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

locked

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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
```

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C++

```cpp
#include <cmath>
#include <cstdio>
#include <vector>
#include <iostream>
#include <algorithm>
using namespace std;


int main() {
    /* Enter your code here. Read input from STDIN. Print output to STDOUT */
    return 0;
}

```

Line: 1 Col: 1

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