3 Frankenstein's Palindrome

This fall semester, you decided to work as an intern for Dr. Frankenstein. As an intern, you get to watch and learn how Dr. Frankenstein builds his monsters from spare limbs and parts. The practice is a bit unethical, but you enjoy your internship and especially its pay.

As a task, Dr. Frankenstein wants you to create the scariest monster of them all: a palindrome! Dr. Frankenstein will provide you two strings, and you will have to insert the 2nd string into the 1st string so that the resulting string is a palindrome. Make sure not to fail this task or Dr. Frankenstein will not give you a return offer!

3.1 Input

There will be 2 lines of input, each with a single string. Each string consists only of letters and spaces, no special characters.

3.2 Output

A single string that is a palindrome. A palindrome is a word or sentence that reads the same forwards as it does backwards.

The palindrome is the result of inserting the 2nd string anywhere into the 1st string. Spaces do not affect whether a string is a palindrome or not. If a palindrome cannot be made, the output should be "no solution".

3.3 Sample Input/Output

Sample Input 1	Sample Output 1
AManAPlanPanama ACanal	AManAPlanACanalPanama
Sample Input 2	Sample Output 2
Ml ate my metal worm r Ow	Mr Owl ate my metal worm
Sample Input 3	Sample Output 3
Snicker a pickle	no solution