Problem 9: Merge - A TESTING PROBLEM

Overview

In a world of ever growing datasets, one of the most important issues is the combination of disparate sets into a single knowledge base. This problem requires that you merge two data sets into one.

Problem

In this problem, you will be given two strings of integers separated by spaces. The numbers in each dataset will be in non-decreasing order. You are to merge the two strings into a single string that contains the combined dataset. [Note that the inclusion of the word “set” within the word “dataset” should not be taken in a mathematical sense; mathematically defined sets have no order and contain no duplicates. The datasets in this problem are most definitely in order and may contain duplicate elements.] The combined data set should be in non-decreasing order and should contain one element corresponding to each element in one of the two datasets, including duplicates as they may arise.

Input

The input to this problem consists of two lines of text. Each line contains between 1 and 100 (inclusive) integers in non-decreasing order.

Output

The output is a single line of text representing the merged dataset.

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Example 1

Input

1 3 4 5 9
2 8 10 12

Output

1 2 3 4 5 8 9 10 12

Example 2

Input

1 3 3 5 5 9
1 5 5 11

Output

1 1 3 3 5 5 5 9 11

About TESTING PROBLEMS

YOU ARE NOT TO WRITE A SOLUTION TO THIS PROBLEM!!!!

Rather, a flawed solution to this problem exists on the web page referenced by the submission program on your desktop. You must determine an input set for which our solution gives the wrong answer. You will also need to supply the correct output for the input that you submit. Once you have determined these, you must fill in the fields on the web page and submit your answer.