



HOME CONTESTS GYM PROBLEMSET GROUPS RATING API CANADA CUP 🛣 SECTIONS

PROBLEMS SUBMIT STATUS STANDINGS CUSTOM TEST

B. Queries about less or equal elements

time limit per test: 2 seconds memory limit per test: 256 megabytes input: standard input output: standard output

You are given two arrays of integers a and b. For each element of the second array b_j you should find the number of elements in array a that are less than or equal to the value b_j .

Input

The first line contains two integers n, m ($1 \le n, m \le 2 \cdot 10^5$) — the sizes of arrays a and b.

The second line contains n integers — the elements of array a (- $10^9 \le a_i \le 10^9$).

The third line contains m integers — the elements of array b (- $10^9 \le b_i \le 10^9$).

Output

Print m integers, separated by spaces: the j-th of which is equal to the number of such elements in array a that are less than or equal to the value b_i .

Examples

input			
5 4 1 3 5 7 9 6 4 2 8			
output			
3 2 1 4			

input				
5 5				
1 2 1 2 5				
3 1 4 1 5				
output				
4 2 4 2 5				

Educational Codeforces Round 2

Finished

→ Virtual participation

Virtual contest is a way to take part in past contest, as close as possible to participation on time. It is supported only ACM-ICPC mode for virtual contests. If you've seen these problems, a virtual contest is not for you - solve these problems in the archive. If you just want to solve some problem from a contest, a virtual contest is not for you - solve this problem in the archive. Never use someone else's code, read the tutorials or communicate with other person during a virtual contest.

Start virtual contest



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→ Contest materials

- Announcement
- Tutorial

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Desktop version, switch to mobile version.