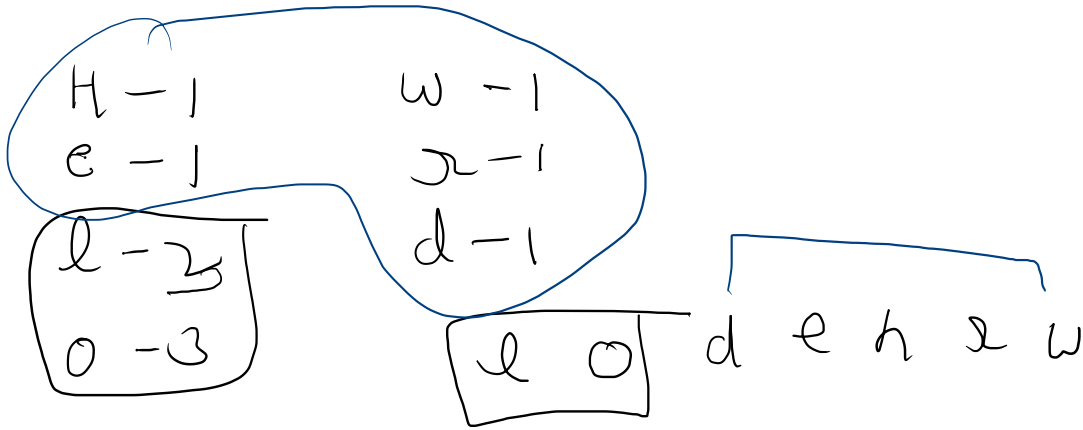


K Frequent Characters (28 July)

Eg str = H e l l o o . w o r l d l . $k = 2$

$k = 2$



1st high freq char - , 2nd high freq - 3rd - 4th -

hello world

d-1 l-3 w→1

e-1 o→3

h-1 r→1

maxFreq = ~~3~~ 2 / 0

l o

```
int[] freqMap = getFreqMap(str); // constant 26 size array  
int maxFreq = getMaxFreq(freqMap);  
while (k > 0) {  
    boolean isFreqFound = false;  
    for (int i = 0; i < freqMap.length; i++) {  
        if (freqMap[i] == maxFreq) {  
            char ch = getCharFromIdx(i);  
            System.out.print(ch + " ");  
            isFreqFound = true;  
        }  
    }  
    maxFreq--;  
    if (isFreqFound) {  
        k--;  
    }  
}
```

freq map $\rightarrow O(n)$ $n \rightarrow \text{len of str}$

26 freq array

↓ sort

~~26 log 26~~

constant

Arrays.sort(arr)

l	o
3	3
└───┘	
k=2	

d	e	r
1	1	1
└───┘		
k=1		

k=0



hello world

l o h e,
h-x1

$\rightarrow h \rightarrow 1$
 $\rightarrow e \rightarrow 1$
 $\rightarrow w \rightarrow 1$
 $\rightarrow x \rightarrow 1$
 $\rightarrow d \rightarrow 1$

$l \rightarrow 3$
 $o \rightarrow 3$

26 size
constant

max f = 321

check
is found
max f in 5 map

$\leftarrow flog = flog \times T$

while(h != 0) {

max f = -
if (flog == T)
h = -1;