Ganesh Bhandarkar 1806554 (T&T lab) Test

In [43]:

```
import collections
with open("wordanagram.txt", "r") as file:
    allopt = file.read()
    choices = list(map(str, allopt.split()))
r = []
m = len(choices)
for i in choices:
    res = ''.join(sorted(i))
    r.append(res)
    res = ''
y = set(r)
n = len(y)
occurrences = collections.Counter(r)
print(occurrences)
print("no of anagrams",": ",m-n)
```

```
Counter({'cenorstu': 8, 'adel': 8, 'aclps': 6, 'cdeo': 6, 'acdeerrt': 6, 'celru': 6, 'ce
orst': 5, 'eemrst': 2, 'imnsu': 1, 'eimntu': 1, 'eimnstu': 1, 'aceilmr': 1, 'imorrr': 1,
'imorrrs': 1, 'cims': 1, 'aceeillmnossu': 1, 'imss': 1, 'deimss': 1, 'eiilmss': 1, 'giim
nss': 1, 'iimnoss': 1, 'iimnosss': 1, 'iiiimppssss': 1, 'iimorssu': 1, 'aeikmst': 1, 'ae
ikmsst': 1, 'eimrssst': 1, 'ae': 1, 'aaeilr': 1, 'aaceeoprs': 1, 'af': 1, 'aaffir': 1,
'aaffirs': 1, 'acefft': 1, 'acdeefft': 1, 'aceffgint': 1, 'aceffst': 1, 'aaeffiilt': 1,
'aadeffiilt': 1, 'aaeffiilst': 1, 'aaffiiilnot': 1, 'adffor': 1, 'aabdefflor': 1, 'aaafg
hinnst': 1, 'aadfir': 1, 'aacfir': 1, 'aacfinr': 1, 'aefrt': 1, 'aefnnoort': 1, 'aadefrr
stw': 1, 'ag': 1, 'aagin': 1, 'aaginst': 1, 'aeg': 1, 'aceil': 1, 'aeiln': 1, 'agiln':
1, 'aegilmnnt': 1, 'aeikl': 1, 'aeilv': 1, 'all': 1, 'aahll': 1, 'aalln': 1, 'adeegll':
1, 'aelln': 1, 'aegllry': 1, 'aaceilln': 1, 'adeill': 1, 'aacdellot': 1, 'aacillnoot':
1, 'allow': 1, 'aacellnow': 1, 'adellow': 1, 'agillnow': 1, 'allosw': 1, 'abceelloorsstt
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'aaccdeim': 1, 'aaccdeims': 1, 'aacdemy': 1, 'acc': 1, 'accent': 1, 'accept': 1, 'aabcce
elpt': 1, 'aaccceenpt': 1, 'accdeept': 1, 'acceginpt': 1, 'accepst': 1, 'access': 1, 'ac
cdeess': 1, 'abcceiiilssty': 1, 'abcceeilss': 1, 'acceginss': 1, 'acceeiorsss': 1, 'acce
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mnooost': 1, 'aaccdeimnop': 1, 'aaccgimnnopy': 1, 'acchilmops': 1, 'accdehilmops': 1, 'a
acccdenor': 1, 'accdginor': 1, 'accdgilnory': 1, 'accnotu': 1, 'aabcciilnottuy': 1, 'acc
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u': 1, 'aaccelrtuy': 1, 'accdesu': 1, 'abcdeintty': 1, 'ace': 1, 'acer': 1, 'aceehiv':
1, 'acdeehiv': 1, 'aceeehimntv': 1, 'aceeehimnstv': 1, 'aceghiinv': 1, 'acdi': 1, 'acdi
s': 1, 'acdeegklnow': 1, 'acddeegklnow': 1, 'acm': 1, 'acen': 1, 'aceillmt': 1, 'aaceill
mt': 1, 'aelmst': 1, 'eemrt': 1, 'dehmot': 1, 'deghlmoooty': 1, 'dehmost': 1, 'ceimrt':
1, 'emort': 1, 'aeilmnooprtt': 1, 'aceimnx': 1, 'ceimox': 1, 'eemry': 1})
no of anagrams :  39
```

2

In [45]:
```
# x = ["ram","sham","cool","folo","empty","hut"]
# words = ["ram"]
# y = list(lambda x: [' '.join(w for w in x.split() if w not in words)])
# print(y)
#x = lambda x: [x for x in x if x not in ["name", "is", "m"]]
```

In [35]:
```
def isSortedlist(nums, k=lambda x: x):
    for i, e in enumerate(nums[1:]):
        if k(e) < k(nums[i]):
            return False
    return True
n1 = [1,2,4,6,8,10,12,14,16,17]
print(n1)
print(isSortedlist(n1))
```

```
[1, 2, 4, 6, 8, 10, 12, 14, 16, 17]
True
```

In [44]:
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In [ ]:
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