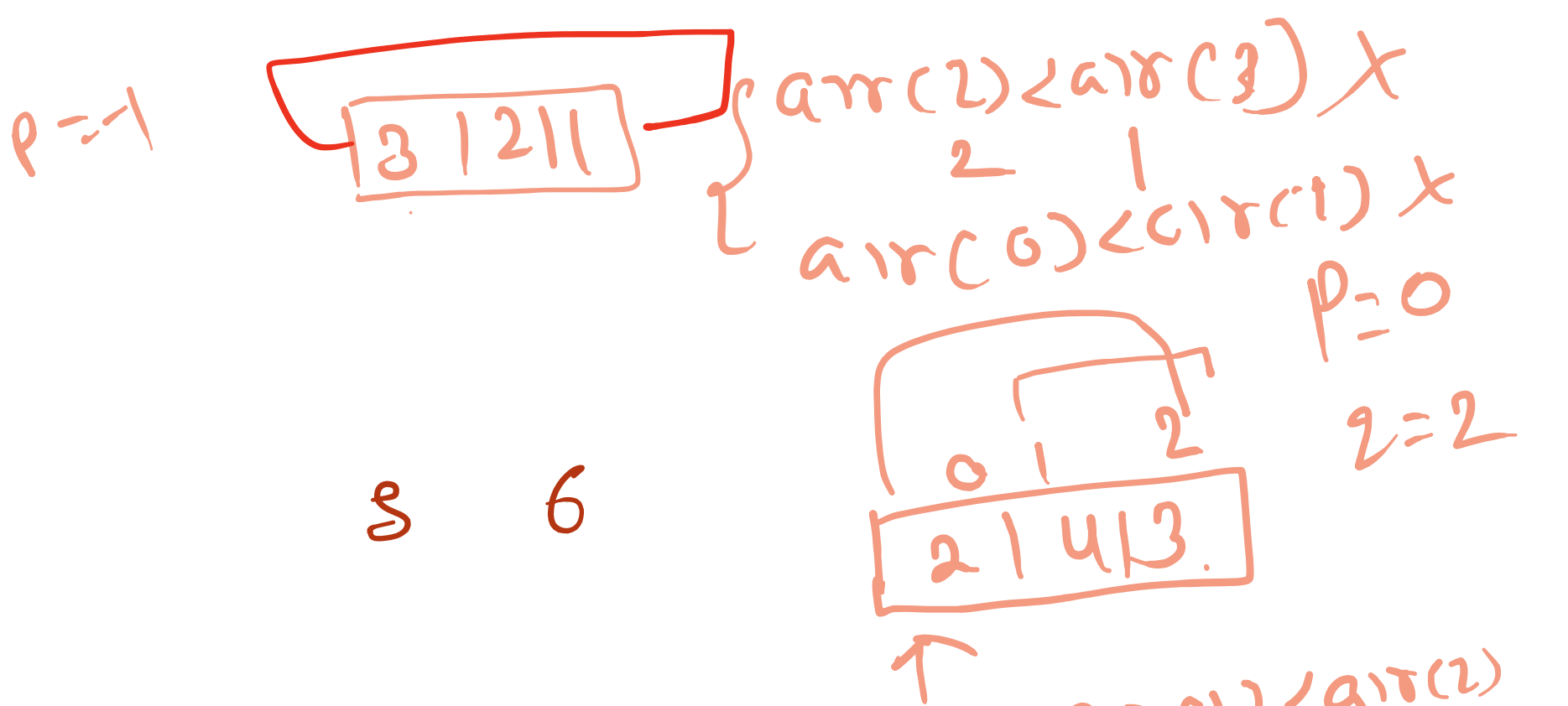
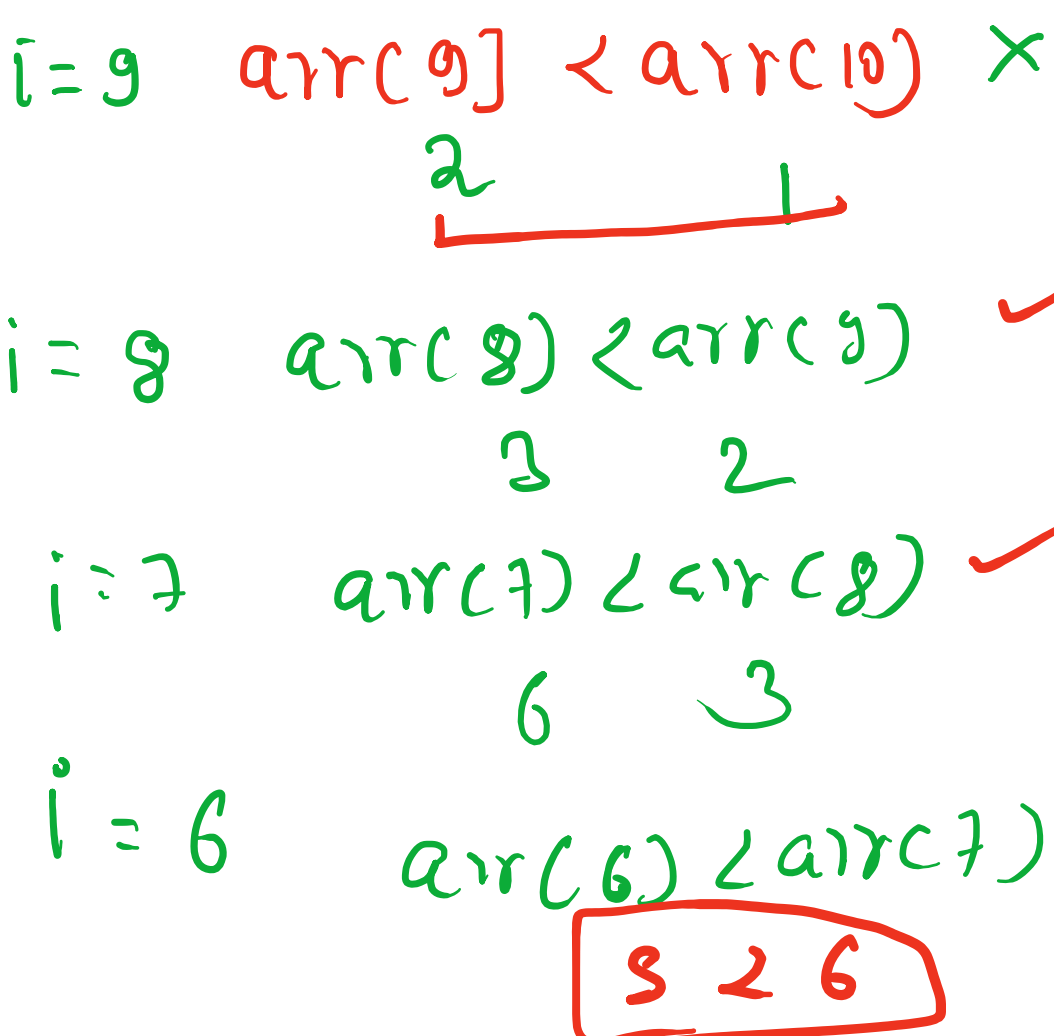
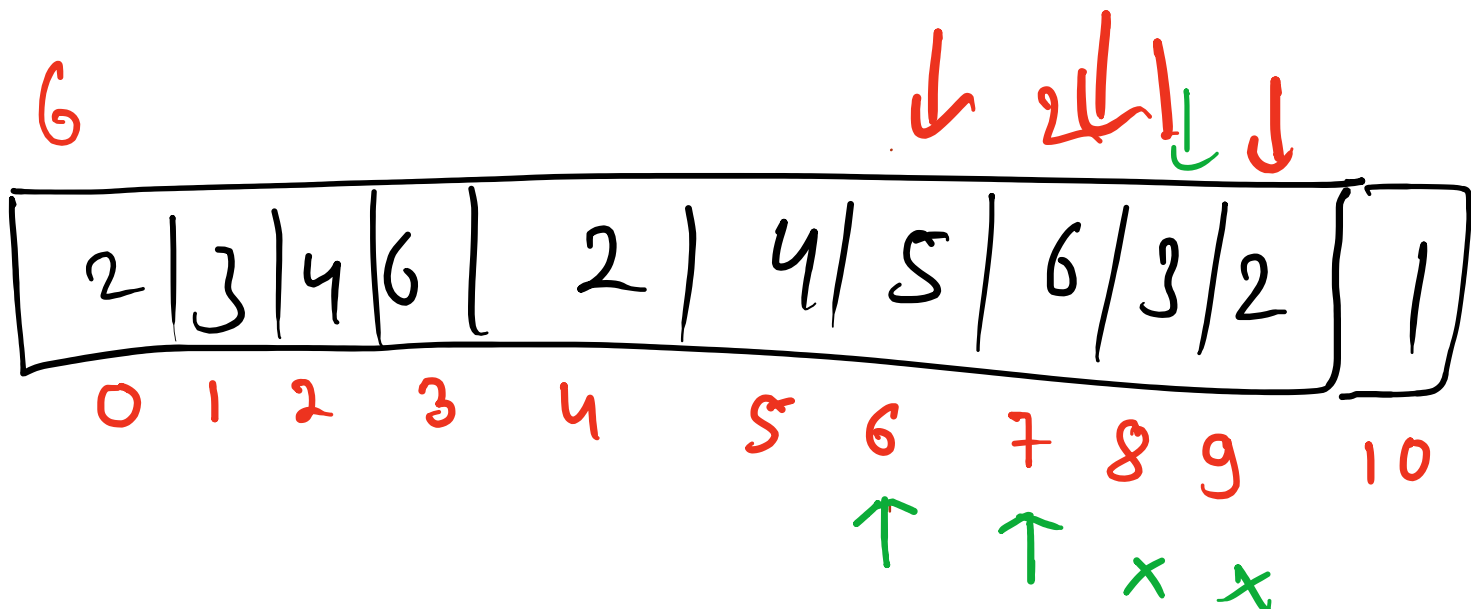


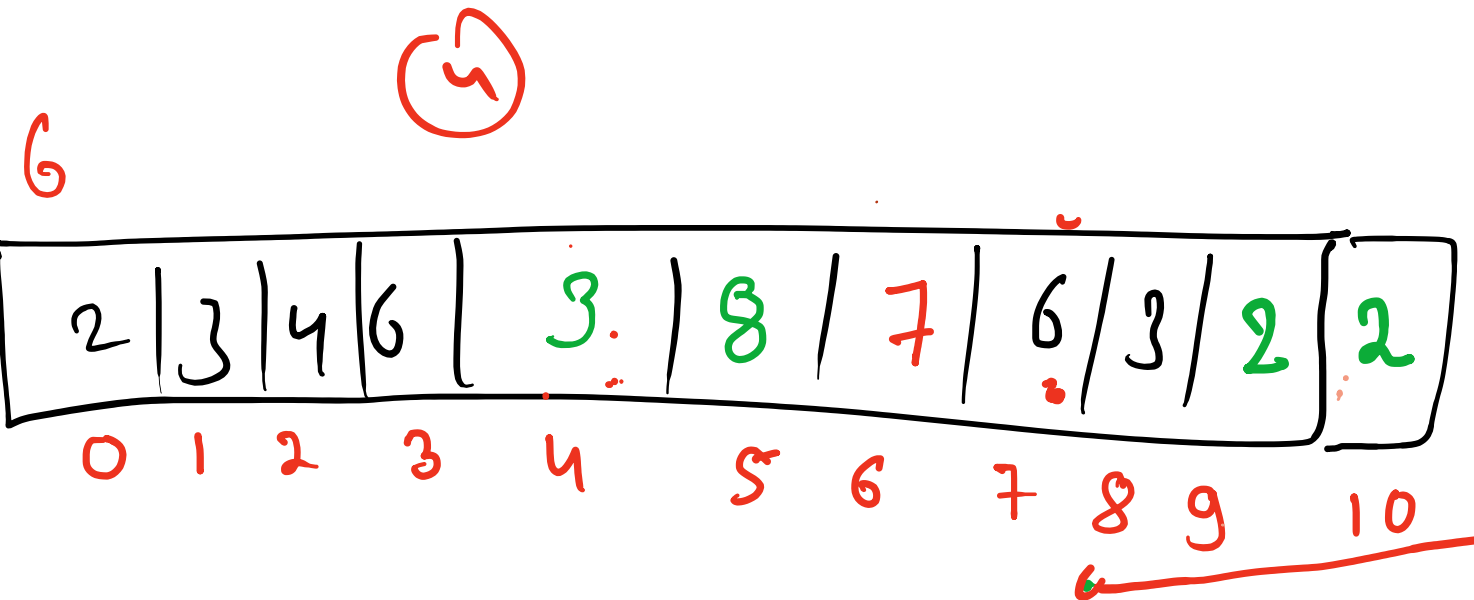
```

for (int i = arr.length - 2; i >= 0; i--) {
    if (arr[i] < arr[i + 1]) {
        p = i;
        break;
    }
}

```



$p=4$
 window
 $q=7$
 window



```

① for (i = n-2; i >= 0; i--) {
    if (arr[i] < arr[i+1]) {
        p = i;
        break;
    }
}

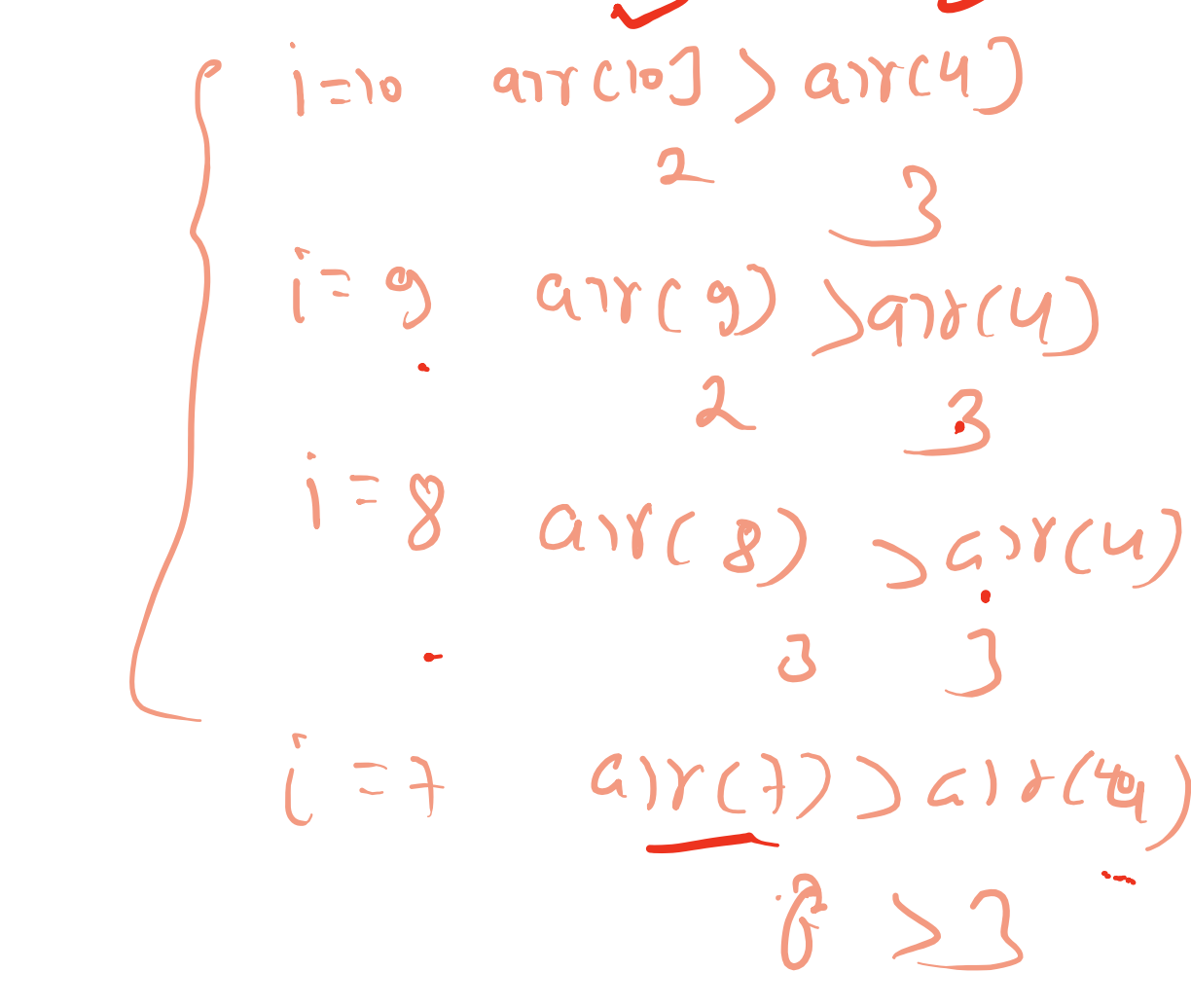
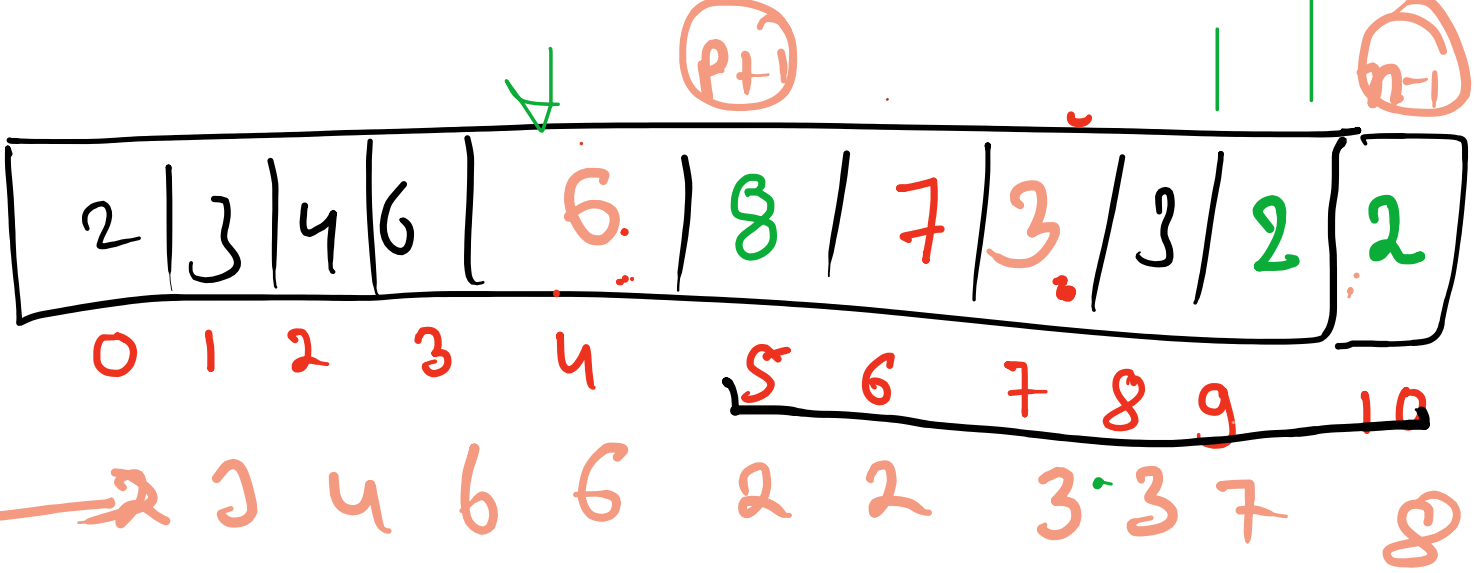
```

```

② for (i = n-1; i > p; i--) {
    if (arr[i] > arr[p]) {
        q = i;
        break;
    }
}

```

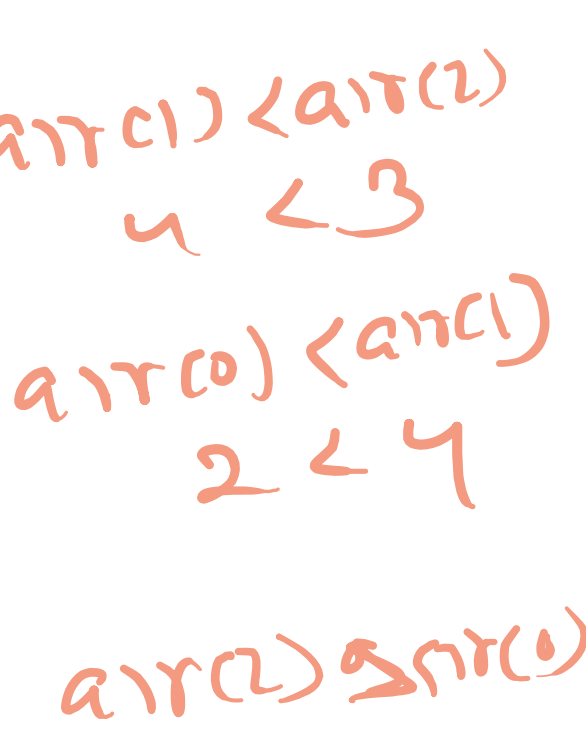
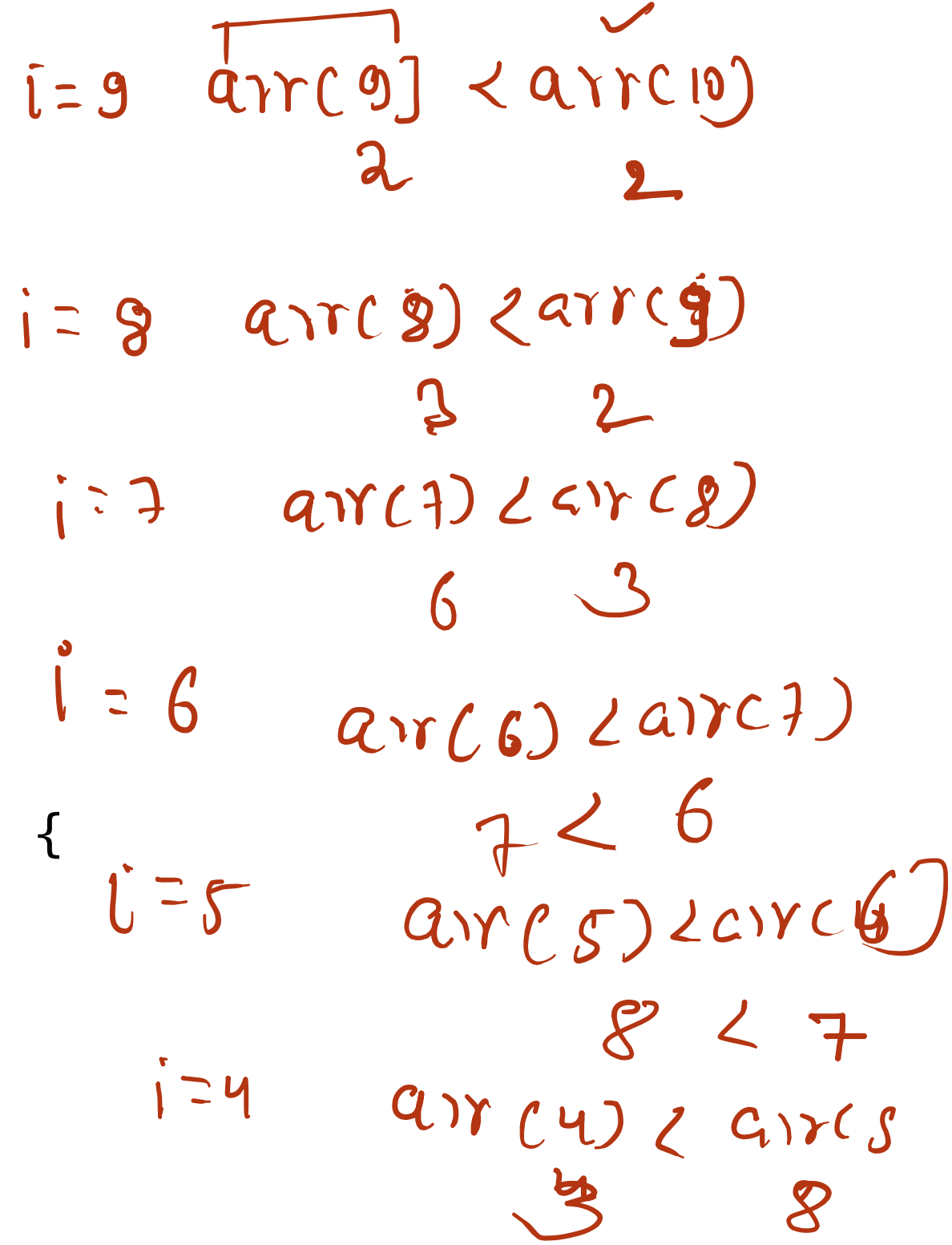
$p=4$
 $q=7$



```

for (int i = arr.length - 1; i > p; i--) {
    if (arr[i] > arr[p]) {
        q = i;
        break;
    }
}

```

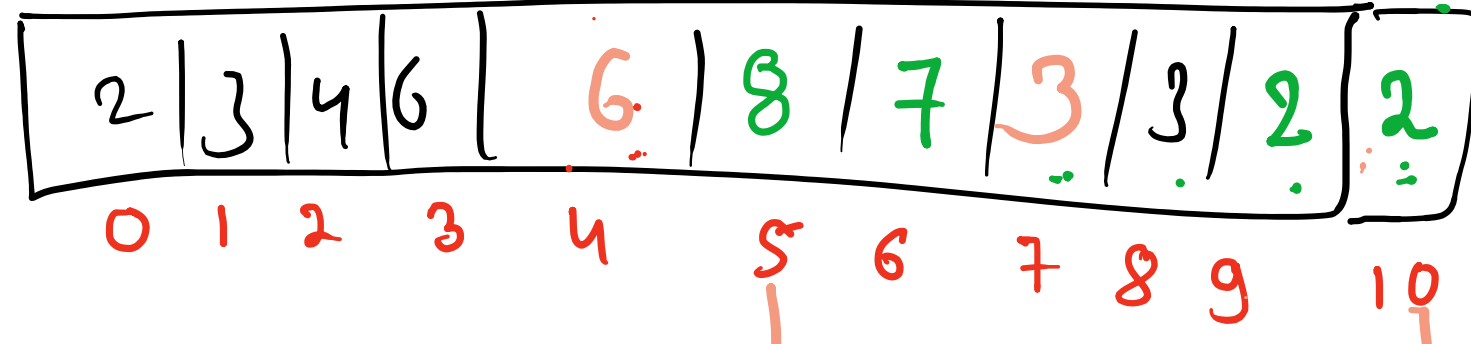


```

public static void Permutation(int[] arr) {
    int p = -1, q = -1;
    for (int i = arr.length - 2; i >= 0; i--) {
        if (arr[i] < arr[i + 1]) {
            p = i;
            break;
        }
    }
    if (p == -1) {
        Reverse(arr, 0, arr.length - 1);
        return;
    }
    for (int i = arr.length - 1; i > p; i--) {
        if (arr[i] > arr[p]) {
            q = i;
            break;
        }
    }
    int temp = arr[p];
    arr[p] = arr[q];
    arr[q] = temp;
    Reverse(arr, p + 1, arr.length - 1);
}

```

$p=4$
 $q=7$



$i=10$

Ramu often uses public transport. The transport in the city is of two types: cabs and rickshaws. The city has n rickshaws and m cabs, the rickshaws are numbered by integers from 1 to n , the cabs are numbered by integers from 1 to m .

Public transport is not free. There are 4 types of tickets:

A ticket for one ride on some rickshaw or cab. It costs c_1 rupees;

A ticket for an unlimited number of rides on some rickshaw or on some cab. It costs c_2 rupees;

A ticket for an unlimited number of rides on all rickshaws or all cabs. It costs c_3 rupees;

A ticket for an unlimited number of rides on all rickshaws and cabs. It costs c_4 rupees.

Ramu knows for sure the number of rides he is going to make and the transport he is going to use. He asked you for help to find the minimum sum of rupees he will have to spend on the tickets.

Input format

Each Test case has 4 lines which are as follows:

The first line contains four integers c_1, c_2, c_3, c_4 ($1 \leq c_1, c_2, c_3, c_4 \leq 1000$) – the costs of the tickets.

The second line contains two integers n and m ($1 \leq n, m \leq 1000$) – the number of rickshaws and cabs Ramu is going to use.

The third line contains n integers a_i ($0 \leq a_i \leq 1000$) – the number of times Ramu is going to use the rickshaw number i .

The fourth line contains m integers b_i ($0 \leq b_i \leq 1000$) – the number of times Ramu is going to use the cab number i .

