

## C. Closest to the Right

time limit per test: 2 seconds

memory limit per test: 512 megabytes

Given an array of  $n$  numbers, sorted in non-decreasing order, and  $k$  queries. For each query, print the minimum index of an array element not less than the given one.

### Input

The first line of the input contains integers  $n$  and  $k$  ( $0 < n, k \leq 10^5$ ), the length of the array and the number of queries. The second line contains  $n$  elements of the array, sorted in non-decreasing order. The third line contains  $k$  queries. All array elements and queries are integers, each of which does not exceed  $2 \cdot 10^9$  in absolute value.

### Output

For each of the  $k$  queries, print the minimum index of an array element not less than the given one. If there are none, print  $n + 1$ .

### Example

input

Copy

```
5 5
3 3 5 8 9
2 4 8 1 10
```

output

Copy

```
1
3
4
1
6
```

[→ Submit?](#)

Language: GNU G++17 7.3.0

 Choose file: [Choose File](#) No file chosen

Submit