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Game on Deque AZ101

? Ask Doubt

Time-Limit: 1 sec

Score: 0/100

Difficulty :

Memory: 256 MB

Accepted Submissions: 100

Description

You recently learnt to use the C++ STL deque and decided to play a game on it. You are given a deque with N elements. You take the first two elements of the deque, pop them and push the larger of the two in the front and the smaller at the back of the deque. You are given Q queries, asking the first two elements of the deque you will take on the X-th operation.

Input Format

The first line of the input contains one integer T - the number of test cases. Then T test cases follow.

The first line of each test case contains two space-separated integers N Q - the number of elements in the deque and the number of queries.

The second line of each test case contains N space-separated integers.

Each of the next Q lines contain a single integer X.

Output Format

For each test case, print the first two elements of the deque you will take on the X-th operation for each query. They should be printed in the order in which they will be pulled out of the deque.

Constraints

$1 \leq T \leq 10^5$

$2 \leq N \leq 10^5$

$0 \leq Q \leq 10^5$

$0 \leq A_i \leq 10^9$

$1 \leq X_i \leq 10^{18}$

It is guaranteed that the sum of N and the sum of Q over all test cases does not exceed 10^6 .

Sample Input 1

Copy

```
2
2 1
1 2
1
4 4
1 3 4 4
```

C++14[GCC] ▾

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