DQUERY - D-query

Đọc đề đẹp hơn ở:

https://codeforces.com/group/FLVn1Sc504/contest/274490/problem/O (https://codeforces.com/group/FLVn1Sc504/contest/274490/problem/O)

English (/problems/DQUERY/en/)

Vietnamese (/problems/DQUERY/vn/)

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

Input

- Line 1: $n (1 \le n \le 30000)$.
- Line 2: n numbers $a_1, a_2, ..., a_n (1 \le a_i \le 10^6)$.
- Line 3: q ($1 \le q \le 200000$), the number of d-queries.
- In the next q lines, each line contains 2 numbers i, j representing a d-query $(1 \le i \le j \le n)$.

Output

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

Example

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

Output
3
2
3
```