!"#\$##\$\$\$

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\$ 456789:5;9<=<>?@AB<C<D@ENO5799C5%';FG58?F9@% >H\I<J\###\$\$% K\$L\L# %.G5;M5ENO5799C5E\N..\K!L##0L\$K\$% >B<;5PNQ#\$R\$\#KR0TU\$\$V\&5CCP\#\$R0RL#0W\$TU\\Y7J\1<\\Q#\$R\$\#KR0#LUL\% /0:7FCM?B7CCF;DZ?5799C5M\S[M\

!"#\$%&'()*%

1		
LKR!% %	5	I . $\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $
LK^\$% %	5	+ . %4 M_M5?;5% ' ;FG58?F9@E%>F99?`M8DBE%> . X%Q>?@AB <c<d@s%< td=""></c<d@s%<>
LK^R\ \	%	>B%4%4M_M5?;5%';FG58?F9@%Q&CFFA7C%>?@AB <c<d@% +F;<8P%O<af7c%>?@AB<c<d@% 4F??58979F<;%-F9C5P%a-B5%(5A<d;f9f<;%<%7nfd;f=fa7;9%h9b58%7?%7%';f_m5%>58?<;P% .;%/:6F8FA7C0>B5;<:5;<c<dfa7c%);g5?9fd79f<;%a% 4F85A9<8P%(<c=%g<;% a]789?`58de%="">B%4%</c=%g<;%></c<dfa7c%);g5?9fd79f<;%a% </d;f9f<;%<%7nfd;f=fa7;9%h9b58%7?%7%';f_m5%></c<d@% </af7c%></c<d@%
N		

01%\$2')3/4(.'&'().*%

LK^R0685?5;9X1456789:5;91<=1>?@AB<C<D@EH05799C51';FG58?F9@EH05799C5ENN.X1

- 5; M85[%LK!#%%4F85A9<8%<=%9B5%3 87[M795%>8<D87: ENLK!K0LKKLE%#\$\$R0#\$\$!%>8<=5??<8%5: 58F9M?%?F; A5%#\$LU% >8<=5??<8%?F; A5%LK!K%%7??<AF795%LK!W0LK!K%%7??F?97; %LK^R0!W%[56789: 5; %AB7F8%LK!#0LK!!%A<0[F85A9<8%<=% D87[M795%68<D87: %LK!L0LK!#%%[F85A9<8%#\$L#0#\$LU%[F85A9<8%=%179F<; 7C%/; [<c: 5; %=<8%9B5%2M: 7; F9F9% =M; [5[%6F<%%?9M[@%9<15J6C<85%=57?F`FC%9@%<=%D87[M795%68<D87: %F; %5JF?95; %F7006B5; <: 5; <C<DFA70%6?@AB<C<D@E% LK^K0!\$%%>8<=5??<8%/: 58F9M?%#\$LU%

! "#\$%&%"()#*+(P\\

';[58D87[M795100N);98<[MA9<8@EH.`;<8:7CENdM7CF979FG5N(5?578ABEN>58?<;7CF9@N.[eM?9:5;9EN?5:F;78?N<;% OABFf<6B85;F7N7;[%45685??F<;%)>?@AB<C<D@N<=**<G5N7;[%][5;9F9@EN-

 $\label{eq:constraint} \ensuremath{(\ensuremath{\mathsf{R}}\xspace)} \ensuremath{(\ensurema$

LK^#0LK^R\ 456789:5;9\<=\>?@AB<C<D@EhO59<;\2ECC\&<CC5D5E\3855;?`M8DE\>.X\);?98MA9<8\LK^#0^UP\.??F?97;9\>8<=5??<8\LK^U0^R\\ &<M8?5?\97MDB9\\.`;<8:7CE\0<AF7C\>?@AB<C<D@E\>58?<;7CF9@\-B5<8@E\35;587C\>?@AB<C<D@E\2F?9<8@\7;[\);958;ENW[7@?N6581c55]XM&<09B5876F?9KF;Nc<ND8<M6?EN:7F;N9B5876F?9KF;N<;5XNN);[FGF[M7CN7;[N=7:FC@N9B5876@NM;[58N?M658GF?F<;XN)?@AB<C<DFA7CN5G7CM79F<;?ENC5A9M85?N9<N29M[5;9N;M8?5?EN7995;[5[Nc55]C@NA<;=585;A5?N<;N9B5876@N7;[N95?9F;DXN

 $LKRKP! QOM::: 5881 N BF9`@! >? @ABF798FA! 2 <? 6F97CE! N BF9`@! N BF9`@! (5?578AB'17??F?97;93''' - 87F;5['\F;'' F;958GF5 c F; DI`@!! <= AF7C! 6? @AB < C < DF?93'''); 958GF5 c 58'\F; !'= < C < c 0M6'!?9M[@! <= !!= <8 : 58'! 679F5;9?E! 85?578AB5['\7; ['' 5G7CM795['\6589F;5;9'']; 958GF5 c 58'\F; !'= < C < c 0M6'!?9M[@! <= !!= <8 : 58'! 679F5;9?E! 85?578AB5['\7; ['' 5G7CM795['\6589F;5;9'']; 958GF5 c 58'\F; !'= < C < c 0M6'!?9M[@! <= !!= <8 : 58'! 679F5;9?E! 85?578AB5['\7; ['' 5G7CM795['\6589F;5;9'']; 958GF5 c 58'\F; !'= < C < c 0M6'!?9M['']; 958'']; 958'';$

LKR ! PHQOM : : 588% . [MC94987F;F;D1&5;958E% I 788F5E%H;978F<%Q : 5;97CC@%85978[5[%7[MC92SX%%);0?58GFA51987F;F;D1A<<8[F;79<8X% . C?<%?< : 5%A<M;?5CF;DE%95?9F;DE%7;[%A<;?MC979F<;% c F9B% c 78[%?97==X%

 $LKR^{0}LKR ! P! N 7885; [7C5!); Ale * 707 CC5E!H; 978F< MQ (5?F[5;9F7C198579:5;9!A5;958!=<8!5:<9F<;7CC0![F?9M8`5[!ABFC[85;SN1&BFC[85;SN1&BFC[85;NC1!&578?]] \\ C = 0.5 \\ C = 0$

LKR^PNQOM:: 5881%>5;597;DMF?B5;5%>?@ABF798FA12<?6F97C8h>5;597;DMF?B5;58H;978F<WM .??F?97;9%9<%.??F?97;9%OM658F;95;[5;9%W,F[5<0976F;DK<=MD8<M6%:559F;D?EN85?578ABEN?97==%CF7F?<;B 6?@AB<C<DFA7C%95?9F;DW

LKRRPNQOM: : 585%>5;597;DMF?B5;5%>?@ABF798FA%2<?6F97CX%

- c <1 : <; 9B?\7?\6789FAF67 ; 90<` 258G58\0#U\B<\82\7\[7@\$\ c F9B\9 c <\<9B58\29M [5;9?\<;\7\ : 7JF : M : 0?5AM8F9@\ M;F9\\7C?<1 : <; 9B\<=\\$5?578AB\<; \9B58765M\9FA\A< : : M; F9\\68<D87 : ?\\

4#?>'\$%&'()./%)''/@1.1%-\$2*/

A#\$#L\$\\\>B5;<:5;<C<D@\\7?\=F[5(F9@\9<\6B5;<:5;7P\+<GF;D\`5@<;[\\B5\G7;\+7;5;E\O:F9BE\7;[\\K7B7GF\ [5`795\\\,+&'-#.)/0\\(01'2\\31+"4"*0\\(5\\67\\04\SE\WU#0\WTWE\6M`CF?B5[\<;CF;5\\hMC@\\#E\\#\$\\$\\ !""#\$\\\&\'(\\)'()+,\-.(-./0\\!12....-345

 $\begin{array}{l} \texttt{A\#}\texttt{LUS/c}\texttt{F9B}\texttt{YF}; \texttt{I}-\texttt{B}<\texttt{S}`\texttt{en8}; \texttt{127}; \texttt{5}; \texttt{I}/\texttt{[F9}<\texttt{8}?\texttt{S}\texttt{W}\texttt{k}\texttt{8}\texttt{5}\texttt{79}\texttt{F}\texttt{G}\texttt{F9}\texttt{W}\texttt{7}; \texttt{[\texttt{k}}\texttt{8}\texttt{8}\texttt{5}\texttt{79}\texttt{F}\texttt{G}\texttt{5}\texttt{I}. \texttt{6}\texttt{6}\texttt{6}\texttt{6}\texttt{7}\texttt{A}\texttt{B}\texttt{5}\texttt{W}\texttt{F}; \texttt{12}\texttt{M}: \texttt{7}; \texttt{I}\texttt{0}\texttt{A}\texttt{F}\texttt{5}; \texttt{A}\texttt{5}\texttt{2}\texttt{W}: \texttt{1}, \texttt{0}\texttt{0}\texttt{A}\texttt{5}; \texttt{A}\texttt{5}\texttt{C}\texttt{W}: \texttt{1}, \texttt{1}, \texttt{0}\texttt{A}\texttt{5}; \texttt{A}\texttt{5}\texttt{2}\texttt{W}: \texttt{1}, \texttt{0}\texttt{A}\texttt{5}; \texttt{A}\texttt{5}\texttt{2}\texttt{W}: \texttt{1}, \texttt{1}, \texttt{0}\texttt{A}\texttt{5}; \texttt{A}\texttt{5}\texttt{2}\texttt{W}: \texttt{1}, \texttt{1}$

 $\begin{array}{l} (\# LUS I - B5 I > B5 ; <: 5 ; <; I ? ? I + M ? 5 P I H ; I I 5 F ; D I H 65 ; I 9 < I 0 Y 8 F 5 ; [C 0 I) ; G 7 ? F <; I E G / C '' 0 2) 10901 '8 '' # $ /) 4 '' 9 ' 2 + & / '' . & & / '' 4 '' * 3 E I 6 E Q LSE I + 7 0 X ''' \\ \end{array}$

Q#\$L#\$X-57ABF;D%>B5;<:5;<C<D@%9B8<MDB%2FDB0FDB9F;D%/J658F5;A5%%G/C"%2)10901'8"#\$/)4'"9' 2+&/".&/"4'"*3%F"4'IJE/

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Q#\$L\$\$\-8M9B\7;[\9B5\(B@9B:\<=\>B5;<:5;<C<DFA7C\(5?578AB\);\-B<:7?\&C<<;;\7;[\&B8F?9F7;\ -B<`<M9<\Q / [?X\$X\<%\)3\'0/'-"/"\$'"9'D.&C&"''K0''\$*0\Q66X\L#W0LWW\$X\+<;9857CP\&58AC5\);958[F?AF6CF;7F85\ [5\(5AB58AB5?\>Bp;<:p;<C<DF_M5?/

 $\begin{array}{l} & (\#\$L\$\$) \geq (@AB < C < D@17 ; [\$B5 \$5 ACF6 ?5 \$ < = & = < 8DFG5 ; 5 ?? \%/) ; \$ + FAB 75 C\$ I 7 \$ ^5 8E1 * 5 ?95 \$/ : $85 E17 ; [\$ - B < : 7 ?! h \% \\ & 15 ; < ; \$ / [?5 \% 2 + \& / " . \& / "4 " * 35 'L "4 \# . \& 'M5 'B \& 4 \& I (\& C' < \%) 3\% '9 \$ " . 'N " \$ (+ 'D . \& \$01) \$ \ (G6 \% LTL 0 LR LSE1 I MAB 785 ?9P \% L <] ? \$ \\ & k 5 ?7 \$ I <] ? \$ \end{array}$

Q#\$\$!\$\\ (5GF5c\<=*5?\-<[85?\\i]:i/:`<[F5[\\F;_\F80]>B5;<:5;<C<DFA7(\9<\AB?)9<;5?\=<8\85?578ABE\6?@AB<9B5876@\7;[\?6F8F9M7CF9@\];\8'#\$/)4''9'2+&/''.&/''4''*01)4'2\%31+''4''*35'07\#ULO#U\\\

Q#\$\$!\$X\\6/(0.)135'(\$)/\1&/C&/1&5')/C'=\31+''4''*3A'!4''\&/&\%\')/C'''=&//&\%\0/'&F&\$3C)3'409&':\15c\<8]P\>7CD87G5\+7A:FCC7;X

QLKKRS\N N B5; 19B5\<9B58\=702?!=8<: \D87A5P\ - B5\68<A5??\<=\F; 958658?<; 70\[F?FCCM?F<; : 5; 9\\] - #.)/0\%(01' 2\%31+"4" *0\%(5'J6E\L^TOL!K\\]

 $\begin{array}{l} (LKKR\$^{1}-B5\%;5\ c\ 1D5;5879F<;\$<=\$[F7D;<?9FA\$:7;M7C?\$(2\ 4\ 0\ +\ 0)))B1\ 4\ 0\ +\ 0)))0\ (\ 1\ g\ 4\ 0\ +\ 0)\ ,\ \$P\$\ ,\ ;\$<G58GF5\ c\ 17;\ [\$7\%\ GB5;<:5;<C<DFA70C0\%\ 7?5\ [\$A8F9F_M53\%\ c\ F9B\$\ +\ FA70\%\ 3\ <C\ [=78\ S3\%\ 8\ ''\#\$\ /\)4'''9'\ 2\ +\&/''\ .\&/''4''\ *01\)4'\ 2\%\ 31\ +\ ''4''\ *35'\ JPE\$\ UK \end{array}$

(<c5XXI>7658H685?5;95[H79H9B5H=F8?9H.J58H&<;=585;A5H79H05799C5H';FG58?F9@EH<;H9B5H9B5:5H<=H i *F` 587CH5 [MA79F<; H c F9BF; H9B5HA<; 95 J9H<=H : MC9FAMC9M87CF? : H7; [HAM88FAMC78H [FG58?F9@ j HQ + 78ABSKH 95AB; <C<DFA7C%AMC9M85%Q c F9B% b 78F; % 4 7BC` 58DS%%>7658%685?5; 95 [%7%9B5%); 958; 79F<; 7C% 2 M : 7; %OAF5; A5% (5?578AB\&<;=585;A5X*<;D\)?C7;[\';FG58?F9@E\hM;5X\ Q#\$\$\$X\2<c\[<5?\9B5\(5?578AB58\=F;[\9B5\c<8[?\9<\?7@\F9m\g\4F7C<D7C\>B5;<:5;<C<D@P\-B5\ &8579FG5%><c58%<=%N<8]F;D%-<D59B58E%);GF95[%685?5;979F<;%DFG5;%79%9B5%I<8%2%';FG58?F9@%&<CC5D5% <=\25709BE\0 c 5 [5 ; \0 + 78ABSX\ Q#\$\$\$\$X\/G5;C@\?M?65;[5[\7995;9F<;\7;[\9B5\AM879FG5\M;87G5CF;D\<=\6?@AB<7;7C@?F?X\>7658\ 685?5;95[\rfg199B5\);958685979F<;\<=\4857:?"4857:?\\{=\};958685979F<;\\{=\585;A5E\';FG58?F9@\<=\ + F;;576<CF?E%-cF;%&F9F5?E%HA9<`58X% Q#\$\$\$\$\\ 4 F7C<D7C\>B5;<: 5;<C<D@P\ / J658F5;A5E\>87A9FA5\\7;[\ - B5<8@\\);GF95[\685?5;979F<;\DFG5;\79\ 9B5%&<CC5D5%<=%/[MA79F<;E%';FG58?F9@%<=%+F;;5?<97E%-cF;%&F9F5?E%%HA9<~58%% QLKKKSXN N B79%: 7]5?%=<8%A<: 65CCF;D%_M7CF979FG5%85?578ABm%.;%5JF?95;%F7C%6?@AB<C<DFA7C% 658?65A9FG53%>7658%685?5;95[%79%9B5%);958;79F<;70%2M:7;%0AF5;A5%(5?578AB%&<;=585;A5ENOB5==F50[0 27CC7 : % ' ; FG58?F9@ENOB5==F5C[EN/; DC7; [NQhMC@SXN 0LKKKSX\4F7C<D7C\85?578ABP\.\D8F99@\7668<7AB\9<\6B5;<:5;<C<DFA7C\687A9FA5X\0@:6<?FM:\<; d M7CF979FG5% (5?578ABE%>58MDF7E%)97C@%Q . MDM?9SX% QLKK !SX\ I 5A<: F; D\685?5; 9\9<\9B5\685?5; A5\<=\9B5\<9B5\87; R5; [5; A5\F; \85C79F<; ?BF6?X\>765\ 685?5;95[\79\9B5\);958;79F<;7C\2M:7;\0AF5;A5\(5?578AB\&<;=585;A5E\0B5C[<;\h7A]?<;\&<CC5D5E OF9]7E%.C7?]7X%hM;5X% QLKK^\$X\>C7AF;D\[F7C<DM5\79\9B5\B5789\<=\85?578AB\QcF9B\h7;\HX\(<c5SE\>7658\685?5;95[\79\9B5\ &<;=585;A5%<;%d M7CF979FG5%(5?578AB%F;%/[MA79F<;E%-B5%';FG58?F9@%<=%35<8DF7E%.9B5;?E%3.% Qh7;M78@SX% QLKKRSX1 - 8M9BIF; 19B51A<; 95J91<=185079F<; 2BF6P1 - B51852578AB581721 c F9; 522X1); GF95 [167658168525; 95 [1791 9B5\0F:<;\0FCG58:7;\>B5;<:5;<C<D@\&5;95\0?\Y<M8955;9B\.;;M7C\0@:6<?FM:P\>B5;<:5;<C<D@\ 7; [\ 1 78879FG5\>?@AB<C<D@X\>F99?`M8DBX\ + 78ABX\ QLKKR8XN - B5NF: 6CFA79F<; ?N<=N7N6B5;<: 5; <C<DFA70NM; [58?97; [F; DN<=N=<8DFG5; 5??N=<8N6?@AB<9B5876@N 0 c F9B\h7; \HX\ (< c 5\$X\>7658\685?5;95 [\range 79\9B5\ 1 79F<;7C\&<;=585;A5\<; \Y<8DFG5;5??\F; \&CF;FA7C\ >87A9FA5X\\\ ';FG58?F9@\<=\+78@C7;[\79\I709F:<85X\.68FCX\ QLKKRSXNO<AF7CNA<; ?98MA9F<;F? : Pl 2< : <D5; FfF; Dl9B5% c <8C [Ex; 5D79F; D\5 : `<[F5[\5J658F5; A5% c F9B% &B78C5?#*7c85;A5SXI>7658H685?5;95[H79H9B5HYF=955;9BH.;;M7CH2M:7;HOAF5;A5H(5?578ABH &<;=585;A5EH1<G7HOA<9F7H&<CC5D5H<=H.89H7;[H45?FD;EH27CF=7JEH&7;7[7XH.MDM?9XH QLKKTS\% N B5; \9B5\<9B5\=7CC?\=8<: \D87A5P\-B5\68<A5??\<=\F; 958658?<; 7C\[F?FCCM?F<; : 5; 9\%>765\ 685?5;95[\7949B5\Y<M8955;9B\);958;79F<;7C\2M:7;\OAF5;A5\(5?578AB\&<;=585;A5E\';FG58?F9@\<=\

>859<8F7E%O<M9B% .=8FA7X% .MDM?9X%

 $\label{eq:lkKTS} & \label{eq:lkKTS} 2 & \label{ktKTS} 2 & \label{kt$

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 $\begin{array}{l} \mathbb{Q} LKKUSM - 57 ABF; D171GF?F<;", F?F<; 78@1957ABF; D20>76581685?5; 95[17919B51-BF8955; 9B1); 958; 79F<; 701-2M:7; 10AF5; A51(5?578AB1&<; =585; A5E10920h<?56Bq?1&< 0 \\ \end{array}$

 $\label{eq:total_total_states} t\ QLK\ !\ KSX\ /\ J\ GC<8F\ ;\ D\ '', 5C=0=<8DFG5\ ;\ 5??\ ''NQ\ c\ F9B\ h7\ ;\ HX\ (\ <\ c\ 5\ 5\ 5\ '', 5S\ '', 7GSX\ >\ 7\ 658\ h685\ ?5\ ;\ 95\ [\ '', 799B5\ '', FDB9\ '', 558\ ;\ 7\ 95\ '', 7GSX\ >\ 7\ 658\ h685\ ?5\ ;\ 95\ [\ '', 799B5\ '', FDB9\ '', 558\ '', 79F<\ ;\ 7\ 7\ '',$

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 $\begin{array}{l} QLK ! ! SN + 57 ; F; D^{1}7 ; [198M9B^{1}F; 19B5^{1}687A9FA5^{1}<=1^{4}CC7^{-}<879FG5^{1}85^{2}578AB^{1}N>7658^{1}685^{2}5; 95 [17949B5^{1}N25^{2}$

 $\begin{array}{l} QLK!RSN - B5N6?@AB<C<D@N<=H=<8DFGF;DN7;<9B58N(ccP3Bh7;N(<c58NN);GP35[N685?5;979F<;ENN5?958;N>?@AB<C<DFA7CN.??<AF79F<;N&<;G5;9F<;EN05799C5EN.68FCNN$

%
t 1 7; ; 7% + № . ; DM?№a . %6B5; < : 5; <C<DFA7C%F; G5?9FD79F<; %<=% : 7C5%?5 JM7C%<8F5; 979F<; %A8F?F?%a%>B% 4 №
%
t 4 7C5%&№ 2 < c 78 [№a&< : 6M958?%7; [%7 [MC9%=F8?909F : 5%M?58?P% . ; %5JF?95; 9F7C%6B5; < : 5; <C<DFA7C%
F; G529FD79F<; %<=%95AB; <C<D@%7; [%P9%F : 6CFA79F<; ?%a%>B% 4 № 1 <G5 : `58ENLKKL№
%
t - 87A@% * № . ; [58?5; №a - B5%CFG5 [%5J658F5; A5%<=%987; ?=<8 : 79F<; %a%>B% 4 № . 68FCENLKKL№
%

 $\underline{I {<} \texttt{M8}; \texttt{5}: {<} \texttt{M9B} \texttt{``}; \texttt{FG58?P9@E`` bE` \texttt{HM9?F[5]} / \texttt{G7CM79} {<} \texttt{B} \texttt{``}}$

 $t \, \texttt{H} + 78 \texttt{FC0} \ \texttt{; H} \ \texttt{. ; ; 5} \ \texttt{K} \ \texttt{K} \ \texttt{7?BEH} \ \texttt{i} \ \texttt{*} \ \texttt{F} \ \texttt{5879F} \ \texttt{; D} \ \texttt{d} \ \texttt{M7CF979FG5} \ \texttt{(5?578ABHYF} \ \texttt{; [F; D?]} \ \texttt{=} \ \texttt{8< : } \ \texttt{19B5} \ \texttt{4} \ \texttt{M290} \ \texttt{MOB5C} \ \texttt{=} \ \texttt{1885} \ \texttt{M290} \ \texttt{M29$

```
+ FAB5CC5% / BC5E% i *F=5%079F?=7A9F<; %7; [%[579B%7; JF59@P% . %_M7CF979FG5%09M[@%j% . ;9F<AB% ' ;FG58?F9@E%
                    05799C5E%1<G5:`58E%#$LK%
                     25C5;7NO<B<C: ENi&<;95:6<878@N7;[N15<?B7:7;FAN>87A9F<;58?NF;N9B5NN5?9PN.N258:5;5M9FAN
                     1 78879FG5%); _MF8@Xj%O7@`8<<]% '; FG58?F9@X%#$LK%
                    h<7\,;\,;5\%\,4<\!\!8679\%\,2.70G58?<\,;Bi\,i\,N\,70\,]F\,;D\#F\,;19\,c<\!\!\!\%\,c<\!\!8C[\,?\%*FGF\,;D\%7\,;\%7\,;F\,:F?9FA\%?6F8F9M70\%\,c<\!\!8C[\,GF5\,c\,\%F\,;\$9B5\%,C\%,C^{2}]{}
                    N 5?958;%';F95[%09795?%j%.;9F<AB%';FG58?F9@E%O5799C5%%4%>?@%%Y5`8M78@%#$LLX%
                    OA<99%h7:5%,7;%[5%>M995E%a-B5%?5JM7C%7`M?5%<=%:7C5%ABEC[85;P%.%6B5;<:5;<C<DFA7C%
                    F;G5?9FD79F<;Xal>BX4XEl&7CF=<8;F7\0AB<<Cl<=\>8<=5??F<;7Cl>?@AB<C<D@ElY85?;<El&.XhM;5ElLKK#Xh
                     - B5?F?%4F85A9<8P%
                    &79B@%.;DM2Eki&<0A<;298MA9F;D19B5%25C=P%.%6B5;<:5;<C<DFA7C0[F7C<D7C%A7?5%29M[@%<=%7%679F5;91?%
                    e{<}M8; 5@19{<}1B57CF; DXj141\!\!\!M{>}BFCX1-B5?F?E1456789:5; 91{<}1>?@AB{<}C{<}D@E1'; FG58?F9@1{<}1>859{<}8F7E10{<}M9B1'; FG58?F9@1{<}1>859{<}10^{-1}C1'; FG58?F1'; FG58
                    .=8FA7X\&<: 6C595[E\hM;5E\#$$$X\\
                                                                                                                                                                                                                                                      %
                                                                                                                       5
                    5 5 5
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4-(F1..'()%/G1H?1-.2'7.*/
                      . ??<AF79F<; %=<8% 2 M : 7; F?9FA%>?@AB<C<D@%
                    );958;79F<;7C%2M:7;%OAF5;A5%(5?578AB%&<;=585;A5%
                    4 FGF?F<; \#U\<=\9B5\. : 58FA7; \>?@AB<C<DFA7C\. ??<AF79F<; E\-B5<859FA7C\7; [\>BFC<?<6BFA7C\
                    >?@AB<C<D@\%Q . ==FCF795SX%
                    5
<u>4-(F1..'()%>/+$&'E'&C/%)''/I#%>'F'$%&'()./</u>
```

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I <78 [ %<=% 4 F85A9<8?E%&8F?F?%&CF; FAE%O5799C5%QLK ! #0LK ! USX%
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¶ I <78[%<=%4 F85A9<8?

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LK ! W% %	$05799C5\ \text{'}\ \text{;} \text{FG58?F9@}\ \text{;} <: \text{F}\ \text{;}\ 55\$=<\$\ 1\ \text{\&}\ /\ \$\ 2\ \text{\&}\ 0M\ \text{:}\ \text{:}\ 58\$\ 09F65\ \text{;}\ [\$$
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LK^^% %	1 79F<; 7Ch / ; [<c 2="" 58k?5="" 5;="" 78k<;="" 7;="" 9k="<8k9B5k" :="" ?bf6k9<k7995;="" [k?m="" c="" f9f5?ky5cc<="" f;="" k<br="" m="">aO<af<c<dfa7ck7; '="" 7k79k<br="" ;fg58?f9@k<="k1<89Bk&78<CF;" [k6?@ab<c<dfa7ck7?65a9?k<="kCF95879M85Eak">&B765Ck 2 FCCXk>8<=5??<8k (<`589k 1 Xk N FC?<; Ek [F85A9<8Xk</af<c<dfa7ck7;></c>
LKR ! 0RK% %	(5?578AB%7??F?97;9?BF6EM9B5%456789:5;9%<=%>?@AB <c<d@e%4m_m5?;5%';fg58?f9@%%< td=""></c<d@e%4m_m5?;5%';fg58?f9@%%<>
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