

$$\begin{array}{l} 1NKQKQK1\leq\\ N\leq\\ 10^{18}\\ 1NNN=\\ 10^{18}QX\leq\\ QQQ[L,\overline{R}][L,R]=\\ [1,N]M=\\ \lfloor\frac{L+R}{2}\rfloor[L,M-\\ 1](M+\\ 1,R)1\log_2(N)=\\ O(\log N)O(n)O(\log N)\\ 0\leq\\ p,q\leq\\ 20-20\leq\\ q,s,t\leq\\ 0\end{array}$$

$$f(x)=pe^{-x}+q\sin(x)+r\cos(x)+s\tan(x)+tx^2+u=0$$

$$\begin{array}{l} 0\leq\\ x\leq\\ 1\\ O(1)O(1)\\ |f(x)|<\\ 10^{-9}\\ 0\\ LR(L,R)=\\ (0,1)\\ f(x)[0,1]\\ f(x)=ax^2+bx+c\;(a>0)\end{array}$$

$$\begin{array}{l} a>\\ 0\bar{X}f(X)f(x)\\ \bar{x}=\\ \bar{K}\bar{x}=\\ Qf(\bar{K})-\\ f(Q)0\\ [L,R]A=\\ \lfloor\frac{2L+R}{3}\rfloor B=\\ \lfloor\frac{L+2R}{3}\rfloor\\ f(\bar{A})>\\ f(B)[L,A][A,R]\\ f(A)=\\ f(B)[L,A][B,R][A,B]\\ f(A)<\\ f(B)[B,R][L,B]\\ \frac{2}{3}\log_{\frac{3}{2}}N=\\ O(\log N)\\ A=\\ \lfloor\frac{2L+R}{3}\rfloor B=\\ \lfloor\frac{L+2R}{3}\rfloor [L,R]A=\\ \lfloor\frac{L+R}{2}\rfloor B=\\ \lfloor\frac{L+R}{2}\rfloor +\\ 1\\ bound(arr,arr+\\ 5,5)<<\\ endl;cout<<\\ *lower\_bound(arr,arr+\\ 5,6)<<\\ endl;cout<<\\ *upper\_bound(arr,arr+\\ 5,5)<<\\ endl;cout<<\\ *upper\_bound(arr,arr+\\ 5,6)<<\\ endl;\\ 1Ni1MKRMR\\ n1na_ix_1,x_2,x_3,\ldots x_kia_{x_i}+\\ kx_iS1\leq\\ n,a_i\leq\\ 10^51\leq\\ S\leq\\ 10^9\\ n\\ n\leq\\ 10^7\\ O(\varphi^n)\\ \phi=\\ \frac{1+\sqrt{5}}{2}\\ f(10^7)\\ 10^{2*10^6}\end{array}$$