# Problem 2. Deciphering

*Now that Gencho has filled his dictionary, he starts deciphering the old books to find in which one the relics and their locations are documented.*

You will receive **two lines**. The first one will have an **encrypted string**, which you will have to decode.

On the second line you will receive **two letters or substrings**, separated by **a single space**.  
  
First you will have to decode the first line by **reducing** the ASCII value of each character in it **by 3**.

Then you should get the **two substrings** of the second line. You must find **every** occurrence of the **first substring** in the now decrypted text and replace it with the **second substring**.

Also, you don't know which book you have taken, so you must check if it is **valid**. A valid text contains  
 - only lowercase letters, from **'d'** onwards, and the symbols **'{'**, **'}'**, **'|'**, **'#'**.

If the text is invalid, you should not try to decipher it and you should print **"This is not the book you are looking for."**.

## Input

Two lines, one with text to decipher and one with two substrings to replace in the text.

## Output

One line with the deciphered text.

## Examples

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| **Input** |
| wkhfn#|rx#jhqfkr#phf#exw#|rxu#uholf#lv#khfgohg#lq#hfrwkhu#sohfhw  ec an |
| **Output** |
| thank you gencho man but your relic is handled in another planet |

|  |
| --- |
| **Input** |
| arx#vkdww#qrw#sdvv  t l |
| **Output** |
| This is not the book you are looking for. |