[0,10]

(10)

[0,5]   [6,10]

(10)   (0)

[0,2]   [3,5]

(0)   (10)

[3,4]   [5,5]

(0)   (10)

update , $\underline{5}$, 10

N

10^9

$\log(N)$

$\log(10^9)$