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KQUERY - K-query

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Given a sequence of n numbers a_1 , a_2 ... a_n and a number of k-queries. A k-query is a triple (i, j, k) ($1 \le i \le j \le n$). For each k-query (i, j, k), you have to return the number of elements greater than k in the subsequence a_i , a_{i+1} ... a_j .

Input

- Line 1: $n (1 \le n \le 30000)$.
- Line 2: n numbers a_1 , a_2 ... a_n ($1 \le a_i \le 10^9$).
- Line 3: $q (1 \le q \le 200000)$, the number of k- queries.
- In the next q lines, each line contains 3 numbers i, j, k representing a k-query (1 \leq i \leq j \leq n, 1 \leq k \leq 10⁹).

Output

• For each k-query (i, j, k), print the number of elements greater than k in the subsequence a_i , a_{i+1} ... a_i in a single line.

Example

```
Input
5
5 1 2 3 4
3
2 4 1
4 4 4
1 5 2

Output
2
0
3
```

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