

CVEN9630

; fci bXk UhYf'<mXfc`c[m'UbX'FYgci fWYg'5bU`mg]g



7ci fgY^{*}Cj Yfj]Yk

GhJZZ 7 cbhJWh 8 YhJ] g

7cbj Ybcfg

| BUa Y | 9a U]` | 5j U]`UV]`] h m | @cWUh]cb | D\cbY |
|-------------------|-----------------------------|--------------------------------|----------|-------|
| A Uffijb 5bXYfgYb | a "UbXYfgYb4 i bgk "YXi "Ui | 6mUddc]bha Ybh j]U^A ccX`Y | 79' \$' | |

@YWhi fYfg

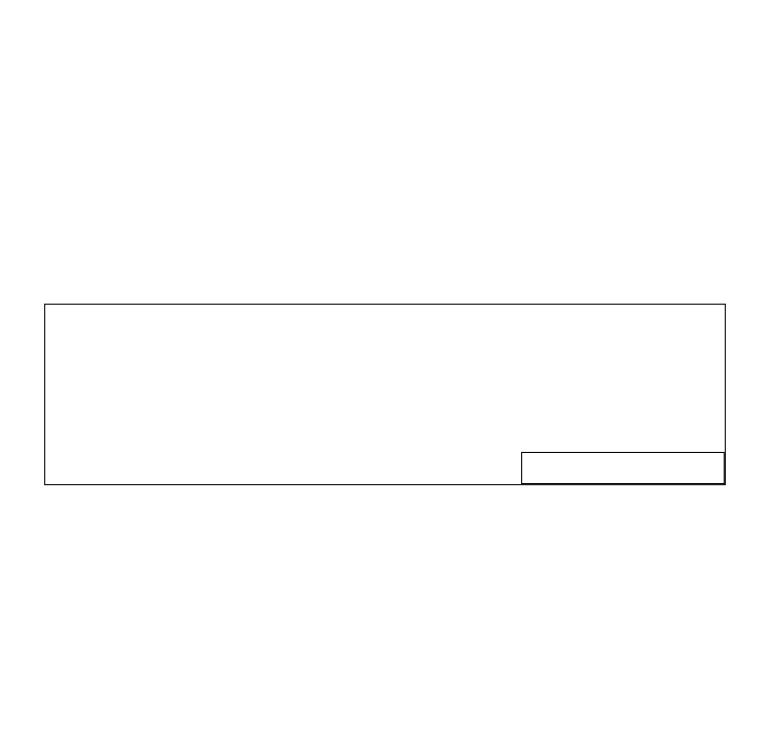
| BUa Y | 9a U]` | 5j U]`UV]`]lm | @cWUh]cb | D\cbY |
|--------------------------|-------------------------------|---------------------------------|----------|-------|
| A U\a ccX'GUXUH bccf] | a "gUXUhbccf]4 i bgk "YXi "Ui | 6m'Uddc]bha Ybh j]U'A ccX'Y | | |

GWXcc`7cbHJWh ≠bZcfa Uh]cb

9b[]bYYf]b['Gh XYbhGi ddcfhGYfj]\Wg

| 7 | ci fgY 8YM]`g |
|---|------------------|
| I | b]hg~cZ~7fYX]h~* |

 $\label{thm:cby:cby:cb} $$ 'YWi fY'g`chcb'K YXbYgXUm'Yj Yb]b[g`fW, .$$'hc'&$.$$E'UbX'cbY'Xi f]b['k cf_]b['\ci fg'cb'H\i fgXUmg'fW(.$$'!'%'.$$E'''Mci 'UfY'glfcb['mYbWci fU[YX'dUft]W]dUhY'fYU'!h]a Y']b'h\Y'cb`]bY'`YWi fYg'''-Z' mci 'UfY'i bUV'Y'hc'dUft]W]dUhY'cb']bY']b'fYU'!h]a YE'h\Yb'mci 'WUb'fYj]Yk 'h\Y'fYWcfXYX''YWi fYg''''''$



5ggYgga Ybh' . 5gg][ba Ybh'

GHJfhXUhY. '% #+#&\$&&
Gi Va]gg]cb'bchYg. 'Gi Va]gg]cb'j]U'A ccX'Y
8i Y'XUhY. '&- #+#&\$&&
8YUX`]bY'Zcf'UVgc`i hY'ZJ]`. '') 'XUmg'UZhYf'h\Y'gi Va]gg]cb'XUhY
A Uf_g'fYhi fbYX. '') # #&\$&&

 $FZWUaddwUf Wee aXS`ei Wde fa cgWef[a`e aX[`UdwSe[`Y V[X{Ug}fk [e cgS`f[X]WVZFZWefgVW] fe i [^Sbb^k fwUZ`[US^]`ai WwYWS`V W Y[`Wwd[`Y bd[`U[b^We fa, ZkVdaYWaUZW_ [US^S`V [eafab[U]`ai \wYWS`V _ WfZaVe XadYdag`Vi SfWd[`hWef[YSf[a`eZCgWef[a`e SdWVWe[Y`WW fa VWhWab S`V USbfgdWfZWefgVW] fe [`ZVWbfZ]`ai \wYWaX5ZSbfWde #&S`V #' z`$

5ggYgga Ybh(5gg][ba Ybh(

GHJfhXUhY. '&+#+#&\$&&
Gi Va]gg]cb'bchYg. 'Gi Va]gg]cb'j]U'A ccX'Y
8i Y'XUhY. '%#, #&\$&&
8YUX`]bY'Zcf'UVgc`i hY'ZJ]`. '') 'XUmg'UZhYf'h\Y'gi Va]gg]cb'XUhY
A Uf_g'fYhi fbYX. ''' %#, #&\$&&

 $FZWUaddWUf Wee aXS`ei Wde fa cgWef[a`e aX[`UdWSe[`YV[X]Ug'fk [e cgS`f[X]WWZFZWefgVW fe i [^Sbb'k fWUZ`[US^]`ai 'WWYWS`V W Y[`WWd[`Y bd[`U[b'We fa, SebWUfe aXTadWVWe[Y`-YWabZke[US^i W'\Z'aYY[`Y-YWaZWWUfd[US^S`V eW[e_ [U egdhWk [`fWdbdWfSf[a`zCgWef[a`e SdWVWe[Y`W fa VWhWab S`V USbfgdWfZWefgVW fe]$

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

7ci fgY'GWXYXi `Y

J]Yk 'WUgg'ha YHUV'Y

H]a YtUV`Y

| 8 UHY | Hmd Y | 7 cbhYbh | |
|-----------------------------------|-----------|--|--|
| K YY_"%" \$"A Um!"" >i bY | @YWhi fY | K YXbYgXUm @YWi fY %! =blfcXi Wjcb hc < mXfc[Yc`c[mif7\UdhYf`%L | |
| | @YWhi fY | H\i fgXUm @YWi fY &!!D\mg]WU`dfcdYff]Yg'UbX8UfWig@Uk'f17\UdhYf'&L | |
| | | 5gg][ba Ybh%; i]XUbW | |
| K YY_'&.'*'>i bY'!'%\$ >i bY | @YWhi fY | K YXbYgXUm @YWi fY" '!'HfUbgdcfhYei Uhjcbg'UbXghYUXmghUhY'Zck 'f17\UdhYf" Ł | |
| | @YWhi fY | H\ifgXUm @YWifY ('!5ei]ZYfghcfU[Y'UbX UVghfUWhcb]a dUWhgf7\UdhYf(Ł | |
| | | 5gg][ba Ybh%; i]XUbVW | |
| K YY_" . "% ">i bY"! "%+ >i bY | @YWhi fY | K YXbYgXUm @YWi fY') '!'; fci bXk UhYf'a cXY``]b[Z bXUa YbhU`g'f17 \UdhYf') Ł | |
| | K cf_g\cd | H\i fgXUm 5gg][ba Ybh&; i]XUbW | |
| K YY_'(.'&\$'>i bY'!'&(>i bY | @YWhi fY | K YXbYgXUm @YWi fY + !! 8 f]``]b[hYW.b]ei Yg`f17 \UdhYf`%%L` | |
| | | @YWnffY', '!'5VghfUWnjcb'VcfY'XYg][b'UbX a U]bhYbUbWY'f17\UdhYf'% Ł | |
| | @YWhi fY | H\i fgXUm @YWh fY'- '!'K Y```\mXfUi `]Wg'UbX di a d]b['HYghXYg][b'fl'\UdHYf'+Ł | |
| K YY_').'&+'>i bY'!'% >i `m | @YWhi fY | K YXbYgXUm @YWi fY %\$ '! Di a d]b['hYgh]bhYfdfYhUh]cb f17 \UdhYf', Ł | |
| | K cf_g\cd | H\i fgXUm'5g][ba Ybh'&'; i]XUbVV | |
| K YY_'*.'('>i `m'!', '>i `m | @YWhi fY | : @9L =6 =@+HMK 99? ` "BC "@97HI F 9G | |
| K YY_'+.'%%'>i `m!'%) >i `m | @YWhi fY | K YXbYgXUm @YWi fY %%! F YWXUf[YžX]gWXUf[Y UbX gi fZJWY k UhYf! [fci bXk UhYf]bhYfUWjcb f7 \UdhYf* Ł | |
| | @YWhifY | H\i fgXUm @YWhifY "%&"!"; fci bXk UhYf | |

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FYgci fW/g

DfYgWf]VYX F Ygci fWYg

7 ca dfY\Ybg]j Y'[fci bXk UhYf`YWhi fY'bchYg`UfY'dfcj]XYX`cb'h\Y`A ccX`Y`g]hY''`F Y`Yj UbhW\UdhYfg`Zcf`YUW\ k YY_`]g`]bX]WUhYX`]b'h\Y`Wci fgY`gW\YXi `Y''`@YWhi fY`fYWcfX]b[g`UbX`Dck Yfdc]bhdfYgYbhUh]cbg`k]```U`gc`VY a UXY`Uj U]`UV`Y`cb`A ccX`Y`Ug'h\Y`Wci fgY`dfc[fYggYg''`

FYWca a YbXYX FYgci fWYg

FYWca a YbXYX'[fci bXk UhYf'hYl h/cc_g.

- 5dd`]YX`<mXfc[Yc`c[mi!:cifh\'9X]h]cb`f&\$\$\\Vm7"K":YhhYf/diV`]g\YX`VmDfYbh]W\\`<U```!:cf`UVUg]W]bhfcXiV\\qcb"
- ; fci bXk UhYf`\mXfc`c[mf&\$\$) ŁVmHcXXž8"?"ž/ A Umgž@"K "K]YmžBYk >YfgYm"

J Uf]Uh]cbg`hc`gVXYXi `Y`k]``VY`Ubbci bWYX`cb`A ccX`Y"`H\Y`k cf_g\cdg`UfY`a YUbhhc`]bhfcXi WY`h\Y Ugg][ba Ybhg`UbX`dfcj]XY`Ubgk Yfg`hc`ei Ygh]cbg`mci `a Umi\Uj Y`]b`fY`Uh]cb`hc`h\Y`Ugg][ba Ybhg`UbX`h\Y

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 \UgʻUʻghUbXUfX``UhYʻgi Va]gg]cb dYbUʻhmcZ

•)ı 'dYf'XUmž'Zcf'U``'UggYgga Ybhg'k \YfY'U'dYbU'hm'Udd`]Ygž'WUddYX'Uh'Zj Y'XUmg'f1%\$'\ci fgŁž'UZNYf k\]WX'U'gh XYbh'WUbbchgi Va]h'Ub'UggYgga Ybhž'UbX'bc'dYfa]hNYX'j Uf]Uh]cb"

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

6Yk UfY "5b" Ugg][ba Ybhh\Uh]bWi XYg"d`U[]Uf]gYX"a UhYf]U``k]```fYWY]j Y"U"\$ı ': U]`žUbX`ghi XYbhg`k \cd"\U[]Uf]gY\"a UmZU]``h\Y'Wci fgY"'Ghi XYbhg`k \cd"\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'

 $D`U[]Uf]ga ~]g'hY'i gY'cZUbch\Yf'dYfgcb'g'k cf_'cf']XYUg'Ug']Zh\Ymk YfY'mci f'ck b'''K ~Yb']h]g'bYWYggUfmcf XYg]fUV'Y'hc'i gY'ch\Yf'dYcd'Y'g'a UhYf]U`'mci 'g\ci `X'UXYei UhY`mUW_bck `YX[Y'k \cgY'k cfXg'cf']XYUg'h\Ym$

5 WUXYa]W = b Zcfa Uh cb

:]bU`'9l Ua]bUh]cbg.

:]bU``Yl Ua g`]b`H&`&\$&&`k]```VY`\Y`X`cb`]bY`VYłk YYb`%&h\`!`&) h\`5i [i gh`&\$&&`]bWi g]j Yž`UbX gi dd`Ya YbhUfmYl Ua g`VYłk 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[`f\\]g`dYf]cX"`

57589A = 7.58J = 7.9

- ? YmiGtUZztc '7 cbtUWiZcf '5 WUXYa]W5 Xj]WY flc[']b 'k]th 'mci f 'n=8 'UbX dUggk cfXt '\text{htdg.#|btfUbYtiW| Yb["i bgk "YXi "Ui # YmlgtUZItc!WcbtUWiXi f]b[!mci f!gti X]Yg!Utli bgk
- <u>? Ymil_BGK_'8 UhYg'</u>! 'Y["'7 Ybgi g'8 UhYžYI Ua 'XUhYgž``UghiXUmhc 'Xfcd'U'Wci fgY'k]h\ci h UWUXYa]\#Z|bUbW]U```]UV]`]miYhW''
- 7 J 9B 'Gh XYbh + bhfubYhflc[']b k]h 'mci f'n + 8 'UbX dUggk cfXŁ '\hdg. # bhfubYh'W Yb["i bgk "YXi "Ui # gh XYbh] bhfubYh
- Gh XYbh@ZY 'Uh7 J 9Bž]bWi X]b['Gh XYbh GcW]Yh]Yg. \(\frac{1}{2} \) Htdg. #k k k "i bgk "YXi "Ui #Yb[]bYYf]b[#M] \(\frac{1}{2} \)! UbX!Ybj]fcba YbHU\!Yb[]bYYf]b[#gh XYbH\]ZY \(\frac{1}{2} \)
- GdYV)JU``7 cbg]XYfUhjcb. \https://https://www.https://https://https://https://https://www.https://ht

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

| Dfc[fUa '±bHybXYX'@YUfb]b['CiHWcaYg | | | |
|---|-----|---|--|
| ?bck `YX[Y`UbX'g_]```VUgY | | | |
| D9%"%7cadfY\Ybg]jYž'h\YcfmVUgYX'ibXYfgHJbX]b['cZh\Y'ibX d\mg]WJ`'gW]YbWYg'UbX'h\Y'Yb[]bYYf]b['ZbXUaYbHJ`g'Udd`]WJV` | | | |
| D9%"&"7cbWYdhi U``i bXYfgHUbX]b['cZh\Y'a Uh\Ya Uh]Wgžbi a Yf]N Wca di hYf'UbX']bZcfa Uh]cb'gW]YbWYg'k\]W\'i bXYfd]b'h\Y'Yb[]bY | | | |
| D9%" =b!XYdh\i bXYfghUbX]b[cZgdYW]U`]ghVcX]Yg`cZ^ | VW" | ‰ | |
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