Engineering Animuthyam Java DSA – Course Part - 31 Sliding Window or Two pointers

Course Link:

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

Website Link:

https://www.vigneshreddyjulakanti.in/

Hello machas, Bagunnara

Variable Size Sliding Window.

Bus has front door and back door.

People are in line will enter from front door, exit from back door.

Fixed Size sliding Window.

If it can only have 3 people what will be the maximum weight it will have.

Variable Size Sliding Window.

If It can accomated 10 kg max weight, what is maximum number of people it can have.

Fixed sized sliding window

```
import java.util.*;
class HelloWorld {
    public static void main(String[] args) {
        int arr[]={ 9 , 3, 4 ,8 , 1 };
        int k = 3;
        int l = 0;
        int ans = 0;
        int temp = 0;
        int n= arr.length;
        for(int r=0;r<n;r++){
            temp+=arr[r];
            if(r-1 == k){
                temp-=arr[1];
                1++;
            if(r-l+1 == k){
                ans = Math.max(ans, temp);
            }
        System.out.println(ans);
    }
```

Variable size sliding window.

```
import java.util.*;
class HelloWorld {
    public static void main(String[] args) {
        int arr[]={ 9 , 3, 4 ,1, 1 };
        int k=10;
        int 1 = 0;
        int ans = 0;
        int temp = 0;
        int n= arr.length;
        for(int r=0;r<n;r++){</pre>
            temp+=arr[r];
            while(temp > k){
                temp-=arr[1];
                1++;
            }
             ans = Math.max(ans, r-l+1);
        System.out.println(ans);
    }
```