

## A. Merging Arrays

time limit per test: 1 second  
memory limit per test: 256 megabytes

For educational purposes, in the problems of this block, the time limit is large enough for the solution to pass in  $O(n \log n)$  time, but try to write the solution in linear time, which we discussed in the lecture.

You are given two arrays, sorted in non-decreasing order. Merge them into one sorted array.

### 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  $n + m$  integers, the merged array.

### Example

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

### → Submit?

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

Choose file: Choose File No file chosen

Submit

