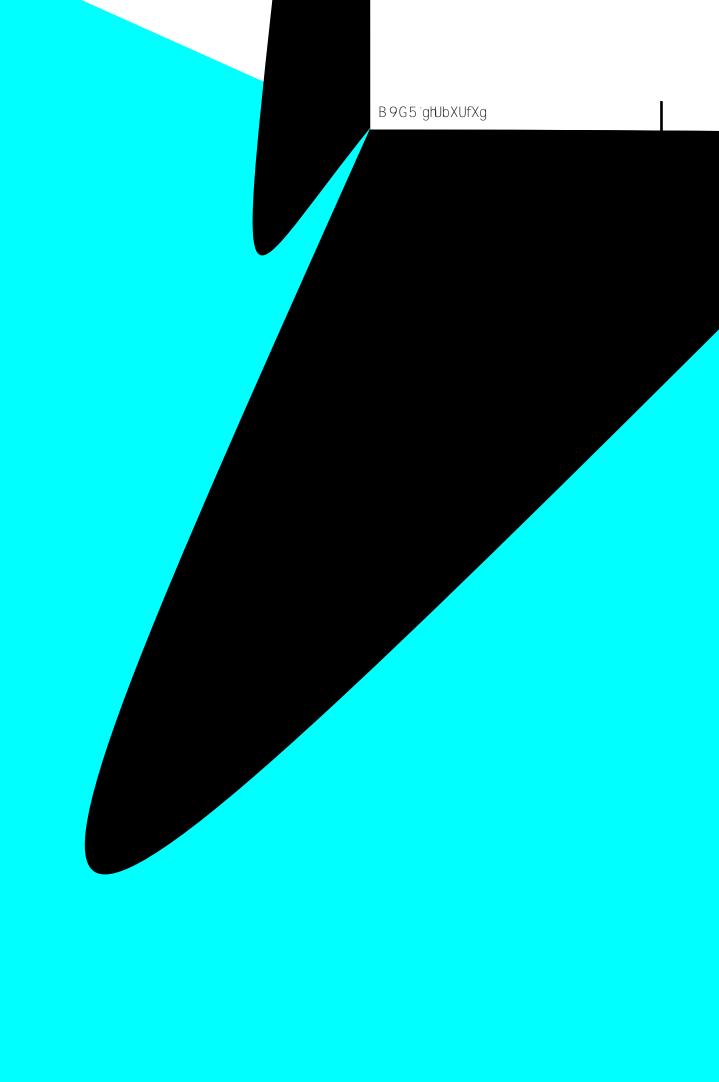
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F Ygci fWYg

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- ;]XXYbgž'5 'f&\$\$*\z'` `TZ]` Xj ž') h\ '9X]h]cbž'Dc`]hmDfYggž'7 Ua Vf]X[Y"
- ; c`XghY]bž'G"/ '6fcc_gž'F "'f&\$\$+t"' _UVcdeR_UZ_X R_U ? R_RXZ_X 5 YZJUcV_ d 5]Rddc` ` ^ 4VYRgZ f cd f&bX'9X]hJcbt"< cV_Yb. 'K]'Ym/ 'Gcbg"
- ; fci bXk UhYf!Ga]h\z'G"z'6fYbbUbz'A "z'A W UXXYbz'A "/ 'A]hWXY``z'>"'f&\$\$%£"' VT` _URg TY``]Z_X Z_ R 5YR_XZ_X H `q]U"'GmXbYm' < UfWci fh'
- ; fci bXk UhYfž'G"ž'9k]b[ž'F "'/ '@Y'7 cfbi ž'F "'f&\$\$' Ł"' VRTYZ_X, 5 YR]]V_XVd R_U 6 Z\/ \(^ \ \ \ \ Rd f&bX'' \)

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• CaghY]bž5"7""f1%-\$£""

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

☐ Inc i YbWci bhYf U'dfc V`Ya ik \Yb 'UrhYa dh]b['hc 'gi Va]hmci f 'Ugg][ba Ybhth\fci [\ 'Hi fb]h]bž'd`YUgY

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\ci fg'UfY', .\$\$Ua '-'%\$.\$\$da 'cb'k YY_XUmg'UbX'-.\$\$Ua '-') .\$\$da 'cb'k YY_YbXg'fl *) 'XUmg'U'mYUfŁ"' ☐ mci
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5 WUXYa]W<cbYghmUbX D`U[]Uf]ga

D`U[]Uf]ga `]g`i g]b['h\Y`k cfXg`cf`]XYUg`cZch\Yfg`UbX`dfYgYbh]b['h\Ya `Ug`mci f`ck b"`=hWJb`hJ_Y`a Ubm Zcfa gžZca `XY`]VYfUhY`W\YUh]b['hc`UVW]XYbhJ``mWcdm]b['Zfca `U`gci fWY`k]h\ci hUW_bck `YX[Ya Ybh'

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 $\begin{tabular}{ll} \hline \textbf{7.cdm}b[...] g]b[...] MY cf'j Yfmg]a] ``Uf'k cfXg'hc'h\Y'cf][] bU``HYI hcf']XYU'k]h\ci h`U\W_bck ``YX[]b[...] b[...] MY cf'i g]b[...] bU``HYI hcf']XYU'k]h\ci h`U\W_bck ``YX[]b[...] b[...] MY cf'i g]b[...] a UhYf]U`gž']XYUg'cf'WcbW'dhg'\faca '`U'Vcc_\text{z}'Ufh]WY\text{z} bU'Vcd_\text{z}'Ufh]WY\text{z} Ufh]WY\text{z} bU'Vcd_\text{z}'Ufh]WY\text{$

5 WUXYa]W + DZcfa Uh]cb

8 i Y 'hc 'Yj c'j]b['UXj]\W 'VmBGK '< YU't\ ž'ghi XYbhg'a i gh'\W.Y\<u>V</u>'Zcf'i dXUh\YX']bZcfa Uh]cb 'fY[UfX]b['cb`]bY 'YUfb]b['Zcf'U``'5fhgž'8Yg][b 'UbX'5f\W.]h\Y\ni fY '\wci fgYg't\]g't\Yfa 'f]]U'A ccX`Y'cf'\wci fgY']bZcfa Uh]cb dfcj]\XYX"Ł

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- fYei YghgʻZcfʻYl hYbg]cb/
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- fYj]Yk cZa Uf_g/
- I BGK '< YU`h\ 'UbX'GUZYhm'dc`]W]Yg/
- YI Ua]bUh]cb dfcWYXi fYg/

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