

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

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  $n, m$  ( $1 \leq n, m \leq 2 \cdot 10^5$ ) — the sizes of arrays  $a$  and  $b$ .

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

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

### 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  $b_j$ .

### Examples

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

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

Educational Codeforces Round 2

Finished

Practice



→ 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 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

→ Clone Contest to Mashup

You can clone this contest to a mashup.

Clone Contest

→ Submit?

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

Choose file: Choose File No file chosen

Submit

→ Last submissions

Submission	Time	Verdict
<a href="#">256859124</a>	Apr/16/2024 05:26	Accepted

→ Problem tags

binary search

data structures

sortings

two pointers

\*1300

No tag edit access

→ Contest materials

Announcement (en)

Editorial (en)