
Third word

P58037_en

You have a word, and you can change the order of its letters however you like. Of all the possible results, which would be the third, in alphabetical order?

Input

Input consists of several non-empty words s , each with at most 10^5 lowercase letters.

Output

For every s , among all the possible reorderings of its letters, print the third in alphabetical order. If there is no such third word, print "NO".

Sample input

```
tca  
baba  
z
```

Sample output

```
cat  
abba  
NO
```

Problem information

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