

# TWO STRINGS

You are given two strings  $a$  and  $b$ . You have to remove the minimum possible number of **consecutive** (standing one after another) characters from string  $b$  in such a way that it becomes a [submultiset](#) of string  $a$ . It can happen that you will not need to remove any characters at all, or maybe you will have to remove all of the characters from  $b$  and make it empty.

## Input

The first line contains string  $a$ , and the second line — string  $b$ . Both of these strings are nonempty and consist of lowercase letters of English alphabet. The length of each string is no bigger than  $10^5$  characters.

## Output

On the first line output a submultiset of string  $a$  in **sorted** order, obtained from  $b$ . If multiple answer exists, output [lexicographically smallest](#).

If the answer consists of zero characters, output «-» (a minus sign).

## Example

**Input:**

```
abacaba  
abdcba
```

**Output:**

```
aabbc
```

**Input:**

```
abcdy  
abdxybc
```

**Output:**

```
abcd
```

**Note:** Output is abcd not abcy since it's lexicographically smaller.