Engineering Animuthyam

Java DSA – Course Part - 42
Sliding Window or Two pointers

Important update at last about this course

Hard Leetcode Problem

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

Website Link:
https://www.vigneshreddyjulakanti.in/

Hello machas, Bagunnara

992. Subarrays with K Different Integers

https://leetcode.com/problems/subarrays-with-k-different-integers/description/

Now we will first cover easy and medium problems in a topic first. So now we covered some of the good problems , then after covering other topics easy and medium problems , then we will come back to two pointer problems which are not that straight forward to solve.

```java
class Solution {
    public int atMostk(int[] nums,int k){
        int l = 0;
        int ans = 0;
        int n = nums.length;
        HashMap <Integer,Integer> hm = new HashMap<>();
        for(int r=0;r<n;r++){
            int val = nums[r];
            hm.put(val,hm.getOrDefault(val,0)+1);

            while(hm.size()>k){
                int lval= nums[l];
                hm.put(lval,hm.get(lval)-1);
                if(hm.get(lval) == 0){
                    hm.remove(lval);
                }
                l++;
            }


            ans+=r-l+1;

        }
        return ans;
    }
    public int subarraysWithKDistinct(int[] nums, int k) {
        return atMostk(nums,k)-atMostk(nums,k-1);
    }
}
```