Engineering Animuthyam

Java DSA – Course Part - 36
Sliding Window or Two pointers

Hello machas, Bagunnara

Variable Size Sliding Window.

Leetcode Problem

3. Longest Substring Without Repeating Characters

https://leetcode.com/problems/longest-substring-without-repeating-characters/description/

3

```java
public int lengthOfLongestSubstring(String s) {
    HashSet<Character> hs = new HashSet<>();
    int n=s.length();
    int l = 0;
    int ans = 0;
    for(int r=0;r<n;r++){
        char ch=s.charAt(r);
        if(!hs.contains(ch)){
            hs.add(ch);
        }else{
            while(hs.contains(ch)){
                hs.remove(s.charAt(l));
                l++;
            }
            hs.add(ch);
        }

        ans=Math.max(ans,r-l+1);

    }
    return ans;
}
```