



## Problem N: Subsequence and Permutation of String

Time limit: 2s; Memory limit: 512 MB

Given 2 strings  $S$  and  $T$ , find the lexicographically smallest string  $X$  satisfying following conditions:

- $X$  is a subsequence of  $S$ .
- $X$  is a permutation of  $T$ .

### Input

- Each test contains 2 lines.
- The first line is string  $S$  ( $1 \leq |S| \leq 10^5$ ).
- The second line is string  $T$  ( $1 \leq |T| \leq 10^3$ ).
- Both strings only contain lowercase alphabetical characters ( $a \dots z$ ).

### Output

Print string  $X$  which satisfies the given conditions. Otherwise print -1.

### Sample

Input	Output
bcadca dacb	badc
icpccentral nccai	iccna
uuuuuu uzt	-1