

Assignment-4

D) Gym Boi Aakash

Aakash, our new body builder has recently started going to the gym and is very excited about it. He keeps talking about gains and leg days. Now, he's faced with a problem of selecting dumbbells. He's has a set of N dumbbells indexed from 1 to N and the weight of the i^{th} dumbbell is A_i . Now, he has been given a plan for q days by his instructor where each plan is of the form $l\ r\ x$ and he has to work out with all the dumbbells in the range - $[l\ r]$ whose weight is less than or equal to x .

Aakash, being a bit weak with query problems has turned to you to help him find the answer to each plan. Can you help him?

Input

First line contains one integer N , denoting the array size.

Next line contains N integers separated by spaces, i^{th} of which denotes A_i .

Next line contains one integer q , denoting the number of queries to follow.

Then follow q lines, each containing 3 integers l, r, x separated by spaces.

Output

For each query - $[l\ r\ x]$, print the number of elements in the array, in the range - $[l\ r]$ which are **less than or equal** to x .

Constraints

$$1 \leq N \leq 10^5$$

$$1 \leq q \leq 10^5$$

$$1 \leq A_i \leq 10^9$$

$$1 \leq l \leq r \leq 10^5$$

$$1 \leq x \leq 10^9$$

Sample Input 1

```
10
1 2 3 4 5 6 7 8 9 10
5
1 5 3
2 7 4
1 10 9
1 1 2
1 1 1
```

Sample Output 1

```
3
3
9
```

1
1

Sample Input 2

7
50 32 79 52 89 26 41
5
3 4 9
6 7 52
1 6 75
2 7 41
4 5 76

Sample Output 1

0
2
4
3
1

Limits

Time: 2 seconds

Memory: 256 MB