# **K-query**

### **English**

#### Vietnamese

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  $a_1, a_2 \dots a_n \ (1 \le a_i \le 10^9)$ .
- 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  $(1 \le i \le j \le n, 1 \le k \le 10^9)$ .

## Output

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

# Example

Input 5

#### Output

2

0

3