

Word Scrambler

Looking to find some clever anagrams, you want a helper tool that will list all possible arrangements of letters for a given source word. To make the list easier to scan, the output should be in ascending sorted order.

Input Specification:

The input will consist of one string of lower-case alphabet characters, at least **1** character long, and no more than **5**.

Output Specification:

The output should contain **all the possible combinations** of letters in the word, **sorted alphabetically**.

To make things easier, all of the letters in each word are guaranteed to be unique (so then every combination will also be unique).

Note: since there are $n!$ possibilities for combinations of n letters, you can use that fact to check that you have the right number of possibilities in your output.

Sample Input:

```
abc
```

Sample Output:

```
abc  
acb  
bac  
bca  
cab  
cba
```