# **D-query**

#### <u>English</u> <u>Vietnamese</u>

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  $a_i$ ,  $a_{i+1}$ , ...,  $a_i$  in a single line.

### **Example**

#### Input

35

#### Output

3 2

3