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ITMO Academy: pilot course » Binary Search » Step 1 » Practice

## B. Closest to the Left

time limit per test: 2 seconds<sup>©</sup> 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 maximum index of an array element not greater 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 maximum index of an array element not greater than the given one. If there are none, print 0.

## Example

input	Сору
5 5	
3 3 5 8 9	
2 4 8 1 10	
output	Сору
Θ	
2	
4	
0	
5	

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