## 6108. Decode the Message

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You are given the strings key and message, which represent a cipher key and a secret message, respectively. The steps to decode message are as follows:

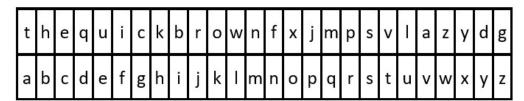
- 1. Use the **first** appearance of all 26 lowercase English letters in key as the **order** of the substitution table.
- 2. Align the substitution table with the regular English alphabet.
- 3. Each letter in message is then **substituted** using the table.
- 4. Spaces ' ' are transformed to themselves.
- For example, given key = "happy boy" (actual key would have at least one instance of each letter in the alphabet), we have the partial substitution table of ('h' -> 'a', 'a' -> 'b', 'p' -> 'c', 'y' -> 'd', 'b' -> 'e', 'o' -> 'f').

User Accepted:	0
User Tried:	0
Total Accepted:	0
Total Submissions:	0
Difficulty:	Easy

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Return the decoded message.

## Example 1:



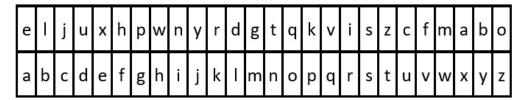
 $\textbf{Input:} \ \, \text{key = "the quick brown fox jumps over the lazy dog", message = "vkbs bs t suepuv"}$ 

Output: "this is a secret"

Explanation: The diagram above shows the substitution table.

It is obtained by taking the first appearance of each letter in "the quick brown fox jumps over the lazy dog".

## Example 2:



Input: key = "eljuxhpwnyrdgtqkviszcfmabo", message = "zwx hnfx lqantp mnoeius ycgk vcnjrdb"

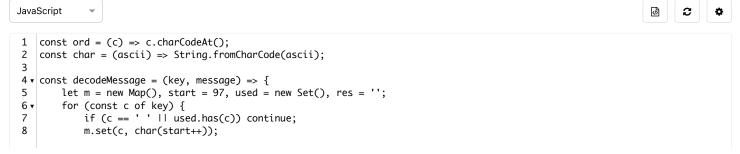
Output: "the five boxing wizards jump quickly"

Explanation: The diagram above shows the substitution table.

It is obtained by taking the first appearance of each letter in "eljuxhpwnyrdgtqkviszcfmabo".

## Constraints:

- 26 <= key.length <= 2000
- key consists of lowercase English letters and ' '.
- key contains every letter in the English alphabet ( 'a' to 'z') at least once.
- 1 <= message.length <= 2000
- $\bullet$   $\,$  message consists of lowercase English letters and ' '.



Submission Result: Accepted (/submissions/detail/737052626/)

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