## K-query

## English

## Vietnamese

Given a sequence of $n$ numbers $a_{1}, a_{2}, \ldots, a_{n}$ and a number of $k$ - queries. A k-query is a triple ( $i, j$, k) $(1 \leq i \leq j \leq n)$. For each $k$-query ( $i, j, k)$, you have to return the number of elements greater than $k$ in the subsequence $a_{i}, a_{i+1}, \ldots, a_{j}$.

## Input

- Line 1: $\mathrm{n}(1 \leq \mathrm{n} \leq 30000)$.
- Line 2: $n$ numbers $a_{1}, a_{2} \ldots a_{n}\left(1 \leq a_{i} \leq 10^{9}\right)$.
- Line 3: $\mathrm{q}(1 \leq \mathrm{q} \leq 200000)$, the number of k - queries.
- In the next q lines, each line contains 3 numbers $i, j$, $k$ representing a k-query $(1 \leq i \leq j \leq n, 1$ $\leq \mathrm{k} \leq 10^{9}$ ).


## Output

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


## Example

## Input

5
51234
3
241
444
152

Output
2
0
3

