

B. Number of Smaller

time limit per test: 1 second
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 ($1 \leq n, m \leq 10^5$). 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 ($-10^9 \leq a_i, b_i \leq 10^9$).

Output

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

Example

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

→ Submit?

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

Choose file: Choose File No file chosen

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