

11. Sort Characters By Frequency Given a string *s*, sort it in decreasing order based on the frequency of the characters. The frequency of a character is the number of times it appears in the string. Return the sorted string. If there are multiple answers, return any of the

Code:

```
from collections import Counter

def frequency_sort(s:str) -> str:

    count = Counter(s)

    sorted_chars = sorted(count.keys(), key=lambda x: count[x], reverse=True)

    result = ''.join(char * count[char] for char in sorted_chars)

s="tree"

print(frequency_sort(s))
```

output:



```
PS C:\Users\karth>
PS C:\Users\karth> & c:/Users/karth/AppData/Local/Programs/Python/Python312/python.exe c:/Users/karth/OneDrive/Desktop/daa.py
eetr
PS C:\Users\karth>
```

Time complexity:

$F(n)=O(n)$