$n(n \le 10^5)$

x, y

u, v

$u_y >$

$u_y u, v$

wsu, v

$w_x <$

$s_x <$

$u_x s_y >$

v_y

u, v

$m(m \le 10^5)[L_i, R_i]$

$[L_i, R_i]$

u

$u_y su$

$su_y v$

$O(\log n)$

$f[i][0/1]i$

i

$[L_i, R_i]x$

$yy[L_i, R_i]$

$O(m \log n)$

nm

1

$n, m \le 10^6$

1

$qa0evenCnt$

a

$ai, j2$

$a[i]+$

$a[j]-$

2

a

$a[i] =$

$a[j] =$

$1evenCnt+ =$

1

a

$(a[0]-$

$2)/2+$

$evenCnt+$

1

$evenCnt =$

$1evenCnt$

s

$ms[a, b]$

$s[x, y]$

$s[x, y]x \le$

$a \le$

$b \le$

$y, y-$

$x+$

$1 >$

$b-$

$a+$

1

$|s| \le$

$10^6, m \le$

10^4

ii

26

z

$O(26|s|)$

i

$s[i+$

$1]$

$2^{26}B =$

$256MB$

$n(n \le$

$10^6)i$

$a[i]$

$[x, x+$

$k-$

$1]k$

$(1 \le$

$x \le$

$n-$

$k+$

$1)$

$k(1 \le$

$k \le$

$n)$

i

i

$rm_1 =$

$max(l, r)$

$m_2 =$

$min(l, r)$

$1 \le$

$k \le$