

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” (without quotes). 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

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

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

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

OUTPUT

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 3000.

SAMPLE TESTS

input mirkovC4nizCC44 C4	input 12ab112ab2ab 12ab
output mirkovniz	output FRULA

Clarification of the second example: 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.