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1-G/\*]&\$)F('8'&G2\$5,)1\*\$EU\$.,-G\$(A/\$;,)&&,\$--(&\$.-\$(A/\$5)'49\$4'8/&\$.-\$.1-G/\*\$  
)5\$FA'45,/2\$./)FA'\*,\$'\*(-\$(A/\$/\_F4E&8/\$F-,,5&\$.-\$WG)4/&(/)G\$U-4'('F)4\$  
)5\$ 4/;)4\$ '\*&('E('-\*&2\$ (-\$ 'GU)F(\$ -\$ F-\*&('E(VG)B'\*;\$ )5\$ F-\*&('E('-\*  
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F4E5'\*;\$:)\*)5)]&\$:-\*&('E('-\*%F(\$.-\$#Pd\$)\*5\$(A/\$:-\*&('E('-\*\$.A/\$J/UETV  
4'F\$.-\$N-E(A\$%.,'F)\$.-\$.#\$\$6\*/&49\$.-FE&/5\$1-G/]&)F('8'&G\$5E,'\*;\$\*V;  
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W&'5/T),X\$\*'\$G)\*&(/)G\$)FF-E\*(&\$.-\$(A/&/\$.-,G)(8/\$U,'-5&\$'\*\$(A/\$/8-4E('-\*\$  
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1-G/\*]&\$ 4.E/\*(')4\$ F-\*('TE('-\*&\$ 'S(A-&/\$ '\*/&/49\$ U-4'('F)4\$),/\*)&\$ T-(A\$  
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%.,'F)\*\$)U),(A/5\$1)&\$F-\*&('E('-\*449\$/G\$)(\$5\$)\*(A/\$:)\*)5')\*\$F-\*&(' EV

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<sup>5</sup>\$+/30(0,0(+!/&B\$@#Pd!b2\$T/\*;\$NFA/5E4/\$c\$-.(A/\$:\*)5)\$%F(\$#Pd!\$a7=e=b2\$F=##\$sA/,/\*).(,2\$(A/\$  
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(E('-)4\$ FA)\*;/&\$ 1./\$ A),549\$ -\*\$ (A/\$ &)G/\$ &F)4/\$ ..\$ AEG)\*\$ EUA/)8)42\$ N-E(A\$  
%,,'F)\$)\*5\$-(A,\$\*/149\$\*5/U/\*5/\*(\$&())(&\$),/\$)44\$/\_)GU4/&\$-.\$(A/\$U,-;,/&&'-\$  
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3C>N%M\$ .-E\*5'\*;\$ F-\*./,\*F/\$ -\$ %U,'4\$ #g2\$ #P^"\$ )5-U(/5\$ (A/\$ M-G/\*](&\$  
:A),(/,\$1'(A\$(A/\$.-44-1'\*;\$U,/)GT4/Q\$

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1-G/\*](&\$&/4.VA/4U\$'\*'('8/&=\$\$6\*\$\*(A/\$&(E5/\*(\$G-8/G/\*(2\$'\*F,/) &!\*;\$ \*EGT/,&\$  
-\$9-E\*;\$1-G/\*\$'5\*('./5\$)&\$./G'\*&(&2\$)\*5\$)\$(A/\$F-GGE\*'9\$/42\$1-G/\*\$  
1/,/\$-,;)\*)'i\*;\$),-E\*5\$'&&E/&\$&EFA\$)&\$,/U,-5EF('8/\$)\*5\$.)G'49\$A/4(A2\$'\*F4E

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(A',\$FA'45,/\*<sup>45</sup>\$

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NEFA\$ G/5')\$ F-8/); /\$ A'/; A(//\*5\$ UET4'F\$ )1), /\*/&&2\$, ./&E4(''; \$ '\*\$V  
F, /)&/5\$UET4'F\$, /&U-\*&8/\*&&(\$-(A/\$F-\*&('E(-\*)4\$\*/;-(')(-\*&2\$)\*5\$)&\$#PdR\$  
F)G\$/(-\$)F4-&/2\$FA)\*; /&\$(-\$(A/\$F-\*&('E(-\*)4\$/(\_(\$1/, /\$T/\*; \$5'&FE&&//5\$  
\*/9\$e-G/\$, /8'/1/5\$(A/\$,/F-, 5\$-\*\$\*- \* V-8/, \*G/\*()4\$-, ;)\*i)(-\*&\$(A)(\$G)5/\$  
U, /&(\*)(-\*&(\$-(A/\$NU/F')4\$ <-'(\$:-GG'((//)\$)\*5\$.-E\*5Q\$ ?-&(\$)((/\*(-\*\$1)&\$  
U)'5\$(-\$:4)E&/\$#^\$===\$M-G/\*\$1)\*(5\$(A/\$&F('-\$, /\*)G/5\$fCDE)4'(9\$J'; A(&2f\$(-\$  
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('-\*\$#^\$-. \$(A/\$U, -U-&/5\$ :A), (/,\$-. \$J'; A(&\$)\*5\$3, //5-G&2\$&4)(/5\$.-, \$/\*(, /\*FAV  
G/\*(\$ '\*\$ (A/\$ /\*/1\$ F-\*&('E(-\*= \$K\*/\$ -. \$(A/\$G)Y-, \$F-\*F/, \*\$), '&!\*; \$ ..,-G\$ (A/\$  
&, !\*; \$ -. \$1-G/\*] &\$4- && /& E\*5/, \$(A/\*\$/%- (%/!Z())!+=!S(<\*03

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U-&/5\$ &=\$ #^\$ (/\_(2\$ ((A/\$)9\$ ;/\*,)4\$ F,/5'(/5\$ (A/\$ ('4/\$ FA)\*;/\$ V\$.,-G\$ WH-  
5'&F,'G')\*(-\$J';A(&X\$(-\$XCDE)4'(9\$ J';A(&XX\$,'G),'49\$(-\$(A/\$:)\*)5')\*\$%58V  
&-,9\$:-E\*F'4\$-\$(\$A/\$N())E&-\$M-G/\*\$a:NM2\$\*-1\$5/.E\*F(b\$(A/\*\$FA)',/5\$T9\$  
(A/\$4)(\$/>-,&\$%\*5/,&-\*2\$1'(A\$?),9\$CT/,(&\$)F('\*,\$)&\$4/;)4\$F-E\*&/4\$3\$IA/\$  
:\$%:NM\$ A)5\$ )55,/&&/5\$ (A/\$ NU/F')4\$ <-\*(\$ :-GG'((//)\$ \*\$ (A/\$.)44\$ -.\$ #PdR2\$ )\*5\$  
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:\$%:NM=\$c,E'&/S T9\$&EFA\$)((('E5/&\$)\*5\$(A/),\$C\$4-&&/\$E\*5/,\$(A%/%-(%/  
Z())!+=!S(<\*0\$(A-E&)\*5&\$-.1-G/\*\$),,'8/5\$!\*\$K((1)2\$:)\*)5)]&\$F)U'()4\$F'(92\$. -,\$  
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U,-8'\*F')4\$4/;'&4)(E,/=&\$IA/\$1-G/\*]&\$F-\*&('E(-\*)4\$4-TT9\$'\*\$\$(A/\$F)U'()4\$/TT/5\$  
)\*5\$ &E,;/5\$ (A,-E;A-E(\$ #Pd#2\$ )&\$ /4/F(/5\$ .5/,)4\$ )\*5\$ U,-8'\*F')4\$ ,/U,/&)\\  
('8/&\$ 1/,/T/&'/;/5\$ T9\$ F-\*F,/\*/5\$ 1-G/\*\$ 8-/,&\$ '\*\$ (A' ,\$ A-G/\$ ,5'\*;&2\$ )\*5\$  
F,-15&\$ -.\$ )\*:9\$ 1-G/\*\$ F- \*..,-\*(/5\$ U,-8'\*F')4\$ ;-8/,\*G/\*(\$ 4/)/5/,&\$ aU, /V  
G'!,&b\$ '\*&'5/\$ )\*5\$ -E(&'5/\$ (A' ,\$ 4/;'&4)('8/\$ TE'45'\*;&2\$ E\*('4\$ (A/\$ ('5/\$ (E,/\*/52\$  
(A,/T9 \$4)9'\*;\$F4)'G\$.-,)\$U4)F/\$'\*\$:)\*)5')\*\$4/;)4\$A'&(-,9\$.,,\$1-G/\*]&\$F-\*&(   
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,';A(&\$;E,)\*(//\$1)&\$5/&'\*/5\$(-\$1-,B\$1' (A\$(A/\$/DE)4'(9\$,';A(&\$),('FE4)(/5\$'\*\$

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&ET&()\*(8/\$/DE)4'(979\$

IA\$/ (A',5\$)\*\*'8/,&),9\$-. \$(A/\$ \*/1\$ :)\*5')\*\$ F-\*&('E('-.\*2\$ %U,'4\$ #g2\$ #Pd^2\$  
1)&\$)4&-\$(A/\$.',&(\$5)9\$-\*\$1A'FA'\$(\$1)&\$U-&&'T4/\$(-\$E&/T-(A\$/DE)4'(9\$U,-8'&'-\*&\$  
-. \$(A/\$ :A),(/\$ a&&=#^\$ )\*5\$ !db=\$ %(\$ (A'&\$ .',&(\$ -UU-,(E\*' (92\$ 0C%3\$ 4)E\*FA/5\$



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(A/\$:)5)\*\$c'44\$-.J';A(&\$'\*\$#Pg\2\$5'&FE&&/5\$/),4'/\$'\*\$(A'&\$FA)U(\b2\$5  
&F,T/5\$(A/\$NEU,/G/\$:-E,(\$5/F'&-\$)2

v\$)\*\$-UU-,(E\*(9\$.-,\$(A/\$AA/&(\$F-E,(\$.-.(A/\$4)\*5\$(-\$,/5,/&&\$A'&(-,'F\$  
)\*5\$-\*,-\*;\$5'&F,'G')(-\*\$);)\*&(\$%T-,;')4\$1-G/\*\$E\*5/\$(A/\$ ./.4  
-(%/!&B@\$6\$)G\$/&U/F')449\$5')UU-\*/(5\$(A)(\$A/\$F-E,(\$A)&\$5'&G'&&/5\$(A/\$  
)UU)/4\$1'(A\$F-&(\$A&\$UE\*&A/&\$(A/\$4'();\*(\$.-,\$T,;'.;')\*\$)F('=-\$)

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5/G)\*5&-\$\*\$1-G/\*\$(-\$U4)F/\$,)F')4\$/DE)4'(9\$)\*5\$FE4(E,)4\$,(.)5'(-\*&)(\$(A%\$U'  
\*)F4/\$.-.\$U,'-,'/(&2\$5/5'&F,T/52\$ )&\$)WU)(FA1-,B\$DE'4(\$,\$WY&X9\$ \$\$IA/\$  
(.)\*&'(-\*\$(-\$5/G-F,)F9\$'\*\$N-E(A\$%,.'F)\$5'5\$\*(-\$4/5\$(-\$(A/\$G),;')4'i)(-\*\$.-.  
1-G/\*]&/\$/DE)4'(9\$'&E/&2\$)(\$4/)&(\$-\*\$U)U,/2\$)&\$A)&\$A)UU/\*/\$5'\*\$&-\$G)\*9\$-(A/\$  
F-E\*(,'/=&\$M-G/\*]&\$)F('8'&G/\*&E,/5\$(A)(\$/DE)4'(9\$1)&\$U,-(/F(/5\$'\*\$A/\$F-  
&('E(-\*=IA/\$F,/-\*-\$-\$(A/\$M-G/\*]&\$H)(-\*)4\$:-)-4'(-\*\$aMH:b\$'\*\$#PP!2\$4'B/\$  
H%:\$'\*\$:)\*)5\$2\$U,-8'5/5\$)T,-)5\$T)&/5\$-,-;)\*)i)(-\*)4\$8/A'F4/\$.-,\$1-G/\*\$(-\$  
,('FE4)(\$F-\*&('E(-\*)4\$,.U,/&(\*)(-\*2\$'\*\$)55'(-\*\$(-\$(A/\$%H:=^\$MA'4/\$&E/  
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1'(A'\*\$ (A/\$%H:2\$ (A/\$ MH:]&UE,U-&\$1)&\$(-\$F-\*&E4(\$1'5/49\$1'(A\$:,)&,&--(&\$  
1-G/\*\$)F,-&&\$(A/\$F-E\*,(\$9(-\$5).(\$(A/\$M-G/\*]&\$:A),(/,\$.-\$CDE)4'(\$M-G/\*\$  
1/,/\$G-T'4'i\*,\$)F,-&&N-E(A\$%,.'F)\$(-\$FA)44/\*,\$)\*9\$)((/GU(\$(-\$G),;')4/\$  
(A/G2\$ (A/,5/(/,G')(-\*\$./5'\*,\$1'\*(-\$U,-F/&&/&)F,-&&U-4'('F)4\$ U),(9\$)\*5\$  
,)F')4\$4/\*&=\$H:\$5/4/;)(/\$5/G)\*5/5\$(A)(\$G-,\$1-G/\*\$T/\$UE(\$'\*(-\$(A/\$\*V  
8/\*(-\*\$.-,\$)S>/G-F,)(\$F\$N-E(A\$%,.'F)\$a:K>CN%\$U,-F/&&2\$(A/\$F-GG'&'-\*&\$  
(A)(\$1,/\$(A/\$\*/;-')(\*;\$T-5'/ &\$.-,\$(A/\$F-\*&('E(-\*\$  
:K>CN%\$6\$T/;)\*\$1'(A\$)\$U4/\*),9\$&/&&'-\*\$/>/F/GT,\$!R\$#PP#2\$)4G-&(\$  
(1-\$9/),&\$).(/,\$(A/\$E\*T)\*\*\*,\$.-\$U-4'('F)4\$U),(/&\$)\*5\$(A\$/4)/&/\$.-\$H/4&-\*  
?)\*5/4)=\$ IA/\$ .,&(\$ &&'-\* \$4)&/(5\$ )\$ ./1\$ 5)9&2\$)\*5\$ 1-,B'\*;\$ ;,-EU&\$ 1,/\$

92\$((UQSS111=\*\$1)FAD=-..S/\*S5-FEG/\*(&S+.&&J/4/)&./?F68-> /F'&-\*H-8` \RP=U\$.

%FF/&&5\$?),FA\$#!\$!R#R=\$s/GUA)&&\$)5\$5t

93\$c=\$c-ii-4'2\$%\$>(3@!:1@(/(3@!/!-9,0\*!&=(B%/!2\$P\$3K7JH%0\$K3\$NK7I[\$%3J6:H\$  
NI7>6CN2\$\*\*\$CH@CH>CJ6H@\$I[C\$+K0616:0%\$%\$C\$%\$NK7I[\$%3J6:H\$%NC\$NI73,2\$%!  
)(\$\\$

94\$NA',//\*\$])&&G2\$HC@%I6H@\$N+.%:CNQ\$MK?CH\$6H\$NK7I[\$%3J6:;%N\$IJ%HN6I6KH\$IK\$  
>C?K:J%:Z\$aIRR!b2\$)(\$)=>3C>N%M\$5'T)\*5/5\$)(\$A'&\$('G/\$)\*5\$(A/\$G/GT/,&.-FE&/5\$)F('8'(&\$  
-\*\$(A/\$MH:\$

95\$;(- =\$N/(\$)4=&-\$;/\*,.)449\$NA',//\*\$])&&G2\$MK?CH]N\$KJ@%H6h%I6KHNS%H>\$>C?K:J%:Z\$6H\$  
NK7I[\$%3J6:H%Q\$:KHI@%I6H@\$%7|[KJ6IZ\$aIRR' \$=

96\$3,-)\$E&./&-E,F/-\*\$(A/\$FA,-\*-4;-9\$.-\$(A/\$N-E(A\$%,.'F)\*\$F-\*&('E(-\*)4\$8/\*(&\$)\*5\$  
\*/;-')(-\*&&/\$ A((UQSS111=F-\*&E('\*)4F-E,(-.:=i)S(/ (SF-\*&('E(-\*SA'&(-.9=A(G4=\$\$  
%FF/&&5\$)(\$?),FA\$2\$RR#R=

MK?CH]N\$KHNI6I7I6KH%0\$%I6L6N?\$\$H\$%H%>%\$%H\$%I[\$ %&J6:%\$

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"#` \$HICJH%I6KH%0\$CL6CM\$K3\$HNI6I7I6KH%06N? \$Lk07?C\$PQ!\$\$!RRP

IA(\$4),;/49\$)5\$A-F2\$E\*.E\*5/5\$1-G/\*]&\$F-\*&('E(-\*)4\$)F('8'&G\$'\*\$)Y  
 )5)\$5- /&\$\*-(\$F-GU),/\$(-\$(A/\$N-E(A\$%,.'F)\*\$'\*8/&(G/\*(\$\*F-\*&E4())'-\*&2\$F-  
./\*F/&\$)\*5\$F-)4'(-\*\$TE'45'\*,\$)G-\*;\$.1-G/\*\$)F('8'&(&2\$'(/,)(\*,\$1-G/\*]&\$  
(G)\*F'U)('-\$1'(A\$(A/\$4'T/,)(-\$&,(E;:4\$)\*5\$(A\$/,&E4(\*,\$'(\*,'G\$)\*5\$.'))4\$  
F-\*&('E(-\*&.-\$#PP"\$)\*5\$#PP<sup>102</sup>\$

P= :K H:07N6KH\$

\$ W0'8/5\$,';A(&X\$F)\*\$T/\$5/&F,'T/5\$)&\$(A/\$'\*(/,&F(-\*\$.,)F/2\$F4)&&\$Y\*5\$;/  
5/\$'\*\$ (A/\$ F-\*(/(\_(\$.-\$) \$ \*/1\$ F-\*&('E(-\*)4\$ 5/G-F,)F9=\$ IA'&\$ F)\*\$ -\*49\$ T/\$  
)FA'/8/5\$ 1A,/\$(A/\$1-G/\*]&G-8/G/\*(\$A)5\$)\$5/G-\*&,)T49\$'\*4E/\*(')4\$' GV  
U)F(\$-\*\$F,/)('\*\$F-\*&('E(-\*)4\$(/\_(\$2\$F-\*&('E(-\*)449\$/\*(/,/\*FA/5\$\*)('-\*)4\$; /\*V  
5/\$/DE)4'(9\$ G)FA'\*/92\$ \$\*5\$ E\*U,/F/5/\*(/5\$ -UU-, (E\*'(/&\$. -,\$1-G/\*=\$ ?' 4V  
4'-\*&\$. -,\$1-G/\*\$'\*\$ N-E(A\$%,.'F)\$ G-T'4'i/5\$), -E\*5\$(A/\$ M-G/\*]&\$: A),(/,\$.-,\$  
C../F(8/\$ CDE)4'(9\$.'(//\*\$); -k\$(A-E&)\*5&-\$.:)5')\*\$1-G/\*\$1/,/\$&'G'4),49\$  
;48)\*'i/5\$)4G-&(\$(A',(9\$9/),&\$);-=\$M-G/\*\$),/\*-(\$U,/U),/5\$(-,\$'&B\$T/\*:\$4/.(\$  
-E(\$.-\$/\*1\$4/;)4\$-\$U-4'('F)4\$ &9&(/G&\$)\*5\$ F-\*&('E(-\*\$G)B'\*;\$'&\$)\$ U,'F'U)4\$  
G/\*&\$. -\$\*F4E&!\*-\$

\$ IA'&\$),('F4/\$5/-&\$\*-(\$/\_U4-,\$T/9-\*5\$A-1\$1-G/\*]&)F('8'&G\$FA)\*;/5\$(A/\$  
.\*\$)4\$F-\*&('E(-\*)4\$(/(\_(\$.-\$/DE)4'(9\$ \$\*T-(A\$N-E(A\$%,.'F)\$)\*5\$:)\*)5)=\$GV  
U4/&\$. -\$ A-1\$ (A/&/\$ F-\*&('E(-\*)4\$ U,-8'&-\*&\$ A)8/\$ T//\*\$ E/&5\$ (-\$ )FA'/8/\$  
1-G/\*]&/\$/DE)4'(92\$-\$YE&(\$)&\$4'B/492\$-\*(\$2\$(A,-E;A\$A';A\$'GU)F(\$4'(;\*)V\*2\$YE,  
U,E5/\*F/2\$ U-4'('F)4\$ )F('8'&G2\$(\$ GEFA\$ G-,\$ (A,-E;A\$ 5'&FE&&-\$ /A&  
1A,/= <sup>103</sup>\$

<sup>102</sup>\$IA/\$/\*;/5\$,\*\$-.\$(A/\$%H:\$U4)(.-,G\$F)\*\$T/\$&//\*\$'\*\$?)9#PPR\$FA)\*;/&\$(-\$(A/\$%H:\$:-\*&EV  
(-\*)4\$@E'5/4/\*&\$)\*5\$(A/\$F)GU);\*\$8'&-\$.-,\$)M-G/\*]&\$: A),(/,\$'\*\$(A/\$%H\$N)/G/\*(\$-\*\$(A/\$  
CG)\*F'U)('\*\$.-,\$M-G/\*\$'\*\$N-E(A\$%,.'F)2\$WM/\$F)44\$EU-\*\$(A/\$%H:\$M-G/\*w&\$0/);E/(-\$'\*'()/\$)  
F)GU);\*\$.-,\$(A/\$: A),(/,\$'\*8-48'\*\$)44\$-(A,\$&,(EF(E,/&\$. -\$E,\$.,)\*)i)'-\*2\$(A/\$G/GT/,&A'U\$  
)\*5\$&EUU-,(./&\$(A,-E;A-E(\$N-E(A\$%,.'F)=\$IA/\$F)GU);\*\$845\$'\*8-48/\$G'44-\*&\$. -\$1-G/\*\$6  
,/F(49\$\*\$A/\$U,-F/&\$. -\$5//,G\*\*,\$A-1\$(A,\$,\$;A(&\$1-E45\$T/\$U,-(F/5\$'\*\$)\$\*1\$4/;)4\$)\*5\$  
F-\*&('E(-\*)4\$-,5,-\$NEFA\$)\*\$'\*(')('8/\$1'44\$U,-8'5\$/(\$A/\$-UU-, (E\*'(\$-\$&(\$)\*\$/\_)GU4/\$V\$.5  
G-F,)F9\$'\*\$U,)F('F/2\$)\*5\$T/\$)G)Y-,\$)F9\$-\$,&('GE4)(\*;\$1-G/\*\$(-\$T,/)B13 (;), -1 (\$3 (E) 21 () 21 ) 130 3 133B13 (;) -

MK?CH]N\$KHNI6I7I6KH%0%6I6L6N?\$\$6H\$%H%>%\$%H\$7I[\$ %6J6:%\$ "#g  
\$ IA/,/\$'&\$\*-\$5-ET(\$(A)(\$)F)5/G'F\$5'&F-E,&/\$/-\*\$(A/\$5/(,'G/\*(&\$)\*5\$T/\*/.('(\$

\$SHICJH%I6KH%0\$