L R
1   ④ $\to 3$

0   1   2   3   4   5   . . . .

Q^{2} br segment

$$O(TQ \log N) \qquad O(TQN)$$

$$5 \times 10^{4} \times 17$$

$$5 \times 10^{4} \times 20 = 10^{2} \times 10^{4} = 10^{6}$$

$$5 \times 10^{6}$$

— o —

O   O   O   O
0   1   2   3

1 . . . . . (n)

$v = 1$

lower(v) → if lower$(v) > 0$
                    arr $[$lower$(v) - 1]$
              → if lower$(v) == 0$

upper(v) → if upper$(v) == n$
                    → $\times$
              → else   arr $[$upper$(v)]$

$2 \quad 7 \quad 3 \quad 4 \quad 9$

$\downarrow^{1}_{2} \downarrow \qquad \downarrow^{3}\downarrow^{5}\downarrow^{6}\downarrow^{9}_{-1}$

2	9	12	16	25

[1,2] [3,9] [10,12] [13,16] [17,25]

$2 \quad 7 \quad 3 \quad 4 \quad 9$

$\dfrac{1}{\dfrac{5}{3}}$

x

$d = 2$

$\begin{array}{ccc} 1 & 2 & 3 \\ 1 & 2 & 4 \\ 1 & 3 & 4 \end{array}$

$\boxed{2 \ 3 \ 4}$

$1 \quad 2 \quad 3 \quad 4$

$\uparrow \qquad\qquad \uparrow$
$L \qquad\qquad R$

$a_6 - a_1 > d$

$a_5 - a_1 \leq d$

$a_0 \quad a_1 \quad a_2 \quad a_3 \quad a_4 \quad a_5 \quad a_6$

$\uparrow \qquad\qquad\qquad\qquad \uparrow$
$L \qquad\qquad\qquad\qquad R$

$a_1 + d$

$M \quad R$

$^4C_2$

$\boxed{PC_2}$

$j - (i+1) + 1 = j - i - \cancel{1} + \cancel{1} = \boxed{j-i}$

a_{i+1}	a_{i+2}	- - - - - - - . . .	a_j

a_i
$\uparrow$
L

$\uparrow$
R

$x = j - i$

$\binom{x}{2}$

$a + b > c$

a			b	🟥🟥🟥🟥🟥	🟩🟩

$N^2 \log N$

$10 \times 4 \times 10^6 \times 10$

$N \cdot N \cdot N \longrightarrow N \cdot N \cdot \log N$
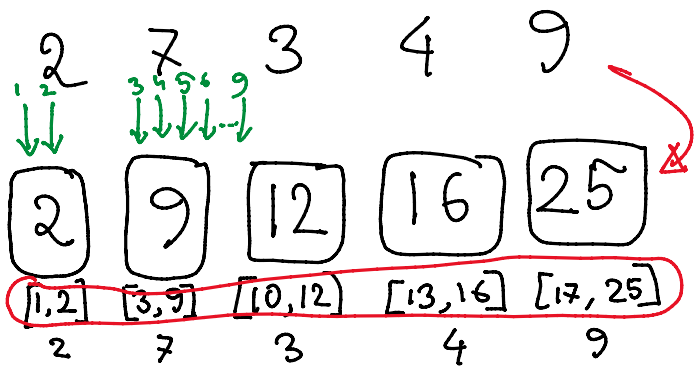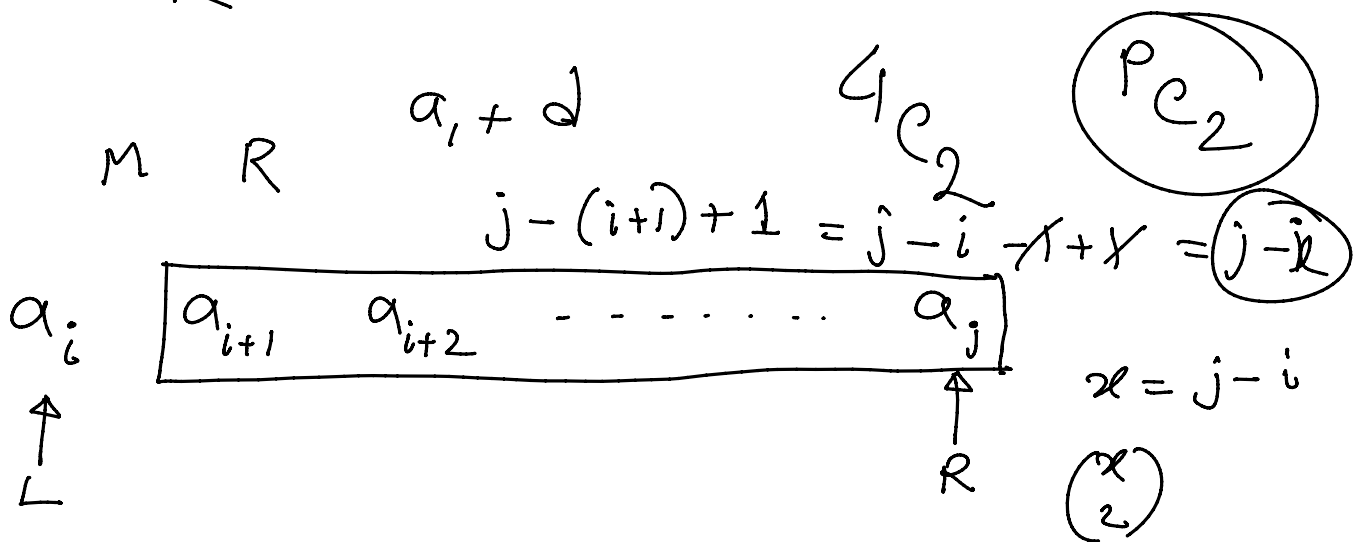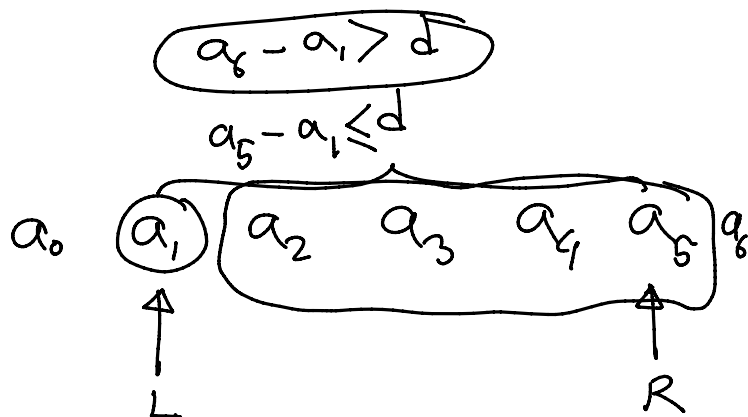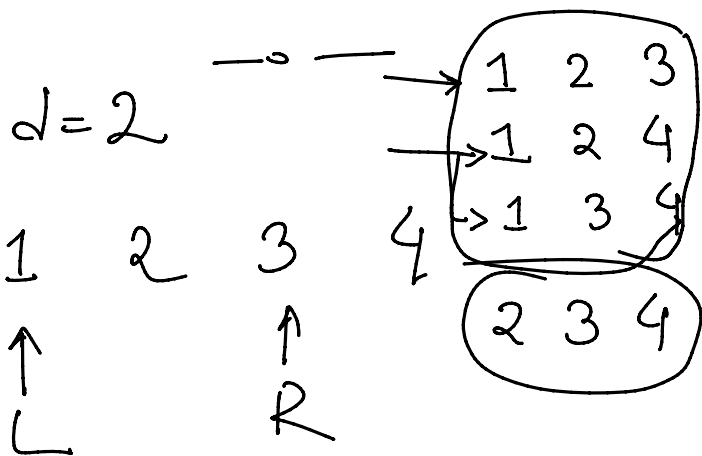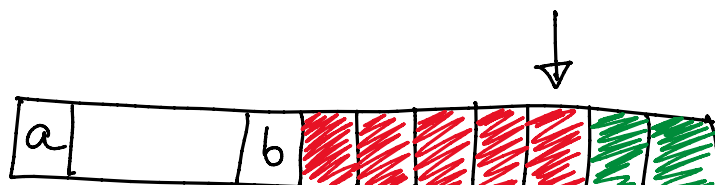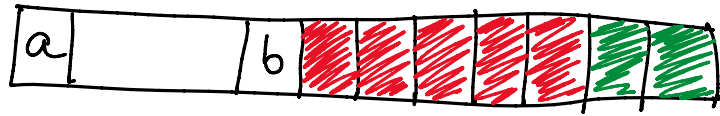
4×10^8

$c = 3$

$x = 3$

①   2   ④   ⑧   9

$x = 1$ ✓
$x = 2$ ✓
$x = 3$ ✓
$x = 4$ ✗
$x = 5$ ✗
$x = 6$ ✗

① 2   ④   ⑧ 9