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Leetcode May Challenge DAY: 22

1. Python

class Solution(object):

def frequencySort(self, s):

"""

:type s: str

:rtype: str

"""

from collections import Counter

c = Counter(s)

l = []

for i in c: l.append([i, c[i]])

l = sorted(l, key=lambda x: x[-1], reverse = True)

return "".join(i[0]*i[1] for i in l)

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2. C++

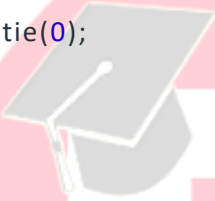
```
class Solution {
public:

    string frequencySort(string s)
    {
        int i,a[256]={0},j;
        string ans="";
        map<int,set<char> > mp ;
        for(i=0;s[i];i++)
        {
            a[s[i]]++;
        }
        for(i=0;s[i];i++)
        {
            mp[a[s[i]]].insert(s[i]);
        }
        map<int,set<char> > :: iterator it;
        set<char> :: iterator ii;
        for(it=mp.begin();it!=mp.end();it++)
        {
            for(ii=it->second.begin();ii!=it->second.end();ii++)
            {
                for(j=0;j<it->first;j++)
                {
                    ans+=*ii;
                }
            }
        }
    }
}
```

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```
        reverse(ans.begin(),ans.end());  
  
        return ans;  
    }  
};  
  
static int fastio = []() {  
    std::ios::sync_with_stdio(false);  
    std::cin.tie(NULL);  
    std::cout.tie(0);  
    return 0;  
}();
```



ENGINEERING LIBRARY

3. JAVA

```
class Solution {  
    public String frequencySort(String s) {  
  
        //initialising res  
        StringBuilder res = new StringBuilder();  
        if(s==null || s.length()==0){  
            return res.toString();  
        }  
  
        //initialise hashmap and add all the char from string s in the map with freq  
        HashMap<Character,Integer> map = new HashMap<>();  
        for(char c: s.toCharArray()){  
            map.put(c, map.getDefault(c,0)+1);  
        }  
  
        //initialise a list  
        List<Character> [] bucketlist = new List[s.length() + 1];  
        for (char key : map.keySet()) {  
            // build a frequency list of each char in map  
            int freq = map.get(key);  
            if (bucketlist[freq] == null) {  
                bucketlist[freq] = new ArrayList<Character>();  
            }  
            bucketlist[freq].add(key);  
        }  
    }  
}
```

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//iterate through bucketlist and append the character in result string frequency times.

```
for (int i = bucketlist.length-1; i >= 0; i--) {  
    if (bucketlist[i] != null) {  
        for (char c : bucketlist[i]) {  
            // append 'frequency' times  
            for (int j = 0; j < i; j++) {  
                res.append(c);  
            }  
        }  
    }  
}  
//return result  
return res.toString();  
}  
}
```