

Permutations Words-I

1. You are given a word (may have one character repeat more than once).
2. You are required to generate and print all arrangements of these characters.

Note -> Use the code snippet and follow the algorithm discussed in question video. The judge can't force you but the intention is to teach a concept. Play in spirit of the question.

Input Format

Input is managed for you

Constraints

$0 < \text{str.length}() \leq 4$

Sample Input

aabb

Sample Output

aabb
abab
abba
baab
baba
bbaa

```
def permutationWords1(string):  
    freqmap = {}  
    for ele in string:  
        if ele in freqmap:  
            freqmap[ele] = freqmap[ele] + 1  
        else:  
            freqmap[ele] = 1  
    res = []  
    r = len(string)  
    permutationWordsUtil(freqmap, '', r, string, 0)  
  
def permutationWordsUtil(freqmap, ssf, r, string, totalItems):  
    if totalItems == r:  
        print(ssf)
```

```
        return
    for key in freqmap.keys():
        if freqmap[key] > 0:
            freqmap[key] = freqmap[key] - 1
            permutationWordsUtil(freqmap, ssf + key, r, string, totalItems
+ 1)
            freqmap[key] = freqmap[key] + 1

permutationWords1('aabbcbba')
```

When letters repeat then make sure you use a dictionary and then recur only on unique characters