

MINE1010

A]bYfU`F Ygci fWg'9b[]bYYf]b[

HYfa `C bY`#`&\$&%

GWcc`cZA]bYfU'g/`9bYf[mF Ygci fWg'9b[]bYYf]b[`#`I BGK `9b[]bYYf]b[



7ci fgY`Cj Yfj JYk

GHJZ`7cbHJW`8YHJ`g

7cbj Ybcfg

B Ua Y	9a U`	5j U]UV]]m	@cW]hcb	D\cbY
; \]g`U]b`6ci fb]j U`	["Vci fb]j U`4 i bgk "YXi "Ui	Hi hcf]U`g`UbX `YW]i fYg.`Hi YgXUm %da `-(da ž]b! dYfgcb`cf`cb`]bY UbX`VmUddc]b]a Ybh	C`X`A U]b 6i]X]b[`fP %) Ł F a `%)`*	Ž`*%&`-\$*) &\$` `*`

GWXcc``7cbHJW`bZcfa Uh]cb

GWXcc``cZA]bYfU`g`UbX`9bYf[mF Ygci fWg
 C`X`A U]b`6i]X]b[ž`@Y] Y`%ž%) - `fP %) Ł
 I BGK `GMBB9MBGK `&\$) &5I GHF 5@5

[9b\[\]bYYf\]b\[`Gh XYbhGYfj \]Wg`](#)
 9.`a Yfy"HyUW]b[4 i bgk "YXi "Ui
 K .`k k k "Yb[]bYYf]b["i bgk "YXi "Ui #a]bYfU`g!YbYf[mF Ygci fWg

7ci fgY'8YHJ]`g

7fYX]hDc]bHg`*`

Gi a a UfmicZh\Y'7ci fgY

Mci`k`c`_Y`i`d`h`j`g`a`c`f`b`]`b`[` `UbX`'a`c`g`h`'_`Y`m`c`c`_`Y`X`'U`h`m`c`i`f`'a`c`V`]'Y`d`'l`c`b`Y`"8`X`'m`c`i` `'_`b`c`k` `h`U`h`h`]`g`'X`Y`j`]W`
U`c`b`Y`W`c`b`h`U`]`b`g`'U`V`c`i`h`)\$`X`]Z`Y`f`Y`b`h`Y`'a`Y`b`h`g`3`'h`i`a`i`g`h`V`Y`W`X`U`f`[`Y`X`'_`_`Y`'U`'c`Z`m`c`i`f`Y`'Y`W`f`c`b`]W`X`Y`j`]W`g`"6`i`h`
`l`c`k` `]`g`'h`Y`'Y`'Y`W`f`]W`m`d`f`c`X`i` W`X`3`'K` \`Y`h`Y`f`'h`]`g`Z`f`c`a` `f`Y`b`Y`k`U`V`'Y`'Y`b`Y`f`[`m`i`g`c`i`f`W`g`'c`f`'b`c`h`z`'h`Y`m`U`'f`Y`'m`c`b`
a`Y`h`U`'g`'U`b`X`'a`]b`Y`f`U`'g`'h`c`'d`Y`f`U`h`'c`f`'h`c`'V`Y`'V`i`]'h`'K` \`Y`f`Y`j`Y`f`'m`c`i` `'_`c`c`_`'m`c`i` `g`Y`Y`'a`Y`h`U`'g`'U`b`X`'a`]b`Y`f`U`'g`'U`b`X`'U`g`
f`Y`a`c`h`'U`g`'h`i`a`U`m`g`Y`Y`a`z`U`'h`Y`g`Y`[`c`c`X`g`g`h`U`f`h`X`']b`'U`'d`]`h`'z`h`h`]`g`'W`c`i`f`g`Y`'m`c`i` `k`]'X`Y`j`Y`'c`d`'U`b`'U`k`U`f`Y`b`Y`g`g`'Z`c`f`
h`Y`']a`d`c`f`U`b`V`W`'c`Z`h`Y`'a`]b`]b`[` `]b`X`i`g`h`f`m`]b`'c`i`f`']j`Y`g`"H`c`[`Y`h`Y`f`z`k`Y`'k`]'Y`i`d`'c`f`Y`'l`c`k`'W`c`a`a`c`X`]h`Y`g`'U`f`Y`
Y`i`h`U`W`X`Z`f`c`a` `h`Y`[`f`c`i`b`X`'U`b`X`'k`'l`c`'U`f`Y`]b`j`c`j`Y`X`'U`h`j`U`f`]c`i`g`'g`h`U`[`Y`g`'c`Z`h`Y`'a`]b`]b`[` `]c`d`Y`f`U`h`c`b`"H`l`Y`'h`c`d`]W`g`
W`c`j`Y`f`Y`X`']b`'h`]`g`'W`c`i`f`g`Y`'U`f`Y`[`Y`c`'c`[`m`z`'a`]b`]b`[`z`'a`]b`Y`f`U`'d`f`c`W`g`g`]b`[`z`'g`U`Z`'h`m`z`'h`Y`']a`d`U`W`h`c`Z`a`]b`]b`[` `]c`b`'h`Y`
Y`b`j`]f`c`b`a`Y`b`h`z`'U`b`X`'Y`W`c`b`c`a`]M`g`"K`Y`'k`]'U`'g`c`'X`]g`W`g`g`'Y`a`d`'c`m`U`V`]'h`m`]b`'h`Y`'a`]b`]b`[` `]b`X`i`g`h`f`m`z`k` \]W`'Y`a`d`'c`m`g`
d`Y`c`d`'Y`'c`Z`j`U`f`]c`i`g`'V`U`W`[`f`c`i`b`X`g`'f`Y`" "[`Y`c`'c`[`]g`h`g`z`'a`]b`]b`[`'Y`b`[`]b`Y`Y`f`g`z`'W`j`]'Y`b`[`]b`Y`Y`f`g`z`'a`Y`W`X`U`b`]W`j`'Y`b`[`]b`Y`Y`f`g`z`
Y`b`j`]f`c`b`a`Y`b`h`U`'Y`b`[`]b`Y`Y`f`g`z`'d`f`c`W`g`g`/`'W`X`Y`a`]W`j`'Y`b`[`]b`Y`Y`f`g`z`'U`k`m`Y`f`g`z`'Z`]b`U`b`W`W`z`Y`h`W`l`'U`b`X`'c`Z`Y`f`g`'W`c`a`d`Y`h`h`j`Y`
g`U`U`f`]Y`g`"K` \m`i`b`c`h`W`c`a`Y`'U`b`X`'Y`U`f`b`'U`V`c`i`h`c`b`Y`'c`Z`h`Y`'d`]'U`f`g`'c`Z`h`Y`'5`i`g`h`f`U`]U`b`Y`W`c`b`c`a`m`U`b`X`'U`'d`c`h`'b`h`U`
Y`a`d`'c`m`Y`f`3

7ci fgY'5]a g

H`l`]`g`'W`c`i`f`g`Y`'U`]a`g`'h`c`'d`f`c`j`]X`Y`'U`V`U`g`]W`]b`h`f`c`X`i`W`]c`b`'h`c`'a`]b`]b`[` `]U`b`X`'h`Y`'5`i`g`h`f`U`]U`b`'a`]b`Y`f`U`'g`']b`X`i`g`h`f`m`'h`i`]g`'c`Z`
f`Y`'Y`j`U`b`W`'Z`c`f`g`h`X`Y`b`h`g`Z`f`c`a`'U`'k`]X`Y`'f`U`b`[`Y`'c`Z`X`]g`V`d`']b`Y`g`'k`]h`'U`b`]b`h`Y`f`Y`g`h`]b`'h`Y`'a`]b`Y`f`U`'g`']b`X`i`g`h`f`m`z`k` \]W`
Y`a`d`'c`m`g`'g`]'Y`X`'k`c`f`_`Y`f`g`'k`]h`'X`]Z`Y`f`Y`b`h`Y`W`X`b`]W`j`'V`U`W`[`f`c`i`b`X`g`'G`h`X`Y`b`h`g`'k`]'Y`U`f`b`'h`Y`'Z`b`X`U`a`Y`b`h`U`'g`'c`Z`

- " < Uj]b[' < G97 ' WcbgWci gbYgg
%\$" 5k UfYbYgg'cZgi gHJ]bUV])mž'a i 'h!W 'h fU'UbX'['cVU']ggi Yg
%%" 6Y]b['UWj] Y''ZY!'cb['YUfbYfg"

HYUW]b['GhfUH[]Yg'

@YUfb]b[/ 'HYUW]b['A UbU[Ya YbhGmgHYa 'f@HA GŁ
H\Y '@YUfb]b[/ 'HYUW]b['A UbU[Ya YbhGmgHYa 'f@HA GŁi gYX'k]h 'h.]g'Wci fgY']g'H9@H'A ccX'Y'k \]W' WJb
VY'UW'W'ggYX'VmW]W_]b['hY'A ccX'Y'W'cb'cb'hY'\ca Y'dU[Y'cZA ml BGK "
: cf'i d'hc'XUH']bZcfa UHcb'cb''YW' fYg'UbX'k cf_g\cdgžgY' hY'7 U'YbXUf'gYW]cb']b '@HA G' UbX'hY'GW'cc'
Bch]W'VcUfX"
Gi ddcfha UHf]U'Zcf'h.]g'Wci fgY']bW' X]b[žW'cd]Yg'cZ'YW' fY' bch'gž'fYW'ca a YbXYX'fYUX]b[gž'Ugg][ba Ybhg
UbX'fYgi 'hg'Zcf'Ugg][ba Ybhg'YH'Wk \YbYj Yf'Uj U]UV'Y'WJb'VY'Zci bX']b '@HA G"
5''W'ffYgdcdbXYbW'g\ci 'X'VY'i bXYfU_Yb'i g]b['hY'Ya U]'ZUW']m]k]h]b '@HA G"
7\Ub[Yg']b 'hY''YW' fY'gW'YXi 'Yž'gYa]bUfgž'k cf_g\cdg'UbX'Ugg][ba YbhXUH'g'k]''VY'dcgh'X'cb'hY'
7 U'YbXUf']b '@HA G"
#]g']a dcf]Ubh'h.Uhgh XYbhg'fY[i 'Uf'm'W'YW_@HA G'Zcf'W'Ub[Yg']b'W'YbXUf'Yj Ybhg'UbX'Zcf'Ya U]
a YggU[Yg'' #]g'ghfcb['mfYW'ca a YbXYX'h.Uhgh XYbhg'i gY'hY'a U]'fYX]fYW]cb'ZUW']m]k'Zcf'k UfX'@HA G
Ya U]g'hc'hY]f'i gi U'Ya U]'UXXfYgg"

5ggYgga Ybhg'k]''hU_Y'hY'Zcfa 'cZU'W'ca V]bU]cb'cZ]bX]j]Xi U'Ugg][ba Ybhgž']bX]j]Xi U'dfYgYbhU]cbgž'd'i g
[fci d'dfYgYbhU]cbg'UbX'U'Z]bU'YI Ua "'H\YfY']g'Ub'cd]cbU'Z]Y'X'f]d']bW' XYX']b'hY'Wci fgYž'k]h' U'fY'UH'X
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Ugg][ba Ybh'h'Y'fY']g'U'W'ghUggcW]UH'X'k]h'hY'Z]Y'X'f]d'UbX'd'UW'g'UfY'']a]h'Xž'gc'df]cf]m]k]''VY'[]j Yb
hc'gh XYbhg'Ybfc''YX']b'hY'A]b]b['9b[]bYYf]b['Dfc[fUa "

5ggYgga Ybh

H\Y'GWcc`\Ug'U'fYdcfhk f]hb[' [i]XY'fF K ; E'Uj U]UV'Y'Zc'f'U''gh XYbfg'fU_]b['a]b]b['Yb[]bYYf]b[
Wci fgYg"J]Yk 'h]g'k YVg]h'hc'Xck b'cUX'U'WcdmicZhY [i]XY.

[\hdg.#k k k "Yb\[\]bYYf\]b\["i bgk "YXi "Ui #a \]bYfU'g!YbYf\]m
fYgci fWYg#g\]hYga \]bY#Z\]Yg#di V\]W\]h\]cbg#A 95SF Ydcfhk f\]hb\[: i \]XYSY6cc S&\\$% YX"dXZ](#)

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5ggYgga YbhHUg_g

5ggYgga YbhHUg_	K Y][\h	8i Y'8UH'	

8YHJ]g.

5ggYgga YbhW]HYf]U'ZcfYUWX']b!WUgg'UW]j]hYg'fY]hYf'ZJW!hc!ZJW'cf]b'U'j]fh U'WUggfcca E'k]'VY
YI d'U]bYX'UhHAY'ghUfhcZHY'UW]j]hmUbX']g'XYgW]VYX'k]h' hY' hUg_]b' hY' hUg_ 'XYgW]dh]cb"; YbYfU'm
gh XYbthg'k]'bYXX'hc'YI d'cfY'UbX'UbU'mgY' []j Yb'hc d]Wg'UbXz]b'U'HYUa ždfcj]XY'U'k f]HYb'fYgdcbgY'hc' hY
[]j Yb'ei YfmUhHAY'YbX'cZHY'UW]j]hmZcf'Yj U'i U]cb" H\YfY']g'bc'gi Vgh]h' hY'Zcf'hYgY']b!WUgg'UW]j]hYg"
Gh XYbthg'bYXX'hc'a U_Y'gi fY'hYmU]hYbX'WUgg'hc'VY'UV'Y'hc'gYW'fY'hY'a Uf_g'UggcW]UHYX'k]h' hY'g
UggYgga Ybh'5dd']W]h]cb'YI YfW]gYg'k]'VY'UggYggYX'VUgYX'cb'U'fYdcfhfF E'k \]W'Zcf'hY'ZJW!hc!ZJW
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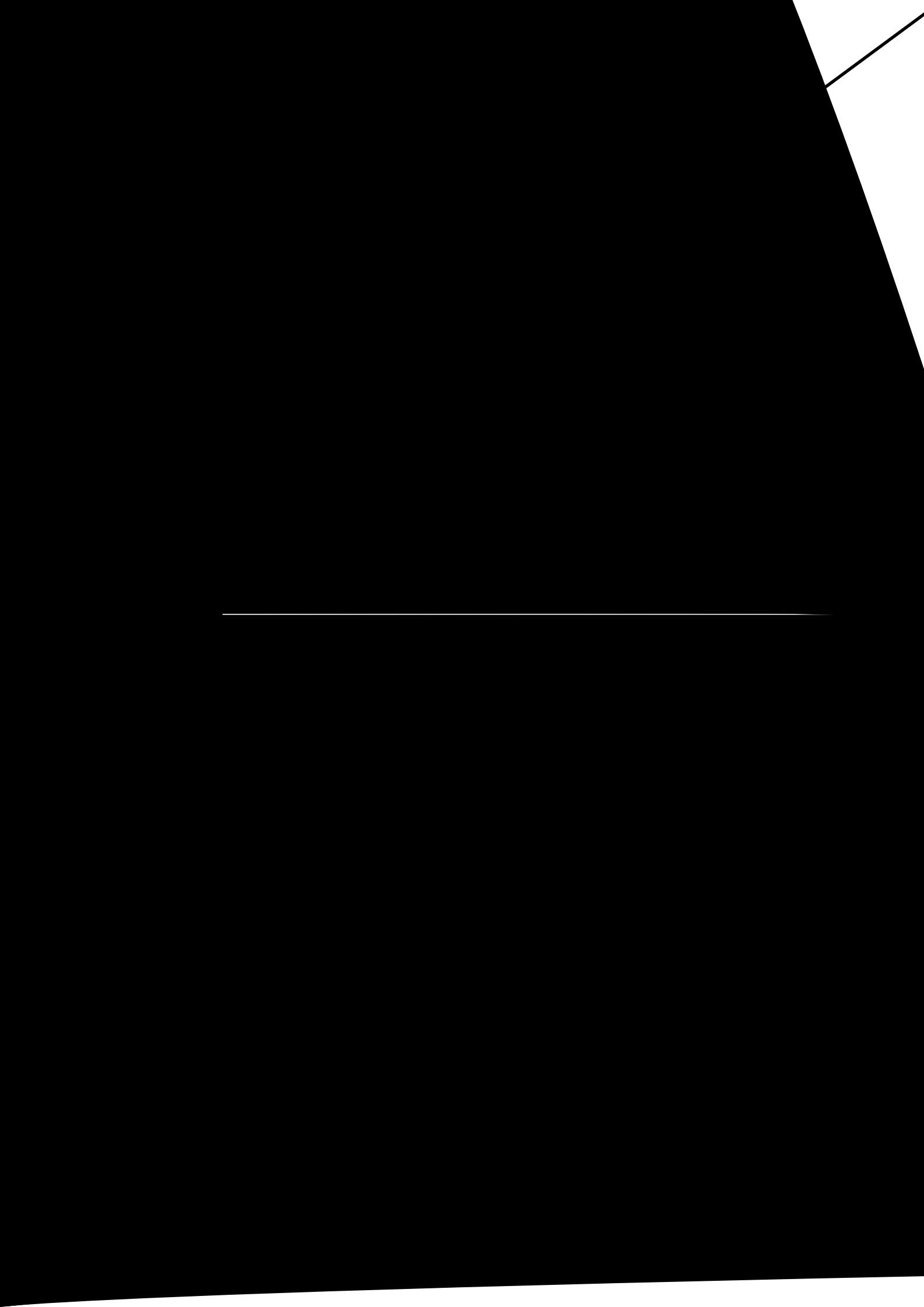
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GHUfhXUH' . Bch5dd']W]V'Y

8YHJ]g.

9UWX' [fci d'k]'dfYdUFY'cbY'fYdcfhVUgYX'cb'U'a]b]b['Z]bUbW]U'dcfrz'c"8YHJ]g'cZHY'UggYgga Ybh
W]HYf]U'UFY'Uj U]UV'Y']b' hY'XYgW]dh]cb'cZHY' hUg_' '6f]YZnž'gh XYbthg'gY'YW]g\UFYg'cZa]b]b['W'ca dUb]Yg
Zca 'hY'5i ghU']Ub'GYW'f]hYg'9I W]Ub['Y'f5GL'E' H\Ym]fUW' hY'g\UFYg'c] Yf'hY'W'ci fgY'cZHY'HYfa'UbX
X]gW'gg'hY'W]Ub['Yg']b' hY'j' U'i U]cb'cZHY'f'a]b]b['W'ca dUb]Yg" H\Y'Z]bU'a Uf_']g'XYHYfa]bYX'Zca'U
fYdcfhgi Va]hYX'UhHAY'YbX'cZHY'HYfa "'5' [fci d'a Uf_']g'Ugg][bYX'UbX']bX]j]Xi U'a Uf_g'UFY'gW]YX'Zca'U
dcfh]cb'cZHY' [fci d'a Uf_'VUgYX'cb'hY'W'cbf]Vi h]cb'cZYUWX' [fci d'a Ya VYf' " 6' UXX]h]cb'hc'hY'fYdcfrž
gh XYbthg'Ybfc'YX']b' hY'ZJW!hc!ZJW'W'ci fgY'k]'dfYgYbH]hY]f']bj Ygfa Ybhg]fUHY' [mž'dcfrz'c'UbX'dcfrz'c'
dYfZcfa UbW']b'U'g\cfhWUgg'dfYgYbH]h]cb"

Hi fb]h]b'gYh]b[. H\]g'Ugg][ba Ybh]g'gi Va]hYX'h'fci [\ 'Hi fb]h]b'UbX'gh XYbthg'W]b'gY'Y'Hi fb]h]b'g]a]'Uf]hm
fYdcfhg"



- I BGK '@YUfb]b['7YbfY!' [k k k "Wi bgk "YXi "Ui](#)
- 7 ci bgY``b['gi ddcfh! [k k k "Wci bgY``\]b\["i bgk "YXi "Ui](#)

9ei]HUV`Y`@YUfb]b['GYfj]Wg

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

Mci f`YWñ fYf`UbX`hY`l b]j Yfg]mik]`Yl dYWñmci fgi Va]hYX`Ugg][ba Ybñg`UfY`hfi`mimci f`ck b`k cf_"l BGK
`Ug`j YfmWYUf`[i]XY`]bYg`cb`k `Uhd`U[]Uf]ga`]g`UbX`ck`hc`Uj`c]X`]h`D`U[]Uf]ga`]g`i`g]b[`hY`k cfXg`cf
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a UbmZcfa gžZca`XY`]VYfUñ`WXYUñ]b[`hc`UWñ]XYbñ`miW`dm]b[`Zca`U`gci fW`k]hci hUW_bck`YX[Ya Ybñ

- VfcUXVUbX`WcbbYWjcb`f&) *`_V]hgYWcf`ZJghYfŁ
- UV]`]mhc`j`Yk`ghfYUa`]b`[`j`XYc`fŁ][`\\`cf`ck`XYZ]b]hcb`I`BGK`HJ`cdh]cbgŁ

A cfY`]bZcfa`Uhcb`UVci`hgmgH`a`fYei`]fYa`YbHg`]g`Uj`U]`UV`Y
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5VWYgg]b[`7ci`fgY`A`UHf]U`g`H\fcI`[`\\`A`ccX`Y`

7ci`fgY`ci`h]bYgžgi`ddcfha`UHf]U`g`UFY`i`d`cUXYX`hc`A`ccX`YžhY`i`b]j`Yfg]mghUbxUfX`@YUfb]b[
 A`UbU[`Ya`YbhGmgH`a`f@a`GŁ`"b`UXX]hcbžcb!`]bY`Ugg][`ba`Ybhgi`Va`]gg]cbg`UFY`a`UXY`i`g]b[`hY`
 Ugg][`ba`YbhXfcdVcl`ZUW]`]midfcj`]YX`]b`A`ccX`Y`"5`"Ybfc`"YX`gh`XYbHg`UFY`Ui`hca`UH`W`"m]bW]`XYX`]b`
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[k`k`k`"a`ccX`Y`"h`h`i`bgk`"YXi`"Ui`](#)

<ck`K`Y`7cbhUWh`Mci`

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K`Y`i`bXYfghUbx`h`Uhmc`i`a`Um`Uj`Y`Ub`YI`]gh]b[`Ya`U]`UW`Wc`i`bhUbx`k`ci`X`dfYZf`Zcf`mci`f`I`BGK`Ya`U]g`hc`
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 Ya`U]g`" "<ck`WUb`=Zcfk`UfX`a`mYa`U]g`hc`UbchYf`UW`Wc`i`bfB"

<ck`Mci`7Ub`7cbhUWh`I`g`

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- 9bfc`a`Ybhcf`chYf`UXa`]b`ei`Ygh]cbg`fY`UfX]b[`mci`f`dfc`[`fUa`.
[\hdg`##`bgk`\]bg\]\[`h`a`\]fcgcZ`W`a`dcffU`g`W`a`#`YV!Zcfa`g#`](#)
- 7ci`fgY`]bei`]f]Yg`g\ci`X`VY`X]fYWYX`hc`hY`7ci`fgY`7cbj`Ybcf`

⇒ U[`Y`7`fYX]h`

I`BGK`GMBB9M`

7F`⇒`CG`

7F`⇒`CG`Dfcj`]XYf`7`cXY`.\$\$\$`-`,`;

5W_bck`YX[Ya YbhcZ'7ci bHfm

K Y`UW_bck`YX[Y`hY`6YXY[U`dYcd`Y`k`c`UfY`hY`hfUX]hcbU`W`gfcX]Ubg`cZ`hY`UbXg`cb`k`\\W`I`BGK
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