! ''#\$%&'()%*+&,(-./\$0&1%*2#-%&3 &1(#4\$&56.#7&84#2%*7#\$0&9&\stringscore{0.4}; #7#<#/#\$0;&(4=&>?.#\$0&!6*@/6(=& A62%B<%*&CC;&CDCE&F,#*7\$&G*(H\$I& J)*#/&K;&CDCC&FL%2#7%=&G*(H\$I& J.M.7\$&CD;&CDCC&F,#4(/I&

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! "#\$%& ' %\$(%)*+, ,#%-.&/01.&2 "345#6&2%55, 7&8,9&:;4\$#6&<--4%-& =%%&>?\$#0.&/01.&/9,8%--,9&\$&&49-\$)A& /9,B,-#*2 "345#6&>%) "#%&2 "345#6&C%)(%9&:;4\$#6&D,??\$##%%&

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"#\$%&!'()\$*!+%\$,-.*\$&/!0"'+1!\$*!#!2.\$,#&-3!4#&5(6\$73!8-*)\$&!+%\$,-.*\$&/9!"'+!:\$**\$(%!7-%&.#6\$;-*!<*-.,\$7-!&(! ((5 - .*=!#%) = 5 - .< 5 - ..= 1 = 0)\$&/!%>!(2 - ..= 1 = 0)\$&/!

>> \$&\$(%3!C-!Q-6\$-,-!().!?\$%>\$%B*!C\$66!Q-!B-%-.#6\$; #Q6-!&(!(&5-.!))%\$,-.*\$&\$-*!C5(!#.-!*&.)BB6\$%B!&(!>-?\$%-!*-.,\$7-!C(.06(#>!#%>!>-,-6(2!#!7)6&).-!C\$&5\$%!C5\$75!*-.,\$7-!\$*!-D)\$&#Q6/!>\$*&.\$Q)&->!#%>!,#6)->9!

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'*6-%=.*%7!

 $\begin{array}{l} G5\$^{*}!\ast\&) > / !?(66(C->!?()).!>\$^{\&}\%7\&^{1}\&-2*i!K1!\$\&\&-.,\$-C*!C\$\&5!>-2\#.\&:-\%\&!75\#\$.*!(.!\&5(*-!(,-.*--\$)B!C(.06(\#>!)))) \\ \#**\$B\%: -\%\&^{*}!\#\%>!?\#7).\%/!.-,\$-C*!05-..!?(.C\#.>!7\#66->!<\$\%\&-.,\$-C!2\#.\&\$7\$2\#\%\&^{*}=1`!R1!\#\%\#6/*\$!?(.!\$\%\&\&\#6!\&5-:-*!)) \\ >.\#C\%!\&5-!\$\%\&-.,\$-C*`!\#\%>!_1!>\$^{*-}:\$\%\#\&\$(\%!(?!\%\&\&\&\#6!\&5-:-*!)).\#C\%!?.(:!\&5-!\$\%\&-.,\$-C*!\&(!))\%\$,-..*\&/! \\ \end{array}$

k - (2k) [(1+k)] = (1+k) [(1+k)] + (1+k) [(

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2.-*&B\$()*!)%\$, -.*&\$-*!Q-7#)*-3!\$%!&5-\$.!*-.,\$7-!.(6-*!&5-/!Q-7#:-!*&.(%B!6-#>-.*!#%>!C-.-!7(:::&&&<-)!&(!:::)%&&/!-%B#B-:-%&!Q)&!>\$>!%(&!2.(>)7-!&:#>&&\$(%#6!?(.::*!(?!*75(6#.*5\$29!!)))))

*-.,\$7-!#7&\$,\$&\$-*9!G5()B5!&5\$*!C#*!: (*&6/!>)-!&(!?--6\$%B!(,-.6/!<C#&75->=!#%>!<: \$7.(A: #%#B->=!\$%!&5-\$.! C(.06(#>!-??(.&*i!!

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<P%&O''(&''&345#49%&, &&3, 55%3#\$B%&%&8, 9#&\$)&, 49&(%H''9#?%)#&70\$30&7,9L%(&B%96&7%55&4)#\$5&M4(A%#&H9%--49%-& \$)39%''-%(&7,9L5, ''(&'')(�%&3,)3499%)#&M%'')*3,4)#\$)A&M%A'')Q&@,7.&-,?%&8''345#6&''9%&9%&4-\$)A&#,&(,&-%9B\$3%& 7,9L9=!0?#7)6&/1!

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 $\begin{array}{l} & (: -!2\#.\&\$7\$2\#\&\$! > -*7.\$Q - >!\&./\$\%B!\&(!7.-\#\&-!\#!7)6\&) . -!(?!*-.,\$7-!\$\%!\&5-!>-2\#.\&: -\&\&!\&5\#\&!\$*!7(\%\%-7\&->!\&(!\&5-!))\&\$, -.*\$\&/!:\$**\$(\%9!P(.!-@\#:26-3!(\%-!\$)\&\&-..,\$-C--!>-?\%) ->!?#7)6\&/!*-.,\$7-!#*!<\%\&.\$\%\$7!\&(!().!\$-\%\&\&!\&*1!)(!().!\$-\%\&\&!#*!#!) > -2\#.\&: -\&!\&!!\&!*-:: ->!\&(!?.-\#a-!#!\&(6-.\#\%7-!?(.!:(..-!\%,\$*\$Q6-!*-.,\$7-9!a-\&!\%!\&5\$!-??(.\&3!\&5-.-!C-.-!*-,-.#6!)) \\ & 2\#.\&\$7\$2\#\&\&!\&(\&->!5(C!*-.,\$7-3!-,-\%!\$?!)\&\&\&\%B!\&!\&5-!:\$**\$(\%!\#\%>!\&**(!#\%)=-2\#.\&:-\%\&!\#\%)) \\ & -.*\&!(\&!\%\%) \\ & (\&->!5(C!*-.,\$7-3!-,-\%!?!)\&\&\&\%B!\&!\&\%) \\ \\ & (\&!\#\%) \\ & (\&!\#\%) \\ & (\&!B-\%-.\#\&.\#>\&\&(\%\#6!?(.:*!(?!*75(6\#.*5\$2!?(.!7(\%*\$)-.\#\&(\%!\%)!2.(:(\&!\%\%)!\&-\%))))) \\ & -.*\&!(\%!\%\%) \\ & (\&!\%\%) \\ & (\&!\%\%) \\ & (\&!\%\%) \\ & (\&!\%\%) \\ & (\&!B-\%-.\#\&.\#) \\ & (\&!\%\%) \\ & (\&!B-\%) \\ & (\&!\%\%) \\ & (\&!B-\%) \\ & (\&!\%)$

P#7)6&/!#6*(!%(&->!&5\$*!&-%*\$(%!#%>!7(%7-.%!&5#&!*-.,\$7-!.-7(B%\$&\$(%!C()6>!)%>-.:\$%-!*75(6#.6/!2.(>)7&\$,\$&/!#%>!.-2)&#&\$(%i!!)

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 $\begin{array}{l} X 5 - \%! \$ \&! C \# *! \&\$: -!?(.!\#\%\%) \# 6!. -, \$ - C *!(.!2.(:(\&\$(\%!\#\%>!\&-\%).-3!RN!0(?!\&5 -!Rf1!>-2\#.\&:-\%\&!6-\#>-.*5\$2! \$ \%\&-., \$ - C! \\ 2\#.\&\$7\$2\#\%\&*!\#B. -->!\&5\#\&!?\#7) 6\&/!*-., \$7 -!C \# *!2((.6/!.-2.-*-\%\&->!\#\%>!)\%>-., \#6) ->3!-*2-7\$\#66/!\$\%!.-6\#\&\$(\%!\&(!:(.-!, 76-\#.6/!>-?!\%)->!7.\$\&-.\$\#!?(.!\&-\#75\%) \\ \end{array}$

KGO\$-&H9"3#\$3%&, 8&"-L\$)A&#O%&H%, H5%&7O, &7\$55&-"6&6%-.&9"#O%9&#O")&(\$-#9\$M4#\$)A&#O%&7, 9L&%; 4\$#"M56&\$)&#O%& (%H"9#?%)#&\$-&%I"3#56&7O"#&L%H-&7, ?%).&a</YD.&")(&=CaGbc&&"345#6&89, ?&"(B")3\$)AQN&0?#7)6&/1!

 $\begin{array}{l} G5.--!>-2\#.\&: -\%\&!6-\#>.*5\$2!\$\%\&-..,\$-C!2\#.\&\$7\$2\#\%\&*!\%(\&->!\&5\#\&!*(:-!?\#7)6\&/!\#.-!\%(\&!<B((>!.-2.-*-\%\&\#\&\$,-*=!\&(!2)\&!(\%!)\%\$,-.*$\&/!7(:::$\&\&--!(.!<>(\%U\&!26\#/!C-66!C\&5!(\&5-.*=!*(!\&5-/!.-6\$->!(\%!?\#7)6\&/!C5(!C()6>!2-.?(.:!Q-&\&-.9!)G5\$*!*--:->!\&(!.-?6-7\&!\&5-!,\#.\$->!\#\&\&\&)>-*!(?!?\#7)6\&/!C5-\%!\&!7\#:-!\&(!*-.,\$7-!.(6-*!\#\%>!\&5-!\$:2\#7\&!(\%!(\&5-.*i!!)))) \\ \begin{array}{l} G5\ast!*--:->!\&(!.-?6-7\&!\&5-!,\#.\$->!\#\&\&\&)>-*!(?!?\#7)6\&/!C5-\%!\&!7\#:-!\&(!*-.,\$7-!.(6-*!\#\%>!\&5-!\$:2\#7\&!(\%!(\&5-.*i!!)))) \\ \end{array}$

KGO%&9%7 "9(&8,9&M%\$)A&"&#%99\$M5%&3,55% "A4%&\$-&#,&),#&O"B%&")6&%IH%3#"#\$,)-&#,&(,&-%9B\$3%@&[%#&"),#O%9&8,9?&,&& %IH5,\$#"#\$,)&,&&#O%&8"345#6&70,&"9%&?,-#&`4)\$,9&,9&?,-#&3,??\$##%(&#,&#O%\$9&-#4(%)#-QN!0?#7)6&/1!!

K < &0''B%&), #\$3%(& ? 6&3, 55%''A4%-&70, &''9%&), #& / YD-&RH%, H5%&, 8&3, 5, 9S&), #&,)56&(, &), #&0''B%&'')6&; 4''5?-&''M, 4#& - ''6\$)A&W), X&M4#&\$#&''57''6-&-%%?-&#, &M%&9%3%\$B%(&`4-#&\$)%0&<(,)7#&''57''6-&8%%5&0%''9(&70%)&3, ??4)\$3'''#\$)A&-430&3,)85\$3#-&70\$30&-, ?%#\$?%-&5%''(-& ?%&#, &30, , -&&), #&#, &-''6&'')6#0\$)AQN!0?#7)6&/1!

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Kd55&<&3'')&-''6&\$-&70%)&<&7''-&A,\$)A&4H&8,9&#%)49%&\$#&8%5#&5\$L%&70''#&<&7''-&9%''556&M%\$)A&?%''-49%(&,)&7''-&-30,5''956& H9,(43#\$B\$#6&'')(&;4''5\$#6&'')(�%&,#0%9&+#48&&7''-&-,9#&,8&5\$L%&&''-&5,)A&''-&<&7''-)T#&-39%7\$)A&4H&'')(&5\$L%&0''B\$)A& -#4(%)#-&0''#%&?%&'')(&<&0''(&),#0\$)A&#,&-0,7&8,9&-%9B\$3%�''#&<&7''-&H9,M''M56&&\$)%QN&& !

K<I(&?430&9''#0%9&7,9L&\$)&''&3,55''M,9''#\$B%&9,5%&'')(&M%&&\$)B,5B%(&\$)�%�\$)A-&<&9%''556&%)`,6Q&',7%B%9&&\$)�%&M''3L&,8&?6&&?\$)(.&<L),7&-%9B\$3%&'')(&#%''30\$)A&^),&?''##%9&0,7&A,,(_&7\$55&),#&A4''9'')#%%&?%&`,M&-%349\$#0.2(9)B('')##)0.2(6)0.

K<&'''?&''?M\$B''5%)#&''M, 4#&(\$B\$(\$)A&&4)3#\$,)-&,&&9%-%''930.&#%''30\$)A.&'')(&-%9B\$3%.&M%3''4-%&<&M%5\$%B%�%6&\$)#%9''3#&\$)& -\$A)\$8\$3'')#.&')9\$30\$)A&7''6-Q&249#0%9.&W-%H''9''#%&M4#&';4''5X&(,%-&),#&''57''6-&7,9LQ&P0\$5%&&#&-%%?-&M%-#&#,&''55,7& H%,H5%&#,&(,�%&7,9L�%6&(,&'')(&

KG0%&\$--4%&, 8&)\$?M5%)%--&\$-&), #&5\$?\$#%(&#, &-%9B\$3%&*&

- $K9 \quad 4(\$\&\$) = 1.-*-\#.75!\&5\#\&!\$*!\$\%76)*\$, -!(?!*-..\$7-!\#7\&\$,\$\&\$-*3!\#\&\&\$) > -*!\#\%>!,\#6) -*!\#**(7\$\#\&->!C\&5!)$ 2#.&\$7\$2#&\$%B!\$%!*-..\$7-!#7&\$,\$&\$-*3!7)..-%&!-@2-.\$-%7-!(?!0).%()&!#%>!6#70!(?!.-*().7-*9!\%!(%6\$%-!*)..-/! (.!#!*-.\$-*!(?!?(7)*!B.()2*!7()6>!#**\$*&!\$%!#!Q.(#>-.!7(66-7&\$(%!(?!-@2-.\$-%7-*9!
- $R9 \quad 4(\%) 7\&\%B!\#!.-,\$-C!(.!\#\%\#6/*\$!(?!>-2\#.\&:-\%\&!C(.06(\#>!2(6\%7\$-*!?(.!\$)-\%\&!)))) \\ +\%\%B!, \$\%Q6-!\#\%>!6-**!, \$\%Q6-!$ *-., \$7-!#7&\$, \$&\$-*!#%>!&5-\$.!#66(7#&\$(%9!
- 9 $4.\#^{1}.-7(::-\%)=\#^{1}.(\%)=12.$ &5-!2.(:(&\$(%[&-%).-!2.(7-**9!!

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- $\begin{array}{l} \mathsf{K9} \quad \mathsf{G.\#70*!\&(!2.(:(\&{(\%!?(.!\&-\#75\%B3!\#>:\%\%\%8*\&.\#\&{(\%3!}\#\%>!*-.,\$7-!\&(!-*\&\#Q6\$^5!,\#6)-!\%!\&5-*-!*\$B\%\$?\$7\#\&!\#.-\#*!)))) \\ \end{array}$ (?!C(.06(#>!&5#&!(,-.6#2!C\$&5!*-.,\$7-!0#%>!&5-!7#.-B\$,\$%B!(?!&5-!)%\$,-.*\$&/19!
- $R9 \quad 1 *7.$2\&$(\%!(?!*-..$7-!\%-->*!\&(!.-*2-7\&!C$>-!.#.$#&$(\%*!$\%!#7#>-:$7!>-2#.&:-%&*!&5#&!:#O-*!.$*$06-!$,#6)#Q6-!#7&\$,\$&\$-*!(?!3''9%A\$B\$)A3!-%9B\$3%&5%''(%9-0\$H&#O''#&\$-&\$)-#\$#4#\$,)''5&M4\$5(\$)A&^%0A0.&-O,7-&%I3%55%)3%& ") (& ? H"3#&,)& 3, ? ? 4) \$#%&& -& -%9B%(0!)
- $-9 \quad k = ->!?(.!#!7)6k) + #6!*5\$?k!k5#k!2.(:(k-*!B((>!7$k$;-\%*5$2!(?!?#7)6k/!:-:Q-.*!?(.!k5-!Q-\%-?$k!(?!k5-!C5(6-!)))) + (k-*!B((>!7k;-\%*5$2!(?!?#7)6k/!:-:Q-.*!?(.!k5-!Q-\%-?$k!(?!k5-!C5(6-!)))) + (k-*!B((>!7*k5))) + (k-**k5)) + (k-**k5))$ - , -%!#*!\$&! : #/!#22-#.!&(!7(%&.#>\$7&!?\$%#%7\$#6!\$%&-.-*&*!(.!\$%>\$,\$>)#6!*)77-**9!!
- N9 I%&-B.#&\$(%!(?!<B((>!7\$&\$;-%=!\$%!:-%&(.\$%B!2.(B.#:*!#%>!&.#\$%\$%B!?(.!>-#%*!#%>!75#\$.*9!
- $Y9 \quad 4.(**A: -\%\&(.\%B!\#\%)!\&.\#\%\%B!(?!>-2\#.\&: -\%\&!\#\%>!7(66-B-[*75((6!6-\#>-.*5\$2!\#Q()\&!C(.06(\#>3!))))))))$ 2.(: (& (% [& -%)) - 3! #% > !? #7) 6& /! : -%& (.% B9!)
- $f9 \quad G5-!)\%\$, -.*\$\&/!#*!#!C5(6-3!#\%>!#\&!\&5-!5\&B5-*\&!6-, -6*!(?!#>: \$\%\$*\&.#\&\$(\%3!\%-->!\&(!7(\%*\$>-.!5(C!\&(!*)22(.\&!))))))$ #% > !. - C#. > !-@7-66-%7-!%!?#7) 6&/!*-., \$7-9!
- W9 P#7)6k/!>-*7.\$Q-!5(C!k5-/!2#.k\$7\$2#k->!\$%!?#7)6k/!*-.,\$7-!#7k\$,\$k\$-*!k5#k!7(%%-7k*!k(!\$:2#7k!(%! $2.(?-**(\%[*\&) > -\%^*!\#\% > !B-\% - .\#6!76\$: \#\&-!(?!>-2\#.\&: -\%\&[)\%\$, -.**\&/!\%!.-,\$-C!\#\%>!]!^!G! : \#\&-.\%#6*3!\%(\&!E)*\&!$ **½**5#&!&5-/!#&&-%>>9!G5\$*!C()6>!>-*7.\$Q-!-@7-66-%7-3!7(%&.\$Q)&\$(%*3!#%>!\$: 2#7&!(%!&5-!7(::)%&/! *-...\$7->9!!
- $M9 + \$\$, -. \$\$\ell / !2.(: (\$(\$)!#\%>!\&-\%).-!7(:: \$\&\&--!(??-.!?->0#70!\&(!>-2#.\&: -\%\&*!#0()\&!\$\%>\$,\$>)#6!.-,\$-C-.*!A!$ \$5-!>-B.--!&(!C5\$75!&5-/!?(66(C->!&5-!2.(:(&\$(%[&-%).-!B))>-6\$)-*!#%>!\$?!&5-/!>\$: \$%\$*5->!&5-!,#6)-!(?!)*-..\$7-9! !

- 4 (6(.#?\$3! b9!893! ^ !F, #%*3!Z9!0RSK f19! d) #6\$&#&\$, -!>-*7.\$2&\$, -!: -&5(>*!\$%!5-#6&5!*7\$-%7-!.-*-#.759! ' : +1 J& ' %''5#O& :) B\$9,)?%)#-&+%-%"930&V&1%-\$A)&h,49)"53&i0N13!KfARY9!! !
- !

25 - %(: -%(6(B/9!@49-\$)A&+%-%''9303&je0 13!RSRARSY9!!)

- F#B#%!8.3! V9! b93! ^ ! c #., /3!89!49!0RSKY19! "&. **\$%B!()&i!4(%%-7&&B!.#7-3!B-%>-.3!#%>!*&. **!C&&5!?#7)6&/! 2.(>)7&\$,\$&/9!G0%h,49) "5&,8&' \$A0%9&: (43"#\$,)3&k10f13!LR_ALYN9!! !
- c#., -/3!89!493! ^ !H#%O\$%3! "9! "9!0RSKM19!G5-!\$%?6) -%7-!(?!7#:2)*!76\$: #&-!#%>!).Q#%\$;#&\$(%!(%!D)--.A*2-7&.): !#%>! &.#%*A*2-7&.): !?#7)6&/!\$%&-%&!&(!6-#,-9!