

# Mock CCC '21 S1 - Edit Distance

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**Time limit:** 0.25s    **Memory limit:** 1G

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Given a string, an operation consists of either adding, changing, or removing one letter. The string must change.

Given an alphabet and an original string, compute all strings which are attainable from that string using one operation.

## Constraints

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$$1 \leq |S| \leq 100$$

## Input Specification

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The first line contains a string of lowercase letters, the alphabet of letters to use.

The second line contains the original string  $S$ .

## Output Specification

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Output all such strings in sorted order.

## Sample Input

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```
eg  
egg
```

## Sample Output

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```
eeg  
eegg  
eg  
ege  
egeg  
egge  
eggg  
gegg  
gg  
ggg
```