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2!3,4556378912356:63751;49<1

2334&h+*,!5\$4/,334\$!4/!6-7'\\$389!: '4\\$\1+!2\\$'+-\\$\&!; -\\$<,\\$3\\$\\$=9!>4\&+!?+\\$4-9!: @0!!AB\\$\\-7!CDCEFB\\$,3,-\\$0!
233\\$3\\$-\\$!5\\$4/,334\\$!4/!6-7'\\$389!: '4\\$\1+!2\\$'+-\\$\&!; -\\$<,\\$3\\$\\$=9!>4\&+!?+\\$4-9!: @0!!:+''!CDCDFAB\\$\\-7!CDCE0!
233\\$3*+-\\$!5\\$4/,334\\$!4/!6-7'\\$389!G\\$+-1!)+'',=!A\\$+\\$,!; -\\$<,\\$3\\$\\$=9!2'',-1+',9!HI0!!:+''!CDEJFK\\$\-7\\$1000!
233\\$3\\$-\\$!5\\$4/,334\\$!4/!6-7'\\$389!: '4\\$\1+!2\\$'+-\\$\\&!; -\\$<,\\$3\\$\\$=9!>4\&+!?+\\$4-9!: @0!!:+''!CDELFAB\\$\\-7!CDEJ0!

4 <=> 8:637!

- "'+\$P!2*'+-*+!; -\(\),\$3*=9!2*'+-*+9!G20!!>020!\\-!6-7'\\38!''\#\$\$\%!&\\\$!'\\\\(()\)0!!H+=!CDDQ0!

,4993?5;625&87<&8?8!<5&

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aK8, -!H+1-33!H+P,3!A, -3,!\%-!6+\$'=!>'+&P!K4(,-Z3!M\$+(+0b!!))\%*#+'!A=(B43\%#(e!G,-1,\$!54'\\%\&3!\%-!*8,!
a`8,! AR\/*-,33! >'+&P! K4(,-! U-4R0b!!c`R4!B+-,'3d!`$+#(+9!`$,33,39!+-1!`$#*8e! 2! ^+#$+'! Y+\\$!
"4-/,$,-&,0!!) \$*#+'0!2#7#3*!QF[9!CDCE0!
a`4!^4! -.!>#*! #$3,'<,3e! K8,-! H+1-,33! H+P,3! A,-3.!%-! 6+$'=!>'+&P! K4(,-Z3! M$+(+0b!!2--#+'!
H_{,*} -7!4/!*8,!2 (,$\%+-!A*\#1\%,3!2334\%+\*\4-e!"\$,+\\\<\*=! K\\*8\\-!?,<4\\*9!>+\\(4\$,9! HM9!^4<\,(S,\$!ECFEV9!)
CDCD0!!c543*B4-,1!M#,!*4!" ) IMFEOd!
aA84R\&+3\%-7!Y, g5\%<+*,!5+\$*3Ze!H+1-,33!+-1!M,3\%\$,!\%-!^,4F3'+<,!^+$\$+\%<,0b!A,(\%-+\$!4-!?+\&\%X,1!
) %*#+'9! &*4S,$!CV9!CDCD0!
EDW!"! 2 - -#+'! H,,*%-7! 4/! `8,! 2334&%+*%4-!/4$! *8,! A*#1=! 4/! 2/$%&+-! 2 (,$%&+-! @%/,!+-1! Y%3*4$=0!! ^4$*8!
"8+$',3*4-9!A4#*8!"+$4'\\-+9! &*4S,$!CFJ9!CDEO0!
aH+Ph-7! K+<,3b! h-! *8,! 2/$\\&+-! M\\+3B4\$+! c"4F:+\&\\'\\*+\*,1! R\\*8! M\$0! A8,$\$=! N48-34-d9! H\#'\\FA,33\\4-!
"4-<, -%-7!4/!+!:+&#'*=!`,+&8%-7!+-1!@,+$-%-7!"4((#-%*=!4-!<-()6&#66)-,"!3&!>3R)6/!@$#%,+&!5#',#6)!+-!
,8)!@\(\delta\(\delta\)\(-1\)-\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\delta\)\(\del
?4#-1*+S',!4-!a`,(B4$+'\\\,3!4/!M\\\3+$\\\\=0b!!`8,!EL\\\!"!H41,\$-!@+-7\\+7,!2334\\\\+\\\4-!2--\\+'!\\4-<,-\\\4-e!
"8%&+749!I''%-4%39!N+-#+$=!LFJ9!CDEO0!!!!!
ag"$+X=Z!/4$! 2S4'\\4-e! 2!`8,4\=!4/!6(,\$7,-\\2'\+\&P!K4(+-84410b!!2--\#+'!H,,\\-7!4/!\\8,!2(,\\\\-1
A*#1\,3!233(')0.2(\\)0.2(\\)0.2(-4\\)0.2(3)-TT44.9998-963T\/TT41Tf[(A)0.C".2A(4/!)-95261459-7#+7,!23
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aH # \$1, \$! + -1! *8, !M, + *8F > 4# - 1! A # Sp, & *e!?, -, 74 * M + * M - 7! *8, !M, + *8! "4 - *$ + & *! M - !78)! 78 + 6(!F + A)! 3A! O6% - .)!
53N)'%-(0b!cM\\dp#-&\\4-3!\\4-\,\$,-\&,9!;\\!?\\<,\\3\\1,9!\2\\B\\\!L9!CDDO0!
G$+1#+*,!A&844'!4/!^4$*8!2 (,$%&+-!A*#1%,39!:$,,!; -%<,$3%*=9!>,$'%-9!G,$ (+-=9!N#-,!COFC[9!CDD[0!
67D6:4<&:89B5&
A# ( ( ,$!CDCD!
a?,3\%3+-&,!?,\(\(+7\)-,1e!\\\8,!?4',!4/!2/\%\&+-!2(\,\%\&+-!@\\*,\$+\\#\$,!\\-!2&\\\\\3\(b!c>44P!\\+'P!:+&\\\\\*+\*,1!S=!
EJ9!CDCD0!!!
M, (4&$+&=!EDE!5$47$+ ((\%-7!AB4-34$,1!S=!*8,!"4((\#-\%*=!A,$<\\&,!@,+\$-\%-7!",-*,\$9!G\$+-1!)+'',=!A\*+*,!
; -\lambda<,\$3\\*=9!:,\S\$#+\$=!EC9!CDCD0!
:,+*#$,1!AB,+P,$!4-!@$)6+&%-!O)%#,E!541&+3*!c6B\341,3!C0C!+-1!C0Ld!:+''!CDE[!
a?+\&h+'hX,1!)h4',-\&,!h-!2(,\$h\&+!/\$4(!*8,!^h-,*,,-*8F'',-*\#\$=!*4!*8,!5\$,3,-*e!2!Mh+'47\#,!S,*R,,-!I1+!>0!
G\$+-1!) +'',=!A*+*,!; -\(\)<\$3\\\^\=9!\\\&\^4S\\$!O9!CDEQ0!
"4-*, (B4\$+\$=!2\$*39!G\$+-1!?+B\$139!HI9!H+\$\&8!E09!CDE00!
: '4$\1+!2*'+-*\&!; -\<,\$3\\*=9!2B\\\'!J9!CDEV0!
a2'4-,!\%-!*8,!H4\#*8!4/!*8,!M\$+74-be!?+\&,9!?\#33\%+9!+-1!>'+&P!:,(\%-\%3*!M\%3&4\#\$3,9b!",-*,$!/4\$!>41=9!H\%-19!
+-1!"#'*#$,!"4''4n#+!A,$%,39!:'4$+1+!2*'+-*+8!; -+<,$3+8=9!A,B*, (S,$!CW9!CDEW0!
a`8,4$\\X\-7!:$,,14(!+3!+-!6\&4-4(=!4/!)\\4',-\&,!\\-!Y+\$\\,*!K\\34-Z3!K\\6!?+.9b!6-7\\38!M,B+\$\((,-*!)\)
"4"4n#\# (9!: '4\\1+!2\*'+-\\&!; -\\<,\$3\\*=9!H+\\&8!C\\9!CDE\\0!
a:4$,<,$!5,$<,$3,9!]#,,$9!23P,Rbe!A'+<,$=!+-1!?,3\%3*+-&,!\%-!2/\$\\&+-!2(,\$\\&+-!A\\#1\\,39!6GAA!\\4-/,\$,-&,!
U_{,}=-4*,!211\$,339!: '4\$1+!2*'+-*\%2!; -\%<,$31*=9!^4<, (S_{,}$!CEFCC9!CDEL0!
a?+\&,fAB,\&*+*4\$38\%Bf6B\%3*,(4'47\%,3!4/!A,,\%-7e!2!?,*#\$-!*4!6'\%X+S,*8!2',T+-1,\$Z3!g"+-!=4#!S,!>@2"U!+-1!
'44P!+*!*8\%30Zb!G#,3*!@,&*#$,!\n-!a2'*,$-+\\n',!5,\$3B,&\\n',3!\4!@\\n',$+\#$,!+-1!"#'\#$,\9b!;"!?\\n',\$\\1,9!AB\\n'-7!
CDEE0!
2!3,45563789&8,,6968:6375!
H41, -10 + 7 + 7, 12334 + 4 - 1
2 ( ,$\\&+-!A\*\#1\\,3!2334\&\\+\\\4-!
2334&\(\dagger*+\(\dagger*4-\)!/4\(\dagger*!4\)!. 2\(\dagger*+\(\dagger*4-\)!/4\(\dagger*+\(\dagger*4-\)!/4\(\dagger*+\(\dagger*4-\)!/4\(\dagger*+\(\dagger*4-\)!/4\(\dagger*+\(\dagger*4-\)!/4\(\dagger*+\(\dagger*4-\)!/4\(\dagger*+\(\dagger*4-\)!/4\(\dagger*+\(\dagger*4-\)!/4\(\dagger*+\(\dagger*4-\)!/4\(\dagger*+\(\dagger*4-\)!/4\(\dagger*+\(\dagger*4-\)!/4\(\dagger*+\(\dagger*4-\)!/4\(\dagger*+\(\dagger*4-\)!/4\(\dagger*+\(\dagger*4-\)!/4\(\dagger*+\(\dagger*4-\)!/4\(\dagger*+\(\dagger*4-\)!/4\(\dagger*+\(\dagger*4-\)!/4\(\dagger*+\(\dagger*4-\)!/4\(\dagger*+\(\dagger*4-\)!/4\(\dagger*+\(\dagger*4-\)!/4\(\dagger*+\(\dagger*4-\)!/4\(\dagger*+\(\dagger*4-\)!/4\(\dagger*+\(\dagger*4-\)!/4\(\dagger*+\(\dagger*4-\)!/4\(\dagger*+\(\dagger*4-\)!/4\(\dagger*+\(\dagger*4-\)!/4\(\dagger*+\(\dagger*4-\)!/4\(\dagger*+\(\dagger*4-\)!/4\(\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\dagger*+\da
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^+*\\d-+'!K4(,-\text{-Z3!A*\#1\,3!2334\&\h-\*\\d-!
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