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DQUERY - D-query

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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 .

✓ Submit solution! (/submit/DQUERY/)

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 \leq q \leq 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
5
1 1 2 1 3
3
1 5
2 4
3 5

Output
3
2
3

✓ Submit solution! (/submit/DQUERY/)

hide comments

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rising_stark (/users/rising_stark): 2024-09-27 12:50:19

One of the worst problems I faced.

After repeated submissions, I was facing TLE. Was optimising the code for no reason, when ultimately it turned out to be an issue of cin vs scanf. Really strict time limit for no reason at all.

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amira3 (/users/amira3): 2024-08-10 11:56:28 simple MO algorithm



ismaelkno (/users/ismaelkno): 2024-03-08 23:14:32 AC IN 1E9+7 LET'S GOOOOOOOOOOOO!



zhouyexuan (/users/zhouyexuan): 2023-07-27 12:41:32 莫队和树没有关系吧(雾 Added by: Jimmy (/users/paulmcvn)

Date: 2008-10-26 Time limit: 1s-1.5s Source limit: 50000B

Memory 1536MB limit:

Cluster: Cube (Intel G860) (/clusters/)

Languages: All except: ERL JS-RHINO NODEJS PERL6

VB.NET

Minesweeper

Resource: (https://play.google.com/store/apps/details?

id=com.popoko.minesweeper)

✓ be spoj user for at least 5 days ✓ solve at least 15 problems ✗ solve this problem

