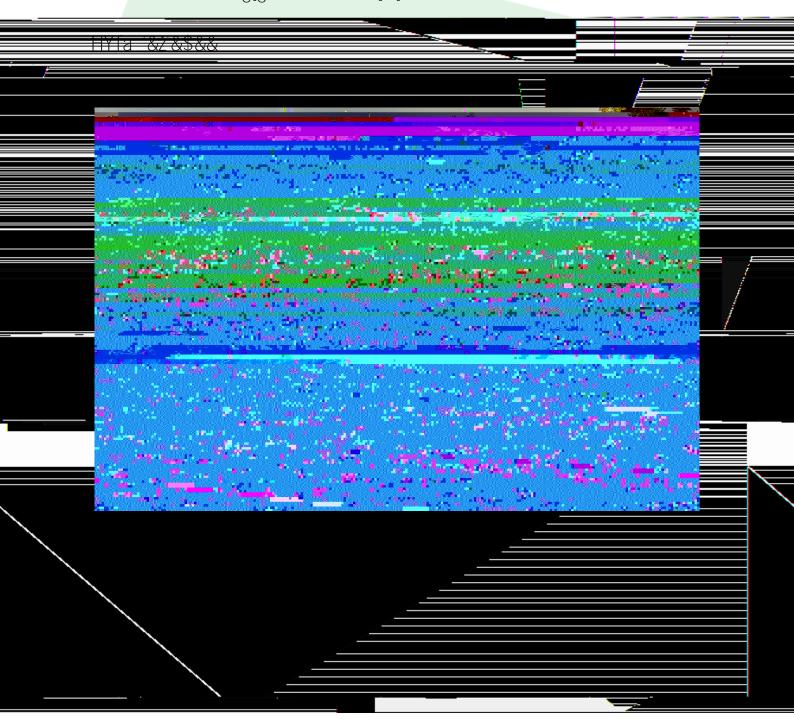


CVEN2303

Glfi WifU`5bU`mg]g'UbX'AcXY``]b[



7ci fgY 8YW] g

I b]hg cZ7fYX]h*

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H\]g`Wci fgY`]blfcXi Wigʻghi XYbhgʻhcʻghfi Whi fU``UbU`mg]g`UbX`Wca di hYfʻa cXY``]b[`cZghfi Whi fYg"'=hYl d`U]bg h\Yʻh\YcfmUbX`d\mg]Vg`VY\]bX`Yl]gh]b[`Wca di hYf`gcZhk UfY`h\UhUfY`i gYX`Zcf`h\Y`UbU`mg]g`cZWca d`]WUhYX ghfi Whi fYg"'=hU`gc`dfcj]XYgʻghi XYbhg`k]h\`U`VYhHYfʻi bXYfghUbX]b[`cZh\Y`ghfi Whi fU``VY\Uj]ci f`cZVYUa gž ZfUa Yg`UbX`hfi ggYgʻi bXYf`X]ZZYfYbh`cUX]b[`WcbX]h]cbg"`H\Y`hcc`g`UbX`_bck `YX[Y`[U]bYX`]b`h\]g`Wci fgY`UfY]bYj]hUV`Y`Zcf`h\Y`XYg][b`cZghfi Whi fYg"`H\Y`hcd]Vg`h\UhUfY`Wcj YfYX`]b`h\]g`Wci fgY`]bWi XY`fYj]g]cb`cZ ghUh]Vg`k]h\`Ya d\Ug]gY`cb`XfUk]b[`]bhYfbU``ZcfWYg`X]U[fUa g/Wcb^\[UhY`VYUa 'a Yh\cXžYbYf[mcZ ghfi Whi fYgž'df]bW]d`Yg`cZj]fhi U``k cf_/h\Y`ZcfWYfZyl]v]`]mhz'a Yh\cX/gh]ZZbYgg`a Yh\cX/UbX`a ca Ybh X]ghf]Vi h]cb`a Yh\cX`Udd`]YX`hc`Wcbh]bi ci g`VYUa g"

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H\]g`Ugg][ba Ybhk ci `X`[]j Y`mci `h\Y`W\UbW\`hc`gYY`UWi U``hYgh]b[`cZU`hfi ggžUbX`hc`Wca dUfY`h\YcfYh]WU` WU`W``Uh]cbg`k]h\`YI dYf]a YbhU``a YUgi fYa Ybhg`hU_Yb`]b`h\Y``UVcfUhcfm''

5 j]XYc cZh Y hYghk]``VY Uj U]`UVY hc j]Yk 'Uhmci f'Wcbj Yb]YbWY"H\Y Ugg][ba Ybhk]``VY UggYggYX cb h\Y VUg]g cZhYW b]WU`UVW fUWncZWU`W `Uh]cbg UbX Yj]XYbWY cZ[ccX Yb[]bYYf]b['^ X[a Ybhk]h\ Uggi a dh]cbg UbX dfcV`Ya 'g]a d`]ZWUh]cb"'`

5ggYgga Ybh& K YY_`m5gg][ba Ybhg

 $- \ ^5 gg][\ ba\ Ybhg`k\]```VY`Uj\ U]`UV`Y`cb`]bY`cb`a\ ccX`Y"`H\YmbYYX`hc`VY`gi\ Va\]hhYX`cb`]bY`Vmh\Y`Xi\ Y`XUhY\ g\ck\ b`cb`a\ ccX`Y"`$

H\YgY`Ugg][ba Ybhg`k]```_YYd`mci ii d!hc!XUhY`k]h\Y`Wci fgY`a UhYf]U`ž`UbX`k]```YbWci fU[Y`mci ihc`dfUWf)W gca Y`dfcV`Ya g`cb`U`k YY_`mVUg]g"'9UW\`Ugg][ba Ybh]bWi XYg`U'bi a VYf`cZei Ygh]cbg"'C b`mZ]bU``Ubgk Yf]g`bYYXYX`UbX`]h]g`W\YW_YX`cb`]bY"'Nci `\Uj Y`h\Y`W\UbWY`hc`UhhYa dhih\Y`gc`i h]cb`Ug`a i W\`Ug`mci `k Ubhhc [YhU`Z ```a Uf_'cZYUW\`Ugg][ba Ybh'

5ggYgga Ybh' . A]X!hYfa 'Yl Ua ''

 $H\Y'a \]X!hYfa \Yl \Ua \k \]``VY'\UggYggYX'cb'h\Y'VUg]g'cZhYWkb]WU``UVWV'fUWmcZ'WU'W'`Uh]cbg'UbX'Yj \]XYbWV'cZ \[ccX'Yb[]bYYf]b[\A X[a Ybh''H\Y'a]X!hYfa \Yl \Ua \k]``VY'\Y'X'i bXYf'cdYb'Vcc_'WcbX]h]cbg''$

5ggYgga Ybh'(.::]bU`'9l Ua

 $\label{thm:condition} $$HYY'Z_bU''YIUa''k]^*VY'Y'X''ibXYf'cdYb'Vcc_'WcbX]h_cbg'''Mci'bYYX'hc'gWcfY'Uh'YUgh'($i-']b'hXY'Z_bU''YIUa'hc'VY'UV'Y'hc'dUgg'hXY'Wci'fqY''$

<i fX`Y`fYei]fYa Ybh

5 'a Uf_'cZUh`YUgh'(\$i ']b'h\Y'Z|bU``YI Ua]bUh]cb']g'fYei]fYX'VYZcfY'h\Y'WUgg'k cf_']g']bWi XYX']b'h\Y'Z|bU` a Uf_"

5 hmy b X Ub WY F Yei] f Ya Yb hg

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

7ci fgY'GWXYXi `Y

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K YY_'%'' \$'A Um!'' >i bY	Hcd]W	#olfcXi Whjcb":Glfi Whi fU`:UbU`mg]g:UbX:XYg][b" FYj]g]cb'cZ]bhYfbU`:ZcfWYg:X]U[fUag":GhUhjWU``m XYhYfa]bUhY:glfi Whi fYg":GhUhjWU``m]bXYhYfa]bUhY glfi Whi fYg"
K YY_"&. '* '>i bY '! '%\$ >i bY	Hcd]W	7 cb↑ [UhY 'VYUa 'a Yh\cX"
K YY_" . "% ">i bY"! "%+ >i bY	Hcd]W	H\Y`df]bW]d`Y`cZkcf_`-'8YZcfaUh]cbg`]b`ghUh]WU``m XYhYfa]bUhY`ghfiWhifYg"
K YY_"(."&\$">i bY"!"&(>i bY	@YWhi fY	: cfW# `YI]V]`]hma Yh\cX`Zcf`ghUh]WU``m]bXYhYfa]bUhY`hfi ggYg"
K YY_'). '&+'>i bY'!'% >i `m	Hcd]W	: cfW/# `YI]V]`]hmia Yh\cX`Zcf`ghUh]WU``m]bXYhYfa]bUhY`ZfUaYg"
K YY_'*.'('>i `m!', '>i `m	Hcd]W	A]X!HYfa 'VfYU_

Fygci fWyg

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- HYI Mcc_g. "5bm"Glfi Wi fU`5bU`mg]g" HYI Mcc_/Cb`]bY fYgci fWg
- FYZYfYbWY'HYI HVcc_'.''GHi Wi fU`'5bU`mg]g.'Df]bW]d'YgžA YH\cXg'UbX'A cXY``]b[ž7F7 'DfYggž;]Ub`i WU'F Ubn]žF Uma cbX'±Jb';]'VYfh

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 + DZcfa Uh]cb

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:]bU`Yl Ua g`]b'H&`&\$&&'k]``VY`\Y`X'cb`]bY'VYlk YYb'%kh\'!`&) h\`5 i [i gh`&\$&&']bWi g]j Yž'UbX gi dd`Ya YbhUfmYl Ua g`VYlk YYb') h\`!'-h\`GYdhYa VYf`&\$&&']bWi g]j Y'''Mci 'UfY'fYei]fYX'hc'VY'Uj U]`UV`Y'cb h\YgY'XUhYg'''D`YUgY'Xc'bchhc'a U_Y'UbmdYfgcbU``cf'hfUj Y``UffUb[Ya Ybhg'Xi f]b['h\]g'dYf]cX'''

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• ? YmiGtUZltc '7 cbtUWhZcf '5 WUXYa]W5 Xj]WY 'flc[']b 'k]th 'mci f 'n=8 'UbX dUggk cfXŁ '