Problem B
Queue

Input File: *testdata.in*
Time limit: 2 seconds

Problem Description

There are three queue (yes, that first in first out data structure): A, B, and C. C is initially empty. Your task is to move all of the data in A and B to C, and make the order of data in C lexicographically minimum. Notice that there is no other space to place data, i.e., once the data in A or B is popped, it should be pushed into C immediately.

Technical Specification

1. Neither A and B has more than 45,000 items.
2. All the data are non-negative integers less than 1,000,000,000.

Input Format

For each test case, there will be three lines of input. The first line consists of two integers, the number of data in A and B. The second line and the third line are the data of A and B respectively.

Output Format

For each test case, output the data of C separated by a space character in a single line.

Sample Input

```
2 3
5 7
1 4 8
2 3
5 7
1 4 4
```

Sample Output

```
1 4 5 7 8
1 4 4 5 7
```