COCI '13 Contest 5 #3 Eksplozjia

Time limit: 1.0s   **Memory limit:** 32M

Mirko likes to play with strings of characters, but this time he has taken it too far – he put an "explosion" in the string! An explosion is a series of characters which, if found in the vicinity of fire, explodes and starts a chain reaction.

Mirko, being as negligent as he usually is, forgot that his string contained an explosion and placed it near a candlelight. Thus the chain reaction began.

The chain reaction takes place in the following way:

- If a string contains explosions, they **all** explode and a new string is formed by concatenating the pieces **without** the exploding parts.

- This concatenation could possibly create new explosions.

- The chain reaction repeats while there are explosions in the string.

Now Mirko wants to know whether anything will be left after this series of chain reactions. If **nothing** remains, output FRULA . If, by any chance, something is left, output the final string remaining after all the reactions.

Please note: The explosion will not contain two equal characters.

Input Specification

The first line of input contains **Mirko's string**, $(1 \leq |\textbf{Mirko's string}| \leq 1\,000\,000)$.

The second line of input contains **the explosion string**, $(1 \leq |\textbf{explosion}| \leq 36)$.

Both Mirko's string and the explosion string consist of uppercase and lowercase letters of the English alphabet and digits $0, 1, \ldots, 9$.

Output Specification

The first and only line of output must contain the final string remaining after all the reactions as stated in the task.

Scoring

In test cases worth 50% of total points, N will not exceed $3\,000$.

Sample Input 1

```
mirkovC4nizCC44
C4
```

Sample Output 1

```
mirkovniz
```

Sample Input 2

```
12ab112ab2ab
12ab
```

Sample Output 2

```
FRULA
```

Explanation of Sample Output 2

Firstly, the bombs on positions 1 and 6 explode. Then we are left with `****1****2ab` (where `*` marks the character that exploded) and when that string is put together, we get `12ab`. Sadly, that is an explosion all over again so it disappears.