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RMQSQ - Range Minimum Query

no tags

You are given a list of **N** numbers and **Q** queries. Each query is specified by two numbers i and j; the answer to each query is the minimum number between the range [i, j] (inclusive).

Note: the query ranges are specified using 0-based indexing.

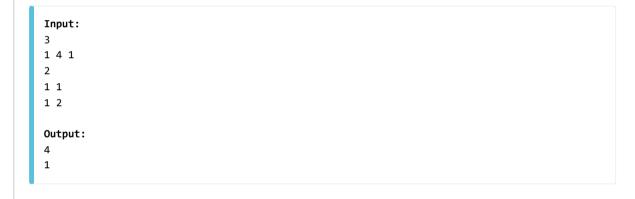
Input

The first line contains \mathbf{N} , the number of integers in our list ($\mathbf{N} \le 100,000$). The next line holds \mathbf{N} numbers that are guaranteed to fit inside an integer. Following the list is a number \mathbf{Q} ($\mathbf{Q} \le 10,000$). The next \mathbf{Q} lines each contain two numbers \mathbf{i} and \mathbf{j} which specify a query you must answer ($\mathbf{0} \le \mathbf{i}$, $\mathbf{j} \le \mathbf{N}$ -1).

Output

For each query, output the answer to that query on its own line in the order the queries were made.

Example



✓ Submit solution! (/submit/RMQSQ/)

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voidpoint11 (/users/voidpoint11): 2024-05-21 16:34:15

It is a sparse table problem but I solve this using by segment tree. LOL .xd

foxydimj007 (/users/foxydimj007): 2024-05-16 17:40:25 you need sparse table for this

tauseeb17 (/users/tauseeb17): 2023-06-18 16:46:56 why o(N*Q) gives A.C in this question.

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Added by:

Joshua Kirstein
(/users/joshkirstein)

Date: 2014-10-18
Time limit: 3s
Source limit: 50000B

Memory limit: 1536MB Cluster: Cube (Intel G860) (/clusters/)

Languages: All

