```
. S(\$8!C>"b! X'\$3+!Q3d4(3)@!B'''; -,(C3.\$,;L(8''*''#%\&,\&,/(A''\$3-,\$.(M''46\$\&-,(5\&*+(C3.\$,;L(8''*''#%))))))
                            E', 0!12, (\$34\$! \# .1.6! \#\$3'(8(43/4*'!R, 22, Y/\$/; \$!4\$3!*0'!12, (\$34!: \$*0(,S,2,8\$<42!)))
                            .,<\\'*+!\W''\\$80!.4(4),\*40!12,(\\345!!
                           J4\&h3!W, ('0'43@!9+"(N, \$.03\&3(-2(N\#'+\$''-=-*\$,\&'\$.(7.-*\$*\&-,(<''*+-;3@!6,)*'(!S(')'**!)))
 .S(\$8!C>"b!
                           4*!*0'!12,(\( 34\)! : <43'; +!,-!.<\( '$<')\( 0!\)!.*5!E',\( 0!\)12,(\( 34\)!#.1.6!#$3'(8(43/4*'!
                           R, 22, Y/\%/ : U!4$3!*0'!12, (\%34!: $*0(,5,2,8\%<42!...<\%'*+!W''*\\$80!.4(4), *40!12, (\%345!!)
                           1422!C>"F!
                           B''''; -, (C3.$,; \mathbb{N}(7.-\#\&;\$@!6,)*'(!S(')'\$*'3!4*!*0'!.,/*0'4)*'(\$!:(<04',2,8\)<42!
                           R,$-'('$<'@!A4; $4@!12,(\%345!!
                           Q2\%T47'*0!.../*04(3!4\$3!.04(2'\$'!HeJ.\$\$'220!G\$\#?"3*\&./(*+"(E\$0L(A4=3\&3*",'"(\$*(-1.5)))))
1422!C>"F!
                           B''''; -, (C3.$, ;0!12, (%340!6, )*'(!S(')'$*'3!4*!*0'!12, (%34!: $*0(, S, 2, 8%<42!...<\\'*+!
                           R, -'(' - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - (-1)^2 - 
                            J'$&'(0!R,2,(43,5!!
B*$ = , <*", D - , %&*&+'"*, +#>&<C"&<"*>, "E&, '="
C>CC! !!!!!!!!!!!: (<04',2,8%<42!1%'23!J%('<*,(@!X''3'$!`)24$3!: (<04',2,8%<42!.%*'!LN6`"M!
C>C>!
                            : (<04',2,8%<42!1%'23!J%('<*,(@!X''3'$!`)24$3!: (<04',2,8%<42!.%*'!LN6`"M!
C>"N!
                            : (<04',2,8%<42!1%'23!J%('<*,(@!X''3'$!`)24$3!: (<04',2,8%<42!.%*'!LN6`"M5!
C>"D!
                            : (<04',2,8\%<42!1\%'23!J\%('<^*,(@!X''3'\$!^*)24\$3!:(<04',2,8\%<42!.\%*'!LN6`"M5!
C>"=!
                            : (<04',2,8%<42!1%'23!J%('<*,(@!X''3'$!`)24$3!: (<04',2,8%<42!.%*'!LN6`"M5!
C>"C!
                           R,01\%'23!J\%('<*,(0!B4:,0!O*0\%,S\%45!!)
C>""!
                           : (<04',2,8%<42!1%'23!J%('<*,(@!X''3'$!`)24$3!: (<04',2,8%<42!.%*'!LN6`"M5!
C>""!
                           R,01\%'23!J\%('<*,(0!B4;,0!Q*0\%,S\%45!!)
                            : (<04',2,8%<42!1%'23!J%('<*,(@!X''3'$!`)24$3!: (<04',2,8%<42!.%*'!LN6`"M5!
C>>P!
C>>N!
                           R.01\%'23!J\%('<*.(0!B4:.0!O*0\%.S\%45!!
C>>?!
                           : (<04',2,8%<42!1%'23!J%('<*,(@!X''3'$!`)24$3!: (<04',2,8%<42!.%*'!LN6`"M5!
C>>?!
                           R.01\%'23!J\%('<*.(0!B4:.0!O*0\%.S\%45!!
C>>D!
                           R,01\%'23!J\%('<*,(0!B4;,0!Q*0\%,S\%45!!)
*, +#>&<C"-?B&*&?<B"+<="'&B*"?E"#?$%B, B"
: 9A!C>>>!I!`$*(,3/<*\\,$!*,!:$*0(,S,2,8+!I!B'$'(42!Q3/<4*\\,$!R,/()'!
                           1422!C>>F@!C>>=@!C>>b@!C>>D@!C>>?@!C>>N@!C>>P@!C>"@!C>"@!C>"C@!C>"F@!C>"F@!C>"=@!C>"b@!
                           C>"D@!C>"?@!C>"N@!C>C>@!C>C"@!C>CC@!C>CF!
                            . S(\$8!C>>=\!C>>b\!C>>D\!C>>D\!C>>P\!C>"\\!C\""\!C>"\\!C\""\!C>"\=\!C>\"b\!C>\"D\!C>\"\!!
                           C>"N0!C>"P0!C>C>0!C>C"0!C>CC0!C>CF!
```

F

```
$4FG1.2F5H"/0"*16 2"35"B34
                         45/4F/"J"=1K3.5L145"/0"+456./K/I/MH"J"*13N6F4M"+22F25345"
<u>./;;'(!:(<04',2,</u>8%<42!1%
                         !.<0.,2!!
            ./;;'(!"PF
1!-!%1$.*
          #)'0!1-'& (3*-(#&.*34(1'''%*-%')&*,!&!1-5#1/*
                         $<=&<C"
, D*, \% < + ''\%, B, +\% # >
                       C>CCOC>CF!
            12.(\%34!1/:
            B2+$$@!#$3'
                         (,/$3!]\%)*,(+5!!
            C>"P0C>CF!
            E4$3)<4S')!4B!R,;;/$\%+!\')S,$)')0!9..gU!GR.0"P"DPFF5!!
94\%,$42!.<\%''!1,/$34\%,$0!:(<04',2,8+!6(,8(4;!LhCbN0DFP\0!#/P-:&:"Q/64"A:"
C>">0C>"=!
            +.567.@!W4*
                         d!R5!R/(*%)@!4$3!65`5!Z4*0(+$!:(*0/(5!A%*2'3U!:$!Q*0$,4(<04',2,8%<42!
            .*/3+!.-!*0'!
                         ; ,!R4)*'!.+)*' ;!\$!.,/*0d')*'($!Q*0\,S\40!9.1gU!GR.0">C?D>?5!!
            944, $42!0$3 1; '$*!-.(!*0'!]/; 4$\\\')!B(4$\\!Lh"=\\PD>\\PD>\\P\!#/P-:\\\"\0/64\"A:"+.567.\\!
C>>D0C>>N!
                *0' d!R5!
                         (*%)@!4$3!65`5!Z4*0(+$!:(*0/(5!
                3U!:$!Q 5,4(<04',2,8%<42!.*/3+!,-!*0'!B4;,!R4)*'!.+)*';!%$!.,/*0d')*'($!,S%4@!9( gU!\ i 0b>b?b0>D!
                ,$42!.<
C>>D0C>>?!
                         <!!1,/$34*,$0!:(<04',2,8+!6(,8(4;!LhbP@D>>M@!-:&:"Q/64"A:"+.567.0!
                55`5!Z4*(
                        $!:(*0/(@!4$3!W4**0'd!R5!R/(*%)5!!
                3U!:$!( $,4(<04',2,8%<42!.*/3+!,-!*0'!B4;,!R4)*'!.+)*';!%$!.,/*0d')*'($!
                         |g>b0"=>bbM5!
                , S%40!LC
            9
                ,$42!.<
                        <'!1,/$34*%,$0!:(<04',2,8+!6(,8(4;0|LhPb0">>\\0!-:&:"Q/64"A:"+.567.0!
C>>b0C>>P!
            R
                5`5!Z4*
                        $!:(*0/(!
                3U!A,+
                        !E4$3!R(/\)'(!Bc!-,(!4$!0\0$,4(<04',2,8\<42!.\*/3+!,-!\0'!B4;,!R4)\\'!
                 ; !%$!
                        *0d')*'($!Q*0%,S%4@!LGR.!g>b0C>PPPM5!!
"PP?0"PPN!
            94
                 $42!..
                       $<'!1,/$34*\,$!J\))'(*4*\,$!`;S(,&';'$*!B(4$*!Lh""@P?F5b>\@!-:&:"Q/64"
            A
                 .567
            A%
                 R'(
                       <!Q*0$,4(<04',2,8+!4;,$8!*0'!B4;,!,-!),/*0d')*'($!Q*0\,S\\4!L.G\!g!
            P?
"PPD!
                       )'!.<%'$*%-%<!\')'4(<0!.,<%'*+@!B(4$*)0%$0:%3!,-!\')'4(<0!Lhb"b5>>\\@!-:&:"
            . %8
            0/0
                      567.5"
                      \mathbf{E}$ <=&< \mathbf{C}"
, D*, \% < + '"B, \%
C>"P!
                      X''3,$!`)24$3!L1HX`M!*,!:X`:\O@!`$<5!LhF@>>>M@!-:&:"0/64"A:"+.567.@!
            43/4*'!8(4$*)!4$3! /$%,(!4(<04',2,8+!)"94-1473, ',<,$0.20.2(3:)-0.2T80.2()
```

b

```
\&<*, %<+'"E$<=&<C"
                                 #$%&'()\%+!,-!../*0!12,(\%34!`$*'($4*\\,$42!A(4&'2!B(4$*\!X.(23!:(<04'.2.8\<42!
C>C>!
                                R, \$8(')) \$! 6(48/' \$! RT' < 0! \ 'S/72\% < !Lh'' \$N? > M5! - : \&: "0/64" A:" + .567.5!
C>C>!
                                 #$%&'()\%+!.-!.,\*0!12,(\%34!.*5!6'*'()7/(8!`$*'($42!: d4(3)!6(,8(4:!Lh=\chick)>\\dots!Lh=\chick)
                                0/64"A:"+.567.:"
C>"?!
                                 #$\\&'()\\*+!,-!.,/*0!12,(\\34!\^$*'(\$4\\,\$42!A(4\\&'2!B(4\$\\@!Q/(,S'4\$!W''\\\$8!,-!:\$<\\'\$\!
                                R'(4; \%<)0!G, (3'4/[0!1(4$<'!Lh"0bP"M5!-:&:"0/64"A:"+.567.:"]
                                 \#\$\%(')\%*+!,-!.,/*0!12,(\%340!.*5!6'*'()7/(80!9'd!`$\&')*\%84*,(!\')'4(<0!B(4\$*!)*\%84*,(!\')'4(<0!B(4\$*!)*\%84*,(!\')'4(<0!B(4\$*!)*\%84*,(!\')'4(<0!B(4\$*!)*\%84*,(!\')'4(<0!B(4\$*!)*\%84*,(!\')'4(<0!B(4\$*!)*\%84*,(!\')'4(<0!B(4\$*!)*\%84*,(!\')'4(<0!B(4\$*!)*\%84*,(!\')'4(<0!B(4\$*!)*\%84*,(!\')'4(<0!B(4\$*!)*\%84*,(!\')'4(<0!B(4\$*!)*\%84*,(!\')'4(<0!B(4\$*!)*\%84*,(!\')'4(<0!B(4\$*!)*\%84*,(!\')'4(<0!B(4\$*!)*\%84*,(!\')'4(<0!B(4\$*!)*\%84*,(!\')'4(<0!B(4\$*!)*\%84*,(!\')'4(<0!B(4\$*!)*\%84*,(!\')'4(<0!B(4\$*!)*\%84*,(!\')'4(<0!B(4\$*!)*\%84*,(!\')'4(<0!B(4\$*!)*\%84*,(!\')'4(<0!B(4\$*!)*\%84*,(!\')'4(<0!B(4\$*!)*\%84*,(!\')'4(<0!B(4\$*!)*\%84*,(!\')'4(<0!B(4\$*!)*\%84*,(!\')'4(<0!B(4\$*!)*\%84*,(!\')'4(<0!B(4\$*!)*\%84*,(!\')'4(<0!B(4\$*!)*\%84*,(!\')'4(<0!B(4\$*!)*\%84*,(!\')'4(<0!B(4\$*!)*\%84*,(!\')'4(<0!B(4\$*!)*\%84*,(!\')'4(<0!B(4\$*!)*\%84*,(!\')'4(<0!B(4\$*!)*\%84*,(!\')'4(<0!B(4\$*!)*\%84*,(!\')'4(<0!B(4\$*!)*\%84*,(!\')'4(<0!B(4\$*!)*\%84*,(!\')'4(<0!B(4\$*!)*\%84*,(!\')'4(<0!B(4\$*!)*\%84*,(!\')'4(<0!B(4\$*!)*\%84*,(!\')'4(<0!B(4\$*!)*\%84*,(!\')'4(<0!B(4\$*!)*\%84*,(!\')'4(<0!B(4\$*!)*%84*,(!\')'4(<0!B(4\$*!)*%84*,(!\')'4(<0!B(4\$*!)*%84*,(!\')'4(<0!B(4\$*!)*%84*,(!\')'4(<0!B(4\$*!)*%84*,(!\')'4(<0!B(4\$*!)*%84*,(!\')'4(<0!B(4\$*!)*%84*,(!\')'4(<0!B(4\$*!)*%84*,(!\')'4(<0!B(4\$*!)*%84*,(!\')'4(<0!B(4\$*!)*%84*,(!\')'4(<0!B(4\$*!)*%84*,(!\')'4(<0!B(4\$*!)*%84*,(!\')'4(<0!B(4\$*!)*%84*,(!\')'4(<0!B(4\$*!)*%84*,(!\')'4(<0!B(4\$*!)*%84*,(!\')'4(<0!B(4\$*!)*%84*,(!\')'4(<0!B(4\$*!)*%84*,(!\')'4(<0!B(4\$*!)*%84*,(!\')'4(<0!B(4\$*!)*%84*,(!\')'4(<0!B(4\$*!)*%84*,(!\')'4(<0!B(4\$*!)*%84*,(!\')'4(<0!B(4\$*!)*%84*,(!\')'4(<0!B(4\$*!)*%84*,(!\')'4(<0!B(4\$*!)*%84*,(!\')'4(<0!B(4\$*!)*%84*,(!\')'4(<0!B(4\$*!)*%84*,(!\')'4(<0!B(4\$*!)*%84*,(!\')'4(<0!B(4\$*!)*%84*,(!\')'4(<0!B(4\$*!)*%84*,(!\')'4(<0!B(4\$*!)*%84*,(!\')'4(<0!B(4\$*!)*%84*,(!\')'4(<0!B(4\$*!)*%84*,(!\')'4(<0!B(4\$*!)*%84*,(!\')'4(<0!B(4\$*!)*%84*,(!\')'4(<0!B(4\$*!)*%84*,(!\')'4(<0!B(4\$*!)*%84*,(!\')'4(<0!B(4\$*!)*%84*,(!\')'4(<0!B(4\$*!)*%84*,(!\')'4(*!)*%84*,(!\')'4(*!)*%84*,(!\')'4(*!)*%84*,(!\')'4(*!)*%84*,(!\')'4(*!)*%84*,(!\')'4(*!)*%84*,(!\')'4(*!)
C>>b! !
                                \#$\\&'()\\*+!,-!.,/*0!12,(\\34\\!A4;S4\\!9'd!\^$\\&')\\\84\\*,(!\')'4(<0!B(4\\$*!LhP\\P>?5>>\\5!
C>>=!!
                                 : d4(3'30'' - : \&: 0/64'' A : '' + .567.0!R, 065`5!Z4*0(+$! : (*0/(5!))
                                 #$\\&'()\\*+!.-!../*0!12.(\\34!\$*'(\$4\\,\$42!A(4\&'2!B(4\$\\!0!...<\\'\*+!.-!:-(\\<4\$\)\\*!
C>>F!
                                 ((04', 2, 8))^*]R, $-'('$<'0!G'(8'$0!9, (d4+!Lh''0PPb5>>\n0! -:&:"Q/64"A:"+.567.:"
"PPP!!
                                R04(2')! 15!14%(74$a)!: d4(30!#$%&'()\%+!,-!12,(\%34!LhN>>5>>\M0!-:\&:\"0/64\"A:\"+.567.:!
"PPP!
                                W<B\$*+!J\\))'(*4*\,$!1'22,d)\%S\!#$\\&'()\\*+!,-!12,(\\34!LhF\\"b>5>>\\!\!-\!\\:"0/64"A:"
                                 +.567.!
"PPb!
                                R' *' (!-, (!:-(\%<4\$!.*/3\%'))! A(4\&'2!B(4\$*0!\#\$\%\&'())\%+!, -!12, (\%340!1\%'23!\')' 4(<0!\\$!
                                Q*O%, S%4!LhC@>>>5>>M@! -:&:"Q/64" A:"+.567.5"
"PP=!
                                 .; 422!B(43/4*'!.*/3'$*!B(4$*@!A0'!#$\&'()\*+!,-!A'[4)!4*!.4$!:$*,$\,\!Lhb>>5>>\\!end{align*}.
                                0/64" A:" + .567.5!
                                B \text{$\mathbb{N}$--, (3!W';, (\%42!.<0,24()0\%S@!A0'!\#\$\%\&'()\%*+!,-!A'[4)!4*!.4\$!:\$*,\$\%,!LhF>>5>>\@!-:\&:"}
"PPF
                                0/64" A:" + .567.5!
C\% + < *B" + - - ' \& , = "E? \%" < ? *"E$ <= , = "
C>"?0C>"b!!
                                 94*\,$42!.<\'\$<'!1,\$34*\,$!LS(,$,)'3!hFN=0?F"\\\\\0!-&\\0/64\\A:\\+.567.\\\\0!R,\06`!
                                 Z4*0(+\$!X''3;4\$!:(*0/(!4\$3!W4**0'd!R/(*\%)!
                                A\*2'\!!:\$!:\(<04'\,2,\8\<42!\.*/3+!\,-!1\,(48\\$8!4\$3!1\,3!6(\,3/<\\,\$!:\34\$\\4\\\,\$)!\\\$!
                                Q*0\%, S\%40!H(\%8\%$42!./7;\%))\%, \$!J'<';7'(!C>"b0!\')/7;\%**'3!:/8/)*!C>"D!4$3!^4$/4(+!)
                                C>"?5!!
B\&<C',"+\$*>?\%"@??R"
C>CC(
                                 : (*0/(0!^{^{^{1}}}, 0$!X50))
```

D

#\$3'(!\'&%'	d!A0'!94; '!,-!*0'!B4; 'U!6424',S(,*',; %<)!4\$3!\43%,<4(7,\$!J4*')!1/(*0'(!\'-\\$'!*0'!
	6(')'\$<'!4\$3!J\)S'()42!,-!R4S(\\\$')!\\\$!Q4)\*'(\\$!4\\$3!.,/\*0'(\\$!:-(\\<45!./7;\\*\*'3!\*,!
	>-0\$.(A-'&"*0(M6", (A'&", '"5!^/2+!C>CF5!!
!	E, /%)'!E'!W'%22, /(@!: \$*, %\$'!i4TT, @!J4&%3!62'/(3'4/@!.k&'(%\$'!i%(40@!H2%&%'(!
	A, ; 7('*0!JM4\$!BM, (30B, \$T42'T0!Q; ; 4\$/'22'!KM2240!E4; +4!Z042M3M0!1(M3, !X'2a'(0!L))
	^4 <y '2%\$'!.*="" *0'(t@!^'))%'!r4="" 2%'t@!6'*'(!w%*<0'22@!`;,8'\$!<="" 3'(!w4(%'!w%22'*@!c%&%'(!b="" td=""></y>
	B/\$\$@!Q2\)47'*0!]\\\\23'7(4\\$3@! <b>Q/64\\A:\\+.567.</b> @!Z4\*0(+\\$!^5!X5\: (\*0/(@!W4\*\0'd!R5\)
	R/(*%)@!E,/%)!R04%))@!4\$3!^,)kS0%\$'!E')/(5!!
C>CC!	: \$<\\'\$*!J9: !4\\$3!J''\\$!6,\\$/24\\\\$!.\*(/<\*/('!\\\$!)/70

?

 $9+"(B\&3'-,3\&,(N\#'+\$''-.-/\&3*!\%\$!4!)S'<\%42!\%))/'!,\$!*0'!<,\$*(\%7/*\%,\$)!,-!^4;')!.a\%7,5!$ 

N

```
C>>F!
             +.567.\"\0/64" A 5!\0\0\$, 4(<04', 2, 8+\ell6, \div '(+\ell4\$3!A'<0\$, 2, 8+\ell'G(\bar{8}3\bar{8}\$8!\0\0\$, 8(4S0\bar{8}\!)
             4$3!: (<04',2,8%<42!: SS(,4<0')5!>"?&"53(&,(N,*+#-6-.-/0!FC!L=MUFbP0F?N0!
C>>C!
             Q*0\$, 4(<04', 2, 8\%<42!.*/3+!, -!*0'!B4;, !, -!Q*0\%, S\%40!0-4\#, \$.(-2(N\#'+\$''-.-/\&'\$.(-2(N\#'+\$''-.-/\&')))))
             < "*+-; (\$, ; (9+"-\#0)!PL=MU!FF"0Fbb5!
-\$@'\&B>,="@??R"#>+-*,\%B"
             +.567.V''Q/64''A:!4$3!Z4*0(+$!X''3;4$5!Q*0$,4(<04',2,8+0!G$,;=--W(-2(-2)))
C>>b!
             N\#'+\$''-.-/\&'\$.(<''*+-;3@!'3\%*'3!7+!]'(7'(*!W4<0\$'(@!:2*4W\%(4!6('))5!)
C>>"!
             W%<04'2! J%'02!4$3!.*'&'$!:5!E'G24$<0!6'47,3+!W/)'/:0!14(&4(3!#$%&'()%*+0!SS5!DP0
             ?D5!
@??R"%,)&,AB"
C>">!
             + .567.\"0/64" A 5!9+"(0-4#, $.(-2(*+"(>-0$.(N, *+#-6-.-/&'$.(C, 3*&*4*"0!K, 25!"D5!\ \ &\ d!
             ,-!A-'\d$.(!+$,/"($,;(*+"())?-.4*\d-,(-2(!"#$%\d'(:#-;4'*\d-,($,;(8\d3*#\d=4*\d-,(\d,($(
             <$0$(!-\%4, &\daggev0!7+! J '4$!Q5!: ($,23\ell!#$\\&'()\h\daggev1!6('))!,-!R,2,(43,\ell!C>>\N5!
C>>N"
             +.567. \"0/64" A 5"9+"(X\d?$D(K,2/; '(YZH/K\ld{0}!\ '&\h' d!,-"
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Q\*0%, S%40!: 33%)!: 7474!LJ'<'; 7'(M5!!

C>>C!

!

" "

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1 '75!C>"P! 9+"(N#'+$"-.-/0(-2(E""#(N#-4,;(*+"(B-#.;(&,(JZD```(a"$#35!K42S4(4\)),!#$\&'()\*+\!!
.S,$),('3!7+!*0'!:(<04',2,8\<42!`$)\*\*/*'!,-!:;'(\<4\!K42S4(4\)),\!\$3\\4\$4\!\Q/64"A:"
+.567.5!!
```

· <+\*&?<+'"-%,B,<\*+\*&?<B""
: S(%2!C>"D!

! "=

- : S(\\(\frac{1}{2}!C>>=!!\) \( \tau \*\* \"#0(A\(\frac{1}{2}). \(\frac{1}{3}\*''(A '\dagge \"\*0L(N, () \) \( \frac{1}{3} + \), \( \frac{1}{3} \

- W4(<0!"PPP! 9-(G\$?"(\$,;(9-(G\$?"FR-\*L(9+"()\*+,-\$#'+\$"-.-/0(-2(1\$%-(B"\$.\*+(\$,;(!"#\$%&'(^3"0! Q/64" A:"+.567.0!64S'(!6(')'\$\*'3!4\*!\*0'!D=!"!:\$\$/42!W''\*\\$8!,-!\*0'!.,<\\'\*+!-,(!:;'(\\$<4\$!:(<04',2,8+0!R0\\$<48,0!`22\\\$,\\)5!
- W4+!"PPN! ! "#\$%&'()\*+, -\$#'+\$"-.-/0(\$%-, /(\*+"(1\$%-(:"-6."3L(:-\*\*"#0(:#-;4'\*&-,(\$,;(!-34%"#(^3"@!Q/64"A:"+.567.@!64S'(!S(')'\$\*'3!4\*!\*0'!.,<\'\*+!,-!:-(\\*<4\$\)\*!: (<04',2,8\)\*)!W''\*\\$8@!.+(4</)'@!9'd!j,(a5!

"b

^/\$'!C>"N!

- '?#+'"+<="B\*+\*,"-%,B,<\*+\*&?<B"

!

- W4(<0!C>CF! ) P'\$?\$\*&-,3(\$\*(\*+"(B"";",(C3.\$,;(A&\*"0!6(')'\$\*'3!\\$!\*0'!-\"23!4)!S4(\*!,-!:(<04',2,8+!:<43';+!0!12,(\\34!:(<04',2,8+!\W,\\$\*0!4\*!\*0'!X''3,\\$!`)24\\$3!\R/2\*/(42!\R'\\$\*'(!\\Q/\64"\A:"+.567.0!\d\\\*0!\Q\\T47'\*0!.,/\*04(3!\\\$3!\J(5!\,7'(\*!:/)\\\\\\\$\\\)!
- $1'75!C>C''! : (<04',2,8+!4*!*0'!X''3'\$!`)24\$3!)\%*'5!6(')'\$*'3!*,!*0'!:X`: \setminus Q!:3/2*!R4; S@!`\$! S'(),\$!S(')'$*4*\,$5!!$
- $\begin{aligned} \text{W4+!C>"N!} & 9 + \text{"$0(R"?"\#(J"2*L(8\$\&.0(J\&2"(-2(\$(A\$2"*0(G\$\#=-\#(A"**."\%",*(\$*(*+"(B"";",(C3.\$,;(A\&*"(BL:CJKD(7.-\#\&;\$\&!LQ/64"A:"+.567.\&!Q2\%T47'*0!..,/*04(3! \ 4TT,/a\&!] ' 4*0'(!J(4)a,\&\%<00!) \end{aligned}$

"N

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C>"F0C>"=!
                   K\%<0R04\%(!-,(!*0'!#$\%\&'())*+!,-!.,/*0!12,(%34!.*5!6'*'()7/(8!R,22'8'!,-!:(*)!4$3!
                    C>"F!*,!C>"b!!
                   #$\&'()\\*+!,-!.,\*0!12,(\\34!.\*5!6'\*'()7/(8!R,22'8'!,-!:(\*)!4\$3!.<\\'\$<')!14</2\*+!
                   R./$<\\25!!
                   6)+<0,2,8+!A'$/('!4$3!6(,;,*\,$!R,;;\**''!;';7'(5!!
C >> P!
C>""!*,!C>"C!!
                   R, 22'8'!, -!: (*)!4$3!. < '$<')!A'$/('!4$3!6(,;,*,$!R,;;,***''5!!
C>""!*,!C>"C!!
                   R, 2'8'!, -!: (*)!4$3!. < '$<')!A'$/('!4$3!6(, ; ,*\,$!A4)a!1, (<'!-,(!*0'!R, 2'8'!, -!
                    : (*)!4\$3!.<\%'\$<')!14</2*+!R,/$<\%25!!
=, -+\%* (, <*"#? ( (&**, , B"
C>CF!I!C>Cb! !
                   \# .1! J'S4(*; '$*!, -!: $*0(,S,2,8+!14</2*+!: 3\&\%), (+!R, ; ; \%**''5!!
                   \# .1!J'S4(*; '\$*!.-!: \$*0(.S.2.8+!14</2*+!: 3&\%).(+!R.; : \%**''5!
C>C>!!!C>CC!!!
C>C>!!!6(')'$*!
                   \# . 1! . *5!6'*'()7/(8!!14 < /2* + ! : 3\&\%), (!! . */3' **! : $*0(, S, 2, 8 + !R2/75!!
                   R, ; ; \%**''!W'; 7'(!-,(!W\%30A'\$/('!\'\&\%'d!-,(!.0'22+!X48'))@!R(\%; \%\$,2,8+!)
C>C>!
                   6(,8(4; !\$!\*0'!J'S4(\*; '\$\!,-!..<\\'\*+\@!R/2\*/('\@!4\$3!E4\$8/48'5!!
C>">!*,!C>C>!!
                   R04\(!,-!*0'!J'S4(*; '$*!,-!.,<\\'*+\@!R/2*/('@!4$3!E4$8/48'!A(4&'2\@!\')'4(<0\@!4$3!
                   6(,-'))%,$42! J '&'2,S; '$*!R,;; \%**' '5!!
C>"b!*,!C>"P!!
                   : \$*0(,S,2,8+!6(,8(4;!R,,(3)\$4*,(!
C>"N!
                   R04\%(!, -!J'S4(*; '$*!W\%30A'$/('!R, ; ; \%**''!-, (!J(5!G+(, $!W\%22'(5!!))))
1422!C>"F!
                   `$*'(%;!R04%(!-,(!*0'!J'S4(*;'$*!,-!..<\"*+0!R/2*/('0!4$3!E4$8/48'5!#$\&'()\\*+!,-!
                   .,/*0!12,(\%34!.*5!6'*'()7/(85!!
!
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C"

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C>>=!*,!C>>b!
                   G, 4(3!W'; 7'(!I!R'\$*(42!B/2-!R, 4)*!: (<04', 2, 8+!., <\%'*+5!)
C>>=!*,!C>>D!
                   G,4(3!W';7'(!I!...<\%'*+!..-!:-(\%<4\$\%)*!:(<04',2.8\%)*)5!
#? ( (\$ < \& *Z"B, \%) \& #, "
C>"D!*,!6(')'$*!
                  6(')\3'*!-,(!*0'!: 22\4\$<'!-,(!X''3,\$!`)24\$3!: (<04',2,8\$<42!\')'4(<0!4\$3!
                   Q3/<4*\%, $0!\$<5!L: X\:\QM5!
C>"F!*,!C>"D!
                   G.4(3!W';7'(!-,(!*0'!:2244$<'!-,(!X''3,\$!`)24$3!:(<04',2,84<42!\')'4(<0!4$3!)
                   Q3/<4*\%, $0!\$<5!L: X\:\Q\M5!
                   :3\&\%),(+!G,4(3!W';7'(!-,(!*0'!:22\)4$<'!-,(!X''3,$!`)24$3!:(<04',2,8\)<42!
C>>N!*,!C>"F!
                   \')'4(<0!4\$3!Q3/<4*\%,\$!L:X`: \QM5!
-,,%"%,)&,A"?E"+%*&#',B\"@??RB\"+<="C%+<*B""
C>CF!
                   0-4\#, $.(-2(N\#'+\$''-.-/0(-2(7--;(\$,;(7--;5\$03!
C>CF! !
                   0-4#, $.(-2(N2#&'$,(N#'+$"-.-/&'$.(>"?&"5(
                   9+"(7.-#&;$(1"-/#$6+"#!
C>CF! !
C>CC!
        !
                   0-4\#, $.(-2(N2\#\&'\$, (N\#'+\$''-.-/\&'\$.(>''?\&''5!
                   0-4\#, \$.(-2(N\#'+\$''-.-/0(-2(7--;(\$,;(7--;5\$03!
C>CC!
        !
                   0-4\#, $.(-2(N\#'+\$''-.-/\&'\$.(A'\&'', '''L(>''6-\#*3!)))
C>CC!
         !
C>C"!
         !
                   0-4\#, $.(-2(N, *+\#-6-.-/\&'\$.(N\#'+\$''-.-/0(
C>C"
```

! CC

```
C>""!!!
                   0-4\#, $.(-2(N\#'+\$''-.-/\&'\$.(<''*+-;(\$,;(9+''-\#0(LC!('\&\%'d)))!)
                    94%,$42!B',8(4S0%<!.,<%'*+!B(4$*)!
C>""!
C>""!
                    .,<\\42!.<\\'\$<')!4\$3!]/;4\\\\\')!\\')'4(<0!R,/\$<\\2!,-!R4\$4345!
C>""!!!
                    N2#&'$,(N#'+$"-.-/&'$.(>"?&"5(0-4#,$.(
C>">!
                   N2\#\&'\$, (N\#'+\$''-.-/\&'\$.(>''?\&''5(0-4\#,\$.(
         !
                   N2\#\&'\$, (N\#'+\$''-.-/\&'\$.(>''?\&''5(0-4\#,\$.(
C>>P(
C>>P!
                   0-4\#, $.(-2(N\#'+\$''-.-/\&'\$.)(<''*+-;(\$,;(9+''-\#0))
         !
                   0-4\#, $.(-2(N\#'+\$''-.-/\&'\$.(A'\&'','''!)
C>>N!
        !
C>>N!
                   Nb$, &$(
         !
C>>=!!
                    #$\&'()\\*+!,-!:(\\T,$4!6('))!
```

! CF