

HOME TOP CATALOG CONTESTS GYM PROBLEMSET GROUPS RATING EDU API CALENDAR HELP

STEP 1 STEP 2 STEP 3 STEP 4 STEP 5 | THEORY PRACTICE | SUBMIT SUBMISSIONS HACKS STANDINGS CUSTOM INVOCATION ITMO Academy: pilot course » Binary Search » Step 1 » Practice

## C. Closest to the Right

time limit per test: 2 seconds memory limit per test: 512 megabytes input: standard input output: standard output

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 ( $0 < n, k \le 10^5$ ), 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

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