Words - K Selection - 3

1. You are given a word (may have one character repeat more than once). 2. You are given an integer k. 2. You are required to generate and print all ways you can select k characters out of the word. 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.

Constraints

0 < str.length() < 15 0 < k <= str.length()

Format

Input

Input is managed for you

Output

Check the sample ouput and question video.

Example

Sample Input

aabbbccdde

3

aab aac aad aae abb abc abd abe acc acd ace add ade bbb bbc bbd bbe bcc bcd bce bdd bde ccd cce cdd cde dde

```
import collections
def wordsKSelectionIII(s,k):
    fmap = collections.Counter(s)
    s = sorted(''.join(list(set(s))))
    ans = []
    helper(s,ans,fmap,0,'',k)
    return ans


def helper(s,ans,fmap,idx,ssf,k):
    if k<0:
        return
```

```
    if idx==len(s):
        if k == 0:
            ans.append(ssf)
        return
    ch = s[idx]
    n = fmap[ch]
    for i in range(n,-1,-1):
        temp = ''
        for j in range(i):
            temp+= ch
        helper(s,ans,fmap,idx+1,ssf+temp,k-i)



print(wordsKSelectionIII('aabbbccdde',3))
```