**Q** Search

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# The Pharaoh's Fortune: Can You help the King Kufu?

Problem

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Back in the time of ancient pyramids, the greatest **King Kufu** has a special technique to generate a secret word to make records of the locations **(L)** of his gold. He used his two wives' names **Setepenre (str1)** and **Meritatof (str2)** to generate this secret word respected to each location.

He matches each character in two strings one by one. **s=m**, **e=e**, **t=r**, **e=i** ... These similar characters follows the rules of equivalence relation; **reflexivity**, **symmetry** and **transitivity**. To generate the secret word which matches the location **(L)** Heliopolis, he matches each letter in L with the **first most letter alphabetically** in each similar letter sets. Letters in L which **aren't present** in **s1**,**s2 won't be changed**.

#### Example:

- str1=setepenre
- str2=meritatof
- l=heliopolis
- Similar character sets :  $\{m,s\},\{a,i,e,f\},\{n,o,p,r,t\}$
- Secret word : halannnlam

Later the king realized that using only his wives names all the time to generate the secret word is not safe for his gold stores. Therefore, he has assigned you to generate the secret word when str1, str2 and L is given. Can you help him keep his treasure safe?

# **Input Format**

First two lines contain str1 and str2.

Next line contains L.

## Constraints

- All the strings contain lowercase letters.
- str1.length==str2.length
- 1<= str1.length,str2.length,L.length <=1000

#### **Output Format**

• Print L in the console.

## Sample Input 0

setepenre meritatof heliopolis

## Sample Output 0

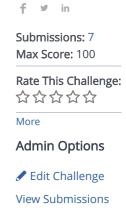
halannnlam

## Sample Input 1

cleopatra nefertiti alexandria

# Sample Output 1

aeexacdaaa



```
C++
                                                                                                                  Ö
   1 <del>▼</del> #include <cmath>
      #include <cstdio>
   2
      #include <vector>
   3
      #include <iostream>
   5
      #include <algorithm>
   6
      using namespace std;
   8
   9 → int main() {
  10 🔻
           /* Enter your code here. Read input from STDIN. Print output to STDOUT */
           return 0;
  11
      }
  12
  13
                                                                                                          Line: 1 Col: 1
<u>1</u> <u>Upload Code as File</u>
                          Test against custom input
                                                                                            Run Code
                                                                                                         Submit Code
```

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