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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

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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