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STEP 1 STEP 2 STEP 3 | THEORY PRACTICE | SUBMIT SUBMISSIONS HACKS STANDINGS CUSTOM INVOCATION

ITMO Academy: pilot course » Two Pointers Method » Step 1 » Practice

B. Number of Smaller

time limit per test: 1 second<sup>

</sup>
memory limit per test: 256 megabytes

You are given two arrays, sorted in non-decreasing order. For each element of the second array, find the number of elements in the first array strictly less than it.

Input

The first line contains integers n and m, the sizes of the arrays ($1 \le n, m \le 10^5$). The second line contains n integers a_i , elements of the first array, the third line contains m integers b_i , elements of the second array ($-10^9 \le a_i, b_i \le 10^9$).

Output

Print m numbers, the number of elements of the first array less than each of the elements of the second array.

Example

Example	
input	Сору
6 7	
1 6 9 13 18 18	
2 3 8 13 15 21 25	
output	Сору
1 1 2 3 4 6 6	

→ Submit?

Language: GNU G++20 13.2 (64 bit, win ✔

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