



COMD5001

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7ci fgY'8YHJ]`g

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Gi a a UfmicZ`h`Y'7ci fgY

5fY`mci`]bHYfYghYX`hc`i` bXYfghUbx`k` \mi`h`YfY`]g`U`f]Wk`k`cfX`UbX`h`YfY`]g`U`d`ccf`k`cfX3`K` \Uhi`md`Y`c`Zgc`W]c!
YWcbca`]WUbX`Ybj`]fcb`a`YbH`U`dc`]WYg`Wb`VY`]XYbh]ZYX`UbX`]a`d`Ya`YbHYX`hc`UXXfYgg`gca`Y`c`Z`h`YgY
XYj`Y`cda`YbhW`U`Yb[`Yg3`#`h`g`Wci`fgYz`mci`k`]`W]h]W`mYb[`U[`Y`k`]h`gYj`YfU`c`Z`h`Y`fV][`]ggi`Ygfi
WcbW`fb]b[`]bHYfbU]cbU`XYj`Y`cda`Ybhdc`]Wm`UbX`]\][`]\`]h`g`h`Y`]b_`VYhk`YYb`]XYUgž`dc`]Wm`UbX`h`Y`fYU`]m
cZXYj`Y`cda`Ybhk`]h`Ub`Ya`d`Ug]g`cb`h`Y`W`U`Yb[`Yg`ZU]b[`]c`W`W`ca`a`i`b]h]Yg`]b`XYj`Y`cd]b[`]Wci`b]f]Yg"
H\Y`Wci`fgY`V`YbXg`h`Ycf]Yg`c`Z`X`Y`j`Y`cda`Ybhk`]h`h`Y`fUd]X`mYI`d`UbX]b[`]X]gW]d`]bY`c`Z`di`V`]Wdc`]Wmhc
YbUV`Y`mci`hc`YI`Ua`]bY`UbX`YI`d`U]b`h`Y`fU]h`ž`Zc`fa`]UbX`d`U]h`f`bg`c`Zgc`W]c!YWcbca`]WUbX`Ybj`]fcb`a`YbH`
XYj`Y`cda`YbhW`U`Yb[`Yg`UbX`c`ddc`f`i`b]h]Yg"]mci`k`]`YI`d`c`fY`h`Y`]bZi`YbW`g`i`dcb`h`g`d`U]h`f`b]b[`]UbX`h`Y`
fYgdcbgY`Vm`c`W`W`ca`a`i`b]h]Ygž`ghU]h`cf[`Ub]gU]h]cbg`UbX`ch`Yf`]bgh]h`h]cbg"]h`Y`Wci`fgY`k`]`U`gc`]bWm`XY

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F YgYUfW`DUdYf`) \$i	%/G\$, #&\$&\$`\$). \$\$`DA	%z&Z
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W\ccg]b[`mci f`ck b`ei Ygh]cbL`H\Y`dUdYf`]g`i d`hc`" \$\$\$`k cfXg`]b`UXX]h]cb`hc`fYZYfbWg`C F`mci `Uj Y`hY
cdh]cb`cZ\Uj]b[`U`HJ_Y`ca Y`hYgh]bghYUX`"H\Y`hU_Y`ca Y`hYghk]`[c`Zcf`Z] Y`XUmgZ`UbX`mci`bYXX`hc`k f]hY
h`fY`g`cfhYggUm] f`\$\$\$`k cfXg`dYf`g`cfhYggUmL`H\Y`ei Ygh]cbg`k]`VY`fY`YUgYX`cbY`XUmVYZcfY`hYgh
ghUf]g`"K f]hYb`ZYXVUW`UbX`U`a Uf`_k]`VY`dfcj]YX`k]h]b`&k YY_g`cZgi Va]gg]cb"

Gi Va]gg]cb`bchYg.5`UggYgga Ybh]a i ghVY`gi Va]hYX`Y`YWfcb]WJ`mcb`mz`h`fci [\ `hY`fY`Yj Ubh
UggYgga YbhHi fb`#`d`c`f`h`]"b`A`ccX`Y"

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*\$\$\$`k cfX`fYZYW]j Y`YggUmVUgYX`cb`WUgg`a UHf]U`gZ`fYUX]b[gZ`UbX`h`hc`f]U`X]gW`gg]cbg`"K f]hYb`ZYXVUW`
UbX`U`a Uf`_k]`VY`dfcj]YX`k]h]b`&k YY_g`cZgi Va]gg]cb`"K f]hYb`ZYXVUW`UbX`U`a Uf`_k]`VY`dfcj]YX`
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H\Y'5i ghfU]Ub'; cj Yfba Ybh\Ug'a UXY'U'WU`Zcf'gi Va]gg]cb'Ug]h]g]b'hY'dfcW'gg'cZfYj]Yk]b['hY
ZcfY][b'U]X'dc`]Wm' b'U'ga U`[fci d'z'mci 'k]`k cf_'hc[YhYf'UbX'XYj Y'cd'U'h'fYY!dU[Y'U]X'dc`]Wm'fYj]Yk
gi Va]gg]cb'VUgYX'cb'mci f'[fci d'g'dc`]Wmidcg]h]cb"'Mci 'k]`VY'U`cWUHYX'cf'gY'Zbca]bUHYX']bhc'U'[fci d
k]h'gdYV]ZWdc`]Wm]bhYfYghg'UbX'U[YbXUg"'Mci 'WUbi'gY'6'UW'VcUfX'7c`UVcfUhj' YZ'Ncca 'cf'XYg][bUHYX
A ccX'Y'Zcfi a'g'Zcf'mci f'[fci d'g'X]gW'gg]cbg'UbX'k cf_]b['hc[YhYf'"K f]hYb'ZYXVUW'UbX'U'a Uf_'k]`VY
dfcj]YX'k]h.]b'&'k YY_g'cZgi Va]gg]cb"

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5 HfYbXUbW F Yei JfYa Ybfg

Gh XYbfg UfY gfcfb [mYbWci fu[YX hc UHfYbX U WUggYg UbX fYj]Yk YWfi fY fYWcfX]b[g"

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K YY_% '%>i bY!') '>i bY	K YV	<p>ϑfrcXi W]cb. C f"K \Uh]g'8Yj Y'cda YbhDc`]Wm3</p> <p>K \miXc`k Y`gh Xmi]bHfYbU]cbU`XYj Y`cda Ybhdc`]Wm3 <ck `UFY`dc`]WYg`XYg][bYX`UbX`k \UhUfY`hAY`Xfj] Yfg UbX`]bZi YbWg`hUhid`g\`Zc`f`dc`]WmWUUb[Y3`<ck `Xc \]ghcf]WU`UbX`WcbHfYa dcfUfmZUWcf`g`gi W\ Ug`W]a UHf WUUb[Yžf]g]b[`]bYei U`]hYgžWUUb[Y`cZbYk`k cfX cfXYf`UbX`[`cVU`dUbXYa]Wg`g\UdY`XYj Y`cda Ybh dc`]WYg3`8c`k Y`bYX`dc`]WYg`hc`\Uj Y`dfc[fUa g UbX`dfc YWgž`cf`Ug`8Uj]X`A cggYUg_YXž"8c XYj Y`cda Ybhdc`]WYg`[i]XY`dfc YWgž`cf`Xc`hYm gYfj Y`Ug`Y[]hja UWmZcf`]bHfj Ybhcb3"K Y`k]` YI d`cfY`hAYgY`ei Yghcbg`Ug`k Y`Ug`[c`cj Yf`hAY Wci fgY`ci h]bY`UbX`UggYgga Ybfg"</p>
	Hi hcf]U`	<p>C b`]bY`hi hcf]U`k]`VY`cZYfYX`YUW`H\i fgXUmUh* da "H\]g`]g`j`c`i`bUfmUbX`k]`bchVY`[fUXYX"6i h]h]g`\][\`mfYWca a YbXYX`Zc`f`gh XYbfg`hc`dUfh]WdUHyž Ug`]hcZYfg`cddcfi b]hmhc`Ug`_ei Yghcbgž`Wca a Ybfg UbX`X]gW`gg]cbg`cb`hAY`k YY`_fj`hcd]W</p>
K YY_&.`;`>i bY!`%& >i bY	K YV	<p>A i`h]UHfFU`C f[Ub]gU]cbg`UbX`8Yj Y`cda YbhDc`]Wm</p> <p>H\]g`k YY`_k]`dfcj]XY`U`\]ghcf]WU`UbX WcbHfYa dcfUfm`cc`_Uha i`h]UHfFU`cf[Ub]gU]cbgž gi W\ Ug`hAY`I b]hYX`B U]cbgž`K`cfX`6Ub`ž ϑHfYbU]cbU`A cbYUfm: i bXž`5g]U`8Yj Y`cda Ybh 6Ub`žVi hU`gc`cf[Ub]gU]cbg`Zca`hAY`; `cVU`Gci h gi W\ Ug`hAY`5g]Ub`ϑZUgfi Wfi fY`ϑj Ygra Ybh 8Yj Y`cda Ybh6Ub`_f5`=86tž`6F`=7g`6Ub`_K]h]bWfYUg]b[`V]UHfFU`dUfhbYfg\]d`]b`ZcfY][b`U]XžXcYg a i`h]UHfFU`cf[Ub]gU]cbg`gh`Uj Y`U`fc`Y`UbX]bZi YbW`]b[`cVU`dc`]WYg3</p>
K YY_`.`.%`>i bY!`%` >i bY	K YV	<p>8Yj Y`cda YbhDc`]WYg`@YhUbX`F][\h</p> <p>H\]g`k YY`_žk Y`k]`YI d`cfY`hAY`fc`Y`UbX`]bZi YbW`cZ dc`]h]WU`]XYc`c[]Yg`]b`XYj Y`cda Ybhdc`]Wma U_]b[UbX`]a d`Ya YbU]cbžV]UHfFU`Xcbcf`dc`]h]Wgž`hAY UXj cWUWmigdUW`Zcf`WUUb[Y`k]h]b`dc`]h]WU`m gYbg]h] Y`UbX`j`c`Uh`Y`WcbHfY`hgž`Ug`k Y`Ug`WUgY gh X]Yg`Zca`X]ZYfYbhWci bhf]Yg"</p>

<p>K YY_(. :&&'>i bY!'&* >i bY</p>	<p>K YV</p>	<p>; YbXYf'jb' bHf'fbUhc'bU''8Yj Y'cda YbhDc'jWYg 5VW]Yj]b['[YbXYf'Yei U']mUbX'↑ gh]W']b'['cVU' XYj Y'cda Ybh\Ug''cb['VYYb'fYW' [b]gYX'Ug'j]U' Zcf gi ghU]bUV'Y'XYj Y'cda Ybh' < ck Yj Yfz'WU''Yb[Yg fYa U]b'Zcf'[YbXYf'hc' VY'W'bg]XYfYX'a YUb]b[Z ''mVm Xcbcf'g'UbX'dc'jWna U_Yfg''H\]g'k YY_žk Y'k]' X]gW gg'k \m[YbXYf']g'ja dcfU'bhžk \UhUfY' hY' _Ym ghfU'Y []Yg'Zcf'[YbXYf'hc' VY']bh' [fU'YXZ'UbX'k \YhYf "Zc'ck]b['hY'a cbYm''WUb' VY'i gYZ']']b'a YUgi f]b[['cVU'dfc[fYgg'cZ[YbXYf'UbX'XYj Y'cda Ybh'</p>
<p>K YY_) :.&- ' >i bY!' ' >i 'm</p>	<p>K YV</p>	<p>Gi ghU]bUV'Y'8Yj Y'cda Ybh; cU'g' J]g]cbUfm 6'i Ydf]bhcf'Dfc'YWh' bX]W]hc'fg3 H\Y'G8; g'k YfY'a YUbh'hc' VY'hY'Vc'Xžj]g]cbUfm gi W'ggcf'cZ'hY'A]'Ybb]i a '8Yj Y'cda Ybh; cU'g fA'8; g'žk \]W'k Ug'W'h]WgYX'Zcf'UW_]b[']b'W'cbW'Yh']a d'Ub'fU]cb'UbX'[i]XYg''K]h' &' %]bX]W]hc'fgž'hY G8; g']g'a YUbh'hc' VY'U'V'i Ydf]bhZcf'['cVU' gi ghU]bUV'Y'XYj Y'cda YbhUbX'hc''Yzhc'cbY'VY\]bX" 6i h'↑ gh'ck' a i W']bZi YbW'Xc'hY'G8; g'\Uj Y']b hY'gdUW'cZ]bh'fbU]cbU''XYj Y'cda Ybhdc'jWYg3 K]h' &\$' '\$'5 [YbXU'Zcf'Gi ghU]bUV'Y'8Yj Y'cda Ybh 'Ygg'h'Ub'%'\$'m'YUfg'Uk Umž'h']g'k YY_'k Y'k]' 'YI Ua]bY G8; g' W'cbf]Vi h]cbg'hc'XYj Y'cda Ybhdc'jWYgž']hg W'h]Wg'UbX'k \UhWUb'VY'XcbY'hc'Ybgi fY'hY'j]g]cb']g cb'fUW'."</p>
<p>K YY_*. '* >i 'm! '%\$ >i 'm</p>	<p>K YV</p>	<p>F]g]b[' ; 'cVU''8cbcf'gžA'cj Yfg'UbX'G\U_Yfg'cZ'hY 8Yj Y'cda YbhDc'jWn' < cf]ncb 7 \]bU'\Ug'VYYb'\U]YX'Ug'hY "bYk " Xcbcf/ \ck Yj Yfz'7 \]bU'\Ug'VYYb' []j]b['U]X'g]bW'UbW'Ybh h]a Yg''H\]g'k YY_ž[i Ygh'YWh' fYf'8f'DUhf]W' ?]Vm Z'ca 'hY'5i ghfU']Ub'BU]cbU''I b]j Yfg]m'k]''hU' UVci h'7 \]bU'g'fc'Y'Ug'['cVU''Xcbcfž']hg'fc'Y']b g\Ud]b[' ['cVU''XYj Y'cda Ybhdc'jWYg'UbX'dfUW]W'gž Ug'k Y''Ug'U'a i W'cj Yf'cc_YX'a'cj Yfg'UbX'g\U_Yfg]b'hY''UbXgWUdY'cZXYj Y'cda Ybhdc'jWn' hY d\]Ub'h'fcd]WZci bXU]h]cbg'gi W'Ug'; U'f'gž F'cW_YZ''Yf'UbX': cfX"</p>
<p>K YY_+. '% >i 'm! '%+ >i 'm</p>	<p>K YV</p>	

<p>K YY_ ; . & \$ ' > i ` m ! ' & (' > i ` m</p>	<p>K YV</p>	<p>Dc`]Wm5Xj cWUWm : fca ; fUggfcchg'hc'hY DUF]Ua Ybh</p> <p>Bcb! [cj Yfba Ybhcf [Ub]gUhc]cbg'fB ; C gŁždc`]Wm UXj cWUWgžUWj]ghg'UbX'hY`]_Y'cZr b'↑ [['Y'U'Z]bY VU'UbW'VYtk Yyb fYdfYgYbh]b ['hY'j]Yk g'cZhY Wca a i b]miUbX'j i `bYfUV'Y' [fci dg'UbX'gdYU_`fci h hc'dck Yfž'hc'Yi YfW]g]b ['X]d'ca UWmUbX'WU i h]cb'k \Yb XYU]b ['k]h]bX]ZYfYbhcf'Yj Yb `cgh'Y [cj Yfba Ybhg" H\]g']g'dUfh]W'Ufmi hY'WUgY'Zcf dc`]h]W'`mgYbg]h] Y']ggi Yg'gi V\ Ug' \i a Ub'f] [\hgž gYi i U'UbX'fYdfcXi Wj Y' \YU'hž'UbX'W]a UH V\Ub [Y" H\]g'k YY_žk Y'k]`Yi d'cfY'hY'Wca d'Yi]hYg cZdc`]WmUXj cWUWm]b'hY'gdUW'cZ]bhYfbUhc]bU' XYj Y'cda Ybh"</p>
<p>K YY_ - . & + ' > i ` m ! " % > i ` m</p>	<p>K YV</p>	<p>< i a Ub]hUf]Ub'Dc`]WmUbX'DfUW]W</p> <p>K \Uh]g' \i a Ub]hUf]Ub'dc`]WYg'fY'Uh]cbg\]d'hc]bhYfbUhc]bU'XYj Y'cda Ybhž'UbX']g']hZYI]V'Y'Ybci [\ hc'UXUdh'hc'hY'WcbghUbhmiV\Ub []b ['UbXgWUdY'cZ \i a Ub]hUf]Ub'g]h Uh]cbg3 <ck 'Xc' ['cVU'ži b]j YfgU' \i a Ub]hUf]Ub'dc`]WYg'fUbg'UH']bhc'`cWU'WcbhYi hB</p>
<p>K YY_ % \$. " ' 5i [i gh ! + 5i [i gh</p>	<p>K YV</p>	<p>K fUdd]b ['l d</p> <p>H\]g'k YY_`k]`VY'U'fYZYW]cb'cb'hY'hd]Mg'Wcj YfYX h'fci [\ci h'hY'hYfa žk]h'hci [\hg'cb'hY'ja dUW'hcZ dc`]WmUbX'Xcbcf'fYbXg"</p>

F Ygci fWg

DfYgWf]VYX`F Ygci fWg`

5`hY`k YY`mfYUX]b[g`UbX`dfY!fYW`fXYX`YVW`fYg`k]`VY`Uj U]UV`Y`Zcf`Xck b`cUX`Zca`A ccX`Y`

F YWca a YbXYX`F Ygci fWg

7ci fgY`9j U`i Uh]cb`UbX`8Yj Y`cda Ybh

Gh XYbhZYXVUW`]g[U`hYfYX`dYf]cX]WU`mi g]b[žUa cb[`chYf`a YUbgžI`BGK`'g`a n9I`dYf]YbW`dfcWgg`
 bZca U`ZYXVUW`UbX`WUgg![YbYfUH`X`ZYXVUW`UfY`]a dcfUbh`5`Vf]YZgi fj Ymk]`VY`WcbXi`WYX`Ufci bX
 hY`a]XX`Y`cZ`hY`gYa YghYf`tc`]XYbh]ZmUfYUg`cZgh XYbh]ggi Yg`5bU`ng]g`cZZYXVUW`k]`]bZca`hY
 fYUgcbUV`Y`UX`g`ha Ybh`cZ`W`i fgY`W`cbh`bh`UbX`XY`]j Yfmk`YfY`dcgg]V`Y`"Gh XYbhZYXVUW`]g`hU`Yb
 gYf]ci g`nž`UbX`W`cbh]bi U`]a dfcj Ya Ybhg`UfY`a UXY`tc`hY`W`i fgY`VUgYX`]b`dUfcb`gi W`ZYXVUW`"7`Ub[Yg
 tc`hY`W`i fgY`k]`VY`]bfcXi`WYX`tc`gi VgYei YbhW`c`f`g`cZgh XYbhg`hU`]b[`hY`W`i fgY`"

7cbgfi Wj] Y`ZYXVUW`]g[fYUhmUddfYW]UH`X`"K`Y`U]a`tc`W`cbh]bi Y`tc`]a dfcj Y`UbX`i`dXUH`hY`W`i fgY`/d`Um
 gca Y`dUfh]b`Y`d]b[`i`g`tc`Xc`gc`"G`UfY`mci f`ZYXVUW`žmci f`fYgci fWgžmci f`]XYUg`"D`UmU`dUfh]b
 ZW]hU]b[`hY`YUfb]b[`cZU`a Ya VYfg`cZ`hY`WUgg`"

Gi Va]gg]cb`cZ5ggYgga YbhiHUg_g

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

≠mci`YbWci bHYf`U`dfcV`Ya`k` \Yb`UHYa` dh]b[`hc`gi`Va`]hmc`i`f`Ugg][`ba`YbhiHfci`[`\`Hi`fb]h]bzd`YUgY`
HY`Yd\cbY`9I`HYfbU`Gi`ddcfhcb`-`,`)`"``"``%cf`Ya`Uj`h`Ya`icb`YI`HYfbU`HY`hgi`ddcfh4`i`bgk`"YXi`"Ui`""Gi`ddcfh`
\ci`fg`UfY`,`.\$\$Ua`-`-%\$.\$\$da`icb`k`YY`XUmg`UbX`-`.\$\$Ua`-`).\$\$da`icb`k`YY`YbXg`f1`*)`XUmg`U`mY`Uf2`≠mci`
UfY`i`bUV`Y`hc`gi`Va`]hmc`i`f`Ugg][`ba`YbhiXi`Y`hc`U`Zji`hk`]h`Hi`fb]h]b`mci`ia`UmUdd`mZc`f`Ub`YI`HYbg]cbz`Vi`hmc`i`
a`i`ghfYhU]b`mci`f`h]W`Yhbi`a`VYf`Zca`9I`HYfbU`Gi`ddcfhU`cb[`k`]h`Ubmc`h`Yf`fY`Yj`UbhXcW`a`Ybhtg`k`hc`
]bWi`XY`Ug`Yj`]XYbW`hc`gi`ddcfhmc`i`f`YI`HYbg]cb`Udd`]W]h]cb`≠mci`Ya`Uj`9I`HYfbU`Gi`ddcfhmc`i`k`j`
Ui`hca`U]WU`mifYW]j`Y`U`h]W`Yhbi`a`VYfz`Vi`h]Zmci`HY`Yd\cbY`mci`k`j`bYYX`hc`gdYW]Z]WU`mUg`Zc`f`cbY`
Hi`fb]h]b`U`gc`dfcj`]XYg`i`dXUH`g`cb`h`Y]f`gmgh`Ya`g`hU`h`g`cb`Hk`]hYf`"

;`YbYfU`mz`UggYgga`YbhiUg_g`a`i`ghVY`gi`Va`]hYX`Y`YWfcb]WU`mj`]U`Y]h`Yf`Hi`fb]h]b`cf`U`A`ccX`Y`
Ugg][`ba`Ybhi`h`]bghU`bW`g`k`\YfY`h`lg`]g`bchidcgg]V`Yz`]hk`]`VY`ghU`h`X`cb`mci`f`Wci`fgY`g`A`ccX`Y`g]h`k`]h`
U`HYfbU]h]`Y`gi`Va`]gg]cb`XYhU]g`"

:`cf`]bZcfa`Uh]cb`cb`\ck`hc`gi`Va`]hUgg][`ba`Ybhtg`cb`]bY`j`]U`A`ccX`Y`.\`hhdg`#gh`XYbhi`bgk`"YXi`"Ui`Ack`!
gi`Va`]hUgg][`ba`Ybhta`ccX`Y`"

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

