Problem F. Front and Back

I have two strings (sequence of characters) s and t that both have length n. As I am somehow a greedy person, I want to make a new string u from these strings! However, I have a simple condition: The first n characters of u should be equal to s, and the last first n characters of u should be equal to t. Also, I don't like lengthy strings, so the length of u should be as short as possible. Given two strings s and t, write a program that finds any possible u.

Input

Your input consists of an arbitrary number of records, but no more than 50.

Each record is a line that consists of two strings s and t, separated by a space. The length of each string is the same and is at most 100. The strings only consist of English lowercase letters.

The end of input is indicated by a line containing only the value -1.

Output

For each input record, print a line that only contains string u. If there are more than one possible u, print any.

Example

Standard input	Standard output
abc cde f g gg gg -1	abcde fg gg

Time Limit

1 second.