Given 2 strings and , find the lexicographically smallest string satisfying following conditions:

* is a subsequence of .
* is a permutation of .

**Input**

Each test contains 2 lines.

The first line is string .

The second line is string .

Both strings only contain lowercase alphabetical characters .

**Output**

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

**Example**

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