

Date: 18.1.2024

Session Topic: Sliding Window

Task 2

Question: Longest Even Odd Subarray With Threshold

Solution:

```
class Solution {

    public int longestAlternatingSubarray(int[] nums, int threshold) {

        int max=0;

        for(int i=0;i<nums.length;i++)

        {

            if(nums[i]%2==0 && nums[i]<=threshold)

            {

                int count=1;

                for(int j=i;j<nums.length-1;j++)

                {

                    if(nums[j]%2!=nums[j+1]%2 && nums[j+1]<=threshold)

                    {

                        count++;

                    }

                    else

                    {

                        break;

                    }

                }

                max=Math.max(max, count) ;

            }

        }

    }

}
```

```

    }

    }

    return max;

    }

}

```

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Task 3

Question: Minimum Size Subarray Sum

Solution:

```

class Solution {

    public int minSubArrayLen(int target, int[] nums) {

        int left=0,sum=0,min=Integer.MAX_VALUE;

        for(int right=0;right<nums.length;right++)

        {

            sum+=nums[right];

            while(sum>=target)

            {

                sum-=nums[left];

                min=Math.min(min,right-left+1);

                left++;

            }

        }

        if(min==Integer.MAX_VALUE)

```

```
    {  
  
        return 0;  
  
    }  
  
    return min;  
  
}  
  
}
```

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Task 4

Question: Max Consecutive Ones III

Solution:

```
class Solution {  
  
    public int longestOnes(int[] nums, int k) {  
  
        int max=0;  
  
        int right=0, left=0;  
  
        for(int i=0; i<nums.length; i++)  
  
        {  
  
            int count=k;  
  
            for(int j=i; j<nums.length; j++)  
  
            {  
  
                if(nums[j]==1)  
  
                {  
  
                    max=Math.max(max, j-i+1);  
  
                }  
  
                else if(nums[j]==0)
```

```

        {

            if(count>=1)

            {

                count--;

                max=Math.max(max,j-i+1);

            }

            else

            {

                break;

            }

        }

    }

    return max;

}

}

```

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Task 5

Question: Count Number of Nice Subarrays

Solution:

```

class Solution {

    public int numberOfSubarrays(int[] nums, int k) {

        if(nums == null || nums.length == 0) return 0;

        int max=0;
    }
}

```

```
for(int i=0;i<nums.length;i++)

{

    if(nums[i]%2==0)

    {

        nums[i]=0;

    }

    else

    {

        nums[i]=1;

    }

}

int sum=0;

Map<Integer,Integer>map=new HashMap<>();

for(int i:nums)

{

    sum+=i;

    if(sum==k)

    {

        max++;

    }

    map.put(sum,map.getOrDefault(sum,0)+1);

    if(map.containsKey(sum-k))

    {

        max+=map.get(sum-k);

    }

}
```

```
        return max;

    }

}
```

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Task 6

Question: Is Subsequence

Solution:

```
class Solution {

    public boolean isSubsequence(String s, String t) {

        int i=0;

        for(int j=0;j<t.length() && i<s.length();j++)

        {

            if(t.charAt(j)==s.charAt(i))

            {

                i++;

            }

        }

        return i==s.length();

    }

}
```

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Task 7

Question:Sort Colors

Solution:

```
class Solution {  
  
    public void sortColors(int[] nums) {  
  
        Arrays.sort(nums);  
  
    }  
  
}
```

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Task 8

Question: . Reverse Words in a String

Solution:

```
class Solution {  
  
    public String reverseWords(String s) {  
  
        s=s.trim();  
  
        String arr[]=s.split(" ");  
  
        StringBuilder sb = new StringBuilder();  
  
        StringBuilder sb1 = new StringBuilder();  
  
        for(int i=arr.length-1;i>=0;i--)  
  
        {  
  
            sb1.append(arr[i]);  
  
            if (sb1.length()!=0)  
  
            {  
  
                sb.append(arr[i]);  
  
                sb.append(" ");  
  

```

```
    }

    sb1.setLength(0);

}

return sb.toString().trim();

}

}
```