

Problem B

Common Permutation

Time limit: 1 second Memory limit: 1024 megabytes

Problem Description

Given two strings of lowercase letters, a and b, print the longest string x of lowercase letters such that there is a permutation of x that is a subsequence of a and there is a permutation of x that is a subsequence of b.

Input Format

Input file contains several lines of input. Consecutive two lines make a set of input. That means in the input file line 1 and 2 is a set of input, line 3 and 4 is a set of input and so on. The first line of a pair contains α and the second contains b. Each string is on a separate line and consists of at most 1000 lowercase letters.

Output Format

For each set of input, output a line containing x. If several x satisfy the criteria above, choose the first one in alphabetical order.

Sample Input 1

pretty		
women		
walking		
down		
the		
street		

Sample Output 1

	_
е	
nw	
et	
Ct	