!"#\$%&'(#!%")*+),!-.)/#'&!0/)

 $\frac{\% 230 \ (\ \#!\ 4\ 0\ /5)}{"/-2\ .?\ ;\ ,-"\ ./-". \ .." : +\ .$

45 6 %2)\$7'''0.8.9''/0:\$./\$0;.:\$8<=':&\$'''&\$/<0\$9&'(.00&>\$0<\$'&8<'>\$0;&\$:&:..</:?\$&38&90\$
@;&'&\$'&8<'>./A\$.:\$''/\$''99'<B&>\$''88<((<>''0.</?\$<'\$0;&\$9'''0.8.9''/0\$;'':\$0;&\$9'.<'\$
@'.00&/\$9&'(....</\$<0\$0;&\$./:0'=80<'0\$E<=\$:;<=#>\$''#:<\$'&(&(F&'\$0;''0\$0;&\$'\&8<'>&8<''&8<'>&>\$
8<=':&\$#&80='&:\$'''&\$5 6 %\$./\$0;&\$9=F#.8\$><(''./\$F=0\$'''&\$&''8;\$./:0'=80<'G:\$./0&##&80='#\$

 $\label{eq:continuous} \begin{tabular}{ll} \b$

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)
/CD*E+>)45)g0h)(%''(01#/)E>),!-.)#S0%$h)=>?)($!#!(!/.)
)
; CCT)U_V3=>()WLXV,EMK)/*]MC5)$C=MEBK)
)
/DACC>E>G5)

S

T

["--.2".%I+%*",C`%d-C#5`%&ZVn`%nZ%$"/JG%
% s% Ee:C2#+1%Y;2/+--`%3*`%&Z^n`%n'%$"/JG%
)
```

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CCTY_V = ADIU_LU^V + A=>B>=*E+>=\emptyset < @CCA) ( E>CK=5 ( E>CK=5 ( E>CK=5 ( E>CK=5 ) ( E>
                                                                                   E\ O\ ./7\%\ f\ C26 < C"`\%Q\ ./7\%\ f\ ./7\%\&ZZ^`\%Z\\% $"/JG\%
                 /DACC>E>G5)
)
                                                                       EW: "##">\%Y2..=1\%C/?\%AC; 2+/-\%Y., C:;-\%
                                   S %
                                                                    %%!2C/,+Fd4.25%e.C1-`%&ZZn`%\(%$"/JG%
                 $C=?E>G5)$! 9 T8% e:C>-+2%&&%E>71J%VD'6VDVG% s%e:C>-+2%&(%E>71J%VZ'6VZVG%
                                   s \%S@ 0 AT8\%Y2; /+--+`\%+_, +2>-\%P2. $\%
                                   s \$@ 0 AT8\ [ "72C" / +6 i + . 27+ \aY+5 . / ?\-: +\yd/-+2/C\#"1-c\41J\\\
                                                   %%%%%yM_-+2/C#"1-c% I +HC-+b%
(CD*E+>)4!!!5)$0,$6.!"7)S%--h;%%&)(%"40"#!%"/)
 ; CCT)YX V . =ADI)YULYW V $=DC)=>?)S+AA+A)E>)6 KCAED=>) (E>CK=)
                 /DACC>E>G5)
                                                                EK.2?C/\\W++\#+\\3\*\\('\&^\\\&'\V\\\\\"/JG\\
                 C=2E>G5) I 5+2`\\\a 0 : "-+\\\ I +C-: b\\\
                                   s %BC5#.2`%ad/-2.?;,-"./b%-.%
44M&P=&/8&$L/''#H:.: | U=&$U''0&$TR | I =:0$F&$9<:0&>$0<$6 - S$FH$V9 ($</$ - &>/&:>''H?$$
                8
  ; CCTYY^V = ADIYDLWZV ; +KC> = ??*IC)7M+P=MS+MMO++?)2M+DTP@B*CA
                 /DACC>E>G5)
                                                                                   EWC--5%K+/="/1`%3 * 9`%( '&^`%&V&% $ "/JG%
                 C=2E>G5
                                   s \% Y ; 2=+\%ad/-2.?;,-"./b\%-.\%
44M&P=&/8&$L/''#H:.: ] U=&$U''0&$T0 ] I =:0$F&$9<:0&>$0<$6 - S$FH$V9 ($</$!'.>''H?$$
                                                   L9'.#$R | 9''9&':$@.##$'&8&.B&$''$('''0$</#H?$/<$8<((&/0:44$
)
%
44
```

1 M=GE=AEBK8%

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*-:?+/-1\\$:1-\\<2"-+\\-:+\"2\\+11C51\\C/?\\C11\"7/$+/-1\\"/\\-:+\"2\\.</\\<.2?1J\\0:+/+4+2\\1-:?+/-1\\
-C=+\%C/\\"?+C\\. 2\\>C11C7+\\P2. \$\\\C\.-: +2\\C\;-: .2\\-: +5\\\$\$:1-\\C\,=/. <#+?7+\\-: +"2\\?+H-\\H.-:\\H5\\
;1"/7\%o;..-C-"./\%$C2=1\%<:+2+\%C>>2.>2"C-+\%C/?\%H5\%>2.>+2\%2+P+2+/,"/7\%1;,:\%C1\%P...-/..-+1\%.2\%
,"-C-"./1J\\W\\C7\\C2\\1\$\\\1\\C\\$C\\.2\\C,C\?+\$\\,\\.PP+/,+J\\
1M=GE=AEBK) (ICDTE>G8%
9 ##\2+o; "2+?\>C>+21\\ $ C5\\H+\1; H\\+, -\\-.\\1; H $ "11"./\\P.2\\-+_-; C#\1" $ "#C2"-5\\2+4"+<\\-.\\-:+\\
,.$$+2,"C#\>#C7"C2"1$\\?+-+,-"./\\1.P-<C2+\\\;/?+2\\#",+/1+\\-.\\-:+\\3/"4+21"-5\\P.2\\-:+\\
?+-+,-"./%.P%>#C7"C2"1$J%9##%>C>+21%1;H$"--+?%P.2%1;,:%,:+,="/7%<"##%H+%"/,#;?+?%C1%
1.;2,+%?.,;$+/-1%"/%-:+%2+P+2+/,+%?C-CHC1+%P.2%-:+%>;2>.1+%.P%?+-+,-"/7%>#C7"C2"1$%.P%
>C>+21\%1; H1+o; +/-\#5\%1; H$"--+?\%-.\%-:+\%151-+$J\%31+\%.P\%-:+\%1+24\",+\%"1\%1; H\%+,-\%-.\%-:+\\#\",+/1\"/7\%
C72++$+/-`\,:22+/-\#5\\H+-<++/\\B:+\3/\"4+21\"-5\\.P\\0+1-+2/\\@/-C2\".\\C/?\\B:2/\\"-\\J,..$\\
:-->8FF<<<<J-:2/"-"/J...$J%
9 ##\"/1-C/,+1\\.P\\>#C7\"C2\"1 \$ \\ <\"##\H+\\2+>.2-+?\\-.\\-:+\\\ext{e}: C\"2\\.P\\\ 3 / ?+272C?; C-+\\*-; ?\"+1J\\
W2.4+/%,C1+1%.P%>#C7"C2"1$%<"##%2+1;#-%"/%C%72C?+%.P%L+2.%P.2%-:+%C11"7/$+/-J%*;H1+o;+/-%
.PP+/,+1%<"##%2+1;#-%"/%PC"#;2+%P.2%-:+%,.;21+J%%
/@FF+A*)/CA^EDCB)
1+7"1-2C2"C#%*+24",+1%:-->8FF<<< J2+7"1-2C2J;<..J,C%
*-;?+/-\\*;>>.2-\\*+24\\,+1\\:-->1\\\FF1-:?+/-\J:<.J,CF>1>F:+>2?<+\HF\{,$?\\#.7\\\
*+24", +1\%>2.4"?+?\%H5\%-:+\%3*e\%:-->8FF<+1-+2/:1,J,CF1+24",+1F\%
```

7 \$ 6 &! " 7) (\$!#0 \$!6)

```
6 m)b\ZLUZZc5)
6AG@KC>*5%e#+C2%?+4+#.>$+/-%.P%C%1>+,"P",`%,:C##+/7"/7%C/?%.2"7"/C#%-:+1"1J%B:+%<2"-+2%
:C1\%-C=+/\%1\%7/\%P\%,C/-\%2\%1=1\%1;,,+11P;\#5R\%\%\%-:+\%2+1;\#-\%7\%>\%+,+\%?\%1-\%/,-\%4+\%\%?+C1\%C/?\%
 ,./-+/-%:C4+%?"1,.4+2+?%-:+"2\/+,+11C25\%?"1-"/,-"4+\P.2\$ J\\ I +-C"\#+?\2+P+2+/,+\%-.\\
1:HN+.-\H:-\-.\1++\"-\C2.:/?\1:H-\+-"+1\C/?\C\$H"7:"-"+1\\0:C\\P".C-"./1\\C/?\../.+11"./1\\
2+#C-"./1%-.%.-:+2%1:HN+.-1`%+-.J%
1ACBC>*=*E+>\\)B*A@D*@AC5\~;..C-"./1\\<+##\\"/-+72C-+?\\"/-.\\-+-J\\\\V2.>+2\\>C2C72C>:1J\\\9#$.1-\\\
/.%-5>.72C>:",C#%+22.21J%
-=>G@=GC)/TEMB5%*+/-+/,+\1-2;,-;2+\,.22+,-\%<"-:\%P;##\2C/7+\\.P\\1+/-+/,+\\-5>+1\\
 \texttt{E...\$>.:/?`\$,..\$>\#+ `\$C/?\$,..\$>.:;/?6,..\$>\#+\_\texttt{G`\$}<"-:\$P;\#\#2C/7+\$.P\$>;/,-;C-"../\$E"/,\#;?"/7\$ 
1+$"..#./1\%.#./1\%?C1:+1\%>C2+/-:+1+1GJ% i 2C,+P;#\1-5#+\%/+"-:+2\%>.$>.;1\%/.2\H2++L5\%
C/?\P+<\%+22.21J\%
$CBC=ADInBDI+\|=ABIEF5\|M4\|?+\, +\|. P\|+P+\,-\|4\|\%+\|-+\|1\|4\|\%C\|?\|\/?\+>+\/?\+\-\|2\+1\+C2\,:\|\<\"-\:\|
>2.>+2\\\?.,;\$+/-C-\./\.P\\1.;2,+1J\\~;.-C-\./\\\;1+?\\C>>2.>2\\C-+\\5\\\C/?\\>;2>.1\\4+\\5J\\
(6))bdZ)*+)d\c5)
\mathbf{6AG@KC} > \mathbf{*5}) \\ B : + \mathbb{N} < 2^{-} + 2\mathbb{N} : \\ C1\mathbb{N} - C = + /\mathbb{N}2^{-} \\ 1 = 1\mathbb{N}C / ?\mathbb{N} \\ \$ . 1 - \mathbb{N} . \\ P\mathbb{N} - : \\ + \$\mathbb{N}1 \\ ; . , + + ?\mathbb{J}\mathbb{N} \\ e \# + C2\mathbb{N}? \\ + 4 + \# . \\ > \$ + / - \mathbb{N} . \\ P\mathbb{N}C\mathbb{N} \\ + \mathbb{N}C\mathbb{N} \\ +
-+ -1`%<"-: %+4"?+/,+%.P%"/?"4"?;C#%2+1>./1+J%9H"#"-5%/.-%./#5%-.%+ >.;/?%1;HN+,-%H;-%-.%1++%
"-%C2.;/?}1;H-#+-"+1%C/?%C$H"7;"-"+1`%o;C#"P",C-"./1%C/?%,./,+11"./1`%2+#C-"./1%-.%.-:+2%
1;HN+,-1`%+-,J%
1ACBC>*=*E+>N)B*A@D*@AC5%~:.-C-"./1%<+##%"/-+72C-+?%"/-.%-+ -J%W2.>+2%>C2C72C>:1J%9#$.1-%
/.%-5>.72C>:",C#%+22.21J%%
-=>G@=GC)/TEMB5\*+/-+/,+\1-2;,-;2+\,.22+,-\<"-:\P;##\2C/7+\.P\\1+/-+/,+\-5>+1\
E,.$>.;/?\\,.$>#+ \\C/?\\,.$>.;/?6,.$>#+ G\\<"-:\P;##\2C/7+\\.P\\>;/,-;C-".\\E"/,#;?"/7\\
1+$"..#./1\%.#./1\%?C1:+1\%>C2+/-:+1+1GJ% i 2C,+P;#\1-5#+\%/+"-:+2\%>.$>.;1\%/.2\H2++L5\%
C/?\P+<\\+22.21J\\
2)b[Z)*+)[\c8
6AG@KC>*5%e#+C2%?+4+#.>$+/-%.P%C%1>+,"P",%-:+1"1"%<"-:%>2.>+2%>C2C72C>:1J%9?+o:C-+#5%
?+-C"#+?%2+P+2+/,+%-.%-+ -1J%9H"#"-5%-.%+ >.;/?%2+C1./CH#5%1.>:"1-",C-+?%"?+C1%<"-:%,#C2"-5J%
1ACBC>*=*E+>uB*A@D*@AC5%~:..-C-"./1%<+##%"/-+72C-+?%"/-.%-+ -J%W2.>+2%>C2C72C>:1J%9 %P+<%
-5>.72C>:",C#%+22.21J%
-=>G@=GC)/TEMB5\*+/-+/,+\1-2;,-;2+\,.22+,-`\<"-:\2+C1./CH#+\2C/7+\\.P\1+/-+/,+\-5>+1\\C/?\
P;##\2C/7+\\.P\\>; /.-; C-"./J\\*-5\#+\\/.-\\-.\\<.2?5\\\<"-:\\+22.21\\2+\#C-"4+\#5\\P+<\\C/?\\$"/.2J\\
$CBC=ADI)/DI+\|=ABIEF5\|M4"?+/.+\|.P\|C?+o:C-+\|2+1+C2.:`\|<"-:\|>2.>+2\\?..:$+/-C-"./\|.P\|
1.;2,+1J\%
)
```

$(b^2)^*+(c5)$

6AG@KC>*5%1+C1./CH#5%,#+C2%?+4+#.>\$+/-%.P%C%-:+1"1"%<"-:%>2.>+2%>C2C72C>:1J%YC1",% CH"#"-5%-.%+_>.;/?%"?+C1"%<:.1+%?+4+#.>\$+/-%\$"7:-%H+%2C-:+2%-:"/J%MPP.2-%-.%1;>>.2-% >."/-1%<"-:%2+P+2+/,+1%-.%-:+%-+_-J%B+/?+/,5%-.%2+>#C,+%C/C#51"1%<"-:%?+1,2">-"4+%2+-+##"/7%.P%>#.-J%

1ACBC>*=*E+>nB*A@D*@AC5\\W2+1+/-C-"./\\1:.<"/7\\\\\#C>1+1\\\"/\\\-"?"/+11\\\C/?F.2\\>2..P2+C?"/7J\\\\W..2\\;1+\\.P\\>C2C72C>:1J\\\\

-=>G@=GC)/TEMB5%*+/-+/,+%1-2;,-;2+%,.22+,-`%H;-%>+2:C>1%.4+2#5%1"\$>#+`%<"-:%-+/?+/,5%-.% C4."?\%>;/,-;C-"./\%H+1"?+1\%>+2".?\%C/?\%,.\$\$CJ\M22.21\%2+#C-"4+#5\%P+<`\%H;-\%,,C1"./C##5\% 1+2".;1`\%<"-:\%+4"?+/-\%\$"1;/?+21-C/?"/7%.P\%1.\$+\\%>."/-\%.P\\#+\$+/-C25\\%72C\$\$C2\\E,.\$\$C\\1>#",+1`\\P2C7\$+/-1`\\1+\$",.#./\\+22.21`\\%1;H\\+,-64+2H\\?"1C72++\$+/-1`\\>.2#5\\"/-+72C-+?\\o;.-C-"./16\\