

Interception

Time Limit: 1 Second
Memory Limit: 2048 MB

A hostile agent is attempting to send a secret SOS signal to their allies. They have constructed a message string S (of length at most 10^6), which may contain multiple occurrences of a specific codeword pattern T . Your task is to help intercept the signal and remove all instances of this SOS signal T before it can be fully transmitted.

To do this, whenever the codeword T appears in the signal S , you must immediately delete its first occurrence. After each deletion, you must check the updated string again and continue deleting T until the signal contains no instances of the codeword.

Note that deleting one occurrence of T may cause a new occurrence of T to form, so you must keep scanning from the beginning after every deletion.

Your mission is to output the final version of the intercepted signal string after all codewords have been removed.

Input

The input consists of two lines:

- The first line contains the string S (the original signal), where $1 \leq |S| \leq 10^6$.
- The second line contains the string T (the enemy codeword), where $1 \leq |T| \leq 10^6$.

Both strings consist of visible ASCII characters.

Output

Output a single line containing the resulting signal string after all occurrences of the codeword T have been removed.

Sample Inputs

SOSABCSOSD
SOS

Sample Outputs

ABCD
