Engineering Animuthyam Java DSA – Course Part - 38 Sliding Window or Two pointers Concept and Leetcode Problem

Course Link:

https://www.youtube.com/playlist?list=PLjzLBp9HHZWhVXBSPS1VqxXXDoVk07gd9

Website Link:

https://www.vigneshreddyjulakanti.in/

Hello machas, Bagunnara

Concepts

How return works in functions

Example: Two strings equal or not

How to send HashMap as a parameter into function.

Comparing two values in HashMap(127)

How to compare two HashMaps equal or not.

How to check If two strings are anagrams or not

```
import java.util.*;
class HelloWorld {
    public static void main(String[] args) {
        HashMap<Integer,Integer> a=new HashMap<>();
        HashMap<Integer,Integer> b=new HashMap<>();
        a.put(5,128);
        b.put(6,128);
        System.out.println(a.get(5)==b.get(6));
    }
}
```

438. Find All Anagrams in a String https://leetcode.com/problems/find-all-anagrams-in-a-string/

```
class Solution {
   public boolean AreEqual(HashMap<Character,Integer> hms,HashMap<Character,Integer> hmp){
      if(hms.size()!=hmp.size()){
            System.out.println("a");
            return false;
      }

      for(char key:hms.keySet()){
        if(!hmp.containsKey(key)){
            | System.out.println("b");
            return false;
        }
      int a=hms.get(key);
      int b = hmp.get(key);
      if(a!=b){
            System.out.println(hms.get(key)+" "+hmp.get(key)+" "+key);
            System.out.println(a!=b);
            | System.out.println("c");
            return false;
      }
    }
    System.out.println("d");
    return true;
}
```

```
public List<Integer> findAnagrams(String s, String p) {
    HashMap <Character,Integer> hmp = new HashMap<>();
    for(int i=0;i<p.length();i++){</pre>
        char ch = p.charAt(i);
        hmp.put(ch,hmp.getOrDefault(ch,0)+1);
    int l = 0;
    int k = p.length();
    List<Integer> ans = new ArrayList<>();
   HashMap <Character,Integer> hms=new HashMap<>();
    for(int r=0;r<s.length();r++){</pre>
        char ch=s.charAt(r);
        hms.put(ch,hms.getOrDefault(ch,0)+1);
        if(r-l==k){
            char tch=s.charAt(1);
            hms.put(tch,hms.getOrDefault(tch,0)-1);
            if(hms.get(tch)==0){
               hms.remove(tch);
            1++;
        if(l==0 \&\& r==l+k-1){}
            System.out.println(hms.size()==hmp.size());
            System.out.println(hmp);
            System.out.println((r-l+1)+" "+k);
        if(r-l+1==k && AreEqual(hms,hmp)){
            ans.add(1);
   return ans;
```