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Bitonic Array

? Ask Doubt

Time-Limit: 2 sec

Score: 100.00/100

Difficulty :

Memory: 256 MB

Accepted Submissions: 100

Relevant For:

AZ-201

Description

Given a bitonic array A consisting of N integers and an integer Q . In each query, you will be given an integer K , find the positions of K in A . Integer K exists in A .

Bitonic array - A bitonic sequence is a sequence with $A[1]<A[2]<A[3]....A[k]>A[k+1]>A[k+2]....>A[N]$ for some $1\leq k\leq N$.

Input Format

- The first line contains T , the number of test cases ($1\leq T\leq 10000$).
- The first line contains two space separated-integer N, Q where $1\leq N\leq 10^5, 1\leq Q\leq 10^6$.
- The second line contains N space-separated integers $A_1,A_2....A_N$ where $-1e9\leq A_i\leq 1e9$.
- Next Q lines contains an integer K , $-1e9\leq K\leq 1e9$.
- Sum of N, Q across all test case $\leq 10^6$

Output Format

For each test case print the positions of K in A in sorted order in a new line.

Positions are 1-indexed.

Sample Input 1

Copy

```
1
6 4
1 2 5 3 2 1
1
2
5
3
```

Sample Output 1

Copy

```
1 6
2 5
3
```

C++14[GCC] ▾

Submit

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