!'''''#\$%&'()(*+%(*%),-%&.'/0\$%1*)'.023)(.*%).%4'.5-66(.*7/%

. '-*%-''+-%c%+&&*\$\$

53*9#1#3#-0:\\D\\\$-(/*.-\\\$**=#.2\\+&+/*,#&\\+&\',,'/+-#'.\\5')\\+.O\\7')=\\7')-"\\3*\$\\-"+.\\

%&'()''&*+,-*.&(/,,0+,12&',3&4'1,5''''6

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[QXD]['G';'\%F']X1.2(';)!D)22V)!C4)(3)!C+@)
                      NO4\# < < \#4, P) &0, Rc, GSTH,
<u>] %#(L P ' ' I)A#/ '</u>)7A 'H;8.;S):C++=)
       K33<(%'0")%'8(;.?)).%<)H.<(%'0")&'"".$'")7F3%(#%8'<=)
               !"#$,) [QXDX1.2(';)ZD)^P;#(#%$)K33<(-'0").%<)-'8(;.?)R'"".$'")
                       [QXD]X1.2(';)dD)^{P};\#(\#\%)c.<(-'0")R''''.\$''_)
                       [QXD]X1.2(';):D)22V)+@(CB@)
                      J(.("(.;)F."')78\%<';) 1 %#():LP ''I):)F3%('%(=)
       NE''\&; +<''+1,RA,$)'',?9,AA/SS,.B<BB,V)+$#98, L''''6,S,
       %&'()''&*+, -*. &(/,!''3''4,1*,]4*?:''<\(\mathbb{V}\)*:=&+;,\(D\)#''',\(RA,G!\)UD\(\rangle,\(\mathbb{L}\),\(C^\)d\(\mathbb{L}\)D\(\mathbb{L}\).
       *33''4,1*, '''4='',*+,12''\&4,?*#4$\\\, 1*'1,12'',<''''#; ''\\\,#+$,''Z.:\#\&+,9*)4,(2*\\((''',\&+,
       (*<. *'&+;,&1B,
\frac{1}{4}(LP''I)J#E)7A'H;8.;S)+4C+\=)
       >';"8."#/')&'"".$'").%<)2;323".?")
               !"#$,)) [ QXD)X1.2(';)+5D)^ P;#(#%$)>';"8."#/')R'"".$'").%<)
               >;323".?"_)
                      [QXD]X1.2(';):D)22V)+B+C@)
                       [QXD] [G'; WF']X1.2(G;) D22V C+@)(3) C+B
                      \mathbf{X} \mathbf{P} \ \mathbf{D} \mathbf{J} \mathbf{F} (\#3\%) \mathbf{Z}
       %&'()''&*+,-*.&(/,L2#1,#..'#:',5*):$,?'',#..4*.4&#1'',3*4,12'',3*::*5&+;,
       . 4*$) (1',52"+,12"9,#4",?"&+;, '*:$,1*,(*+') < "4'M, e *5, < &; 21,12",#..."#:',$&33"4,
       $"."+$&+;,*+,12",#;",#+$f*4;"+$"4,*3,12",1#4;"1,#)$&"+("M, - 2&+6,#?*)1,12",
       ?4*#$,(#1"; *4&"',G. #12*',#+$,:*; *'H8,?)1,#:'*,12&+6,*3,'. "(&3&(,#..."#:',12#1,
       < \&; 21, 5*46, 5\&12, \$\&33''4''+1, (*+') < ''4, ;4*). `B,D2**''', *+'', .4*\$) (1,34*<,12'', :&'1,1*,
       (*<<''+1,*+B.
%
           e['.<#%$)P''I,)A;#<.SD)A'H;8.;$)+9)(3)J8%<.SD)A'H;8.;$)4:f%
] %#(LP''I)J'/'%)7A'H;8.;S)4\CR.;F1)@=)
       g#"8.?);1'(3;#F,)<3F8&'%()<'"#$%)
               !"#$.) [OXDX1.2(':)@D\^U'"#$%#%$)U3F8&'%(")0#(1)g#"8.?)!22'.?)
                      [QXD)X1.2(';):D)22V)+:@Cd)
       )
                      X P \ \ ) J'F(#3\%)4)
```

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\( \leftilde{\frac{\psi_k'() '' \leftilde{k} + \psi_- \text{*}_k(\frac{\psi_k \psi_+ \psi_+ \text{*}_+ \psi_+ \psi
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