CountNoOfNiceSubarray.java

```
1   package SlidingWindow;
2
3   import java.util.HashMap;
4
5   public class CountNoOfNiceSubarray {
6       //Approach-1-using HashMap
7       public static int numberOfSubarraysApproach1(int[] nums, int k) {
8
9           HashMap<Integer,Integer> map = new HashMap<>();
10
11          int count = 0;
12
13          int res = 0;
14
15          map.put(0,1);
16
17 2        for(int i = 0;i<nums.length ; i++){
18
19
20 3            if( nums[i]%2 != 0 ) count++;
21
22
23 2            res += map.getOrDefault( count - k , 0 );
24
25 1            map.put( count , map.getOrDefault( count , 0 ) + 1 );
26
27
28          }
29
30 1        return res;
31
32      }
33
34      //Approach-2-using SlidingWindow
35      public static int numberOfSubarraysApproach2(int[] nums, int k) {
36
37          int i = 0 , j = 0;
38
39          int count = 0;
40
41          int res = 0 , final_ans = 0 ;
42
43 2         count += nums[0]%2;
44
45 2        for (   ; j<nums.length; ){
46
47
48
49 1            if(count == k)
50              {
51 1                res++;
52
53 1                j++;
```

```
54
55 4                 count += j<nums.length ? nums[j]%2 : 0;
56                 }
57 2             else if(count>k){
58
59 1                 final_ans += res;
60
61 2                 count -= nums[i]%2;
62
63 1                 if(count==k) res = 0;
64
65 1                 i++;
66                 }
67                 else{
68
69 1                 j++;
70
71 4                 count += j<nums.length ? nums[j]%2 : 0;
72
73                 }
74
75
76
77
78             }
79
80 1           while( count == k )
81             {
82 1              final_ans += res;
83
84 2              count-=nums[i]%2;
85
86 1              i++;
87             }
88
89 1           return final_ans;
90
91         }
92     }
```

Mutations

17	1. negated conditional → KILLED 2. changed conditional boundary → KILLED
20	1. Changed increment from 1 to -1 → KILLED 2. Replaced integer modulus with multiplication → KILLED 3. negated conditional → KILLED
23	1. Replaced integer subtraction with addition → KILLED 2. Replaced integer addition with subtraction → KILLED
25	1. Replaced integer addition with subtraction → KILLED
30	1. replaced int return with 0 for SlidingWindow/CountNoOfNiceSubarray::numberOfSubarraysApproach1 → KILLED
43	1. Replaced integer modulus with multiplication → KILLED 2. Replaced integer addition with subtraction → KILLED
45	1. changed conditional boundary → KILLED 2. negated conditional → KILLED
49	1. negated conditional → KILLED
51	1. Changed increment from 1 to -1 → KILLED
53	1. Changed increment from 1 to -1 → KILLED

55	1. Replaced integer addition with subtraction → KILLED 2. changed conditional boundary → KILLED 3. negated conditional → KILLED 4. Replaced integer modulus with multiplication → KILLED
57	1. changed conditional boundary → SURVIVED 2. negated conditional → KILLED
59	1. Replaced integer addition with subtraction → KILLED
61	1. Replaced integer modulus with multiplication → KILLED 2. Replaced integer subtraction with addition → KILLED
63	1. negated conditional → KILLED
65	1. Changed increment from 1 to -1 → KILLED
69	1. Changed increment from 1 to -1 → KILLED
71	1. changed conditional boundary → KILLED 2. Replaced integer modulus with multiplication → KILLED 3. Replaced integer addition with subtraction → KILLED 4. negated conditional → KILLED
80	1. negated conditional → KILLED
82	1. Replaced integer addition with subtraction → KILLED
84	1. Replaced integer subtraction with addition → SURVIVED 2. Replaced integer modulus with multiplication → KILLED
86	1. Changed increment from 1 to -1 → KILLED
89	1. replaced int return with 0 for SlidingWindow/CountNoOfNiceSubarray::numberOfSubarraysApproach2 → KILLED

Active mutators

- CONDITIONALS_BOUNDARY
- EMPTY_RETURNS
- FALSE_RETURNS
- INCREMENTS
- INVERT_NEGS
- MATH
- NEGATE_CONDITIONALS
- NULL_RETURNS
- PRIMITIVE_RETURNS
- TRUE_RETURNS
- VOID_METHOD_CALLS

Tests examined

- SlidingWindow.CountNoOfNiceSubarrayTest.testApproach1(SlidingWindow.CountNoOfNiceSubarrayTest) (0 ms)
- SlidingWindow.CountNoOfNiceSubarrayTest.testApproach2(SlidingWindow.CountNoOfNiceSubarrayTest) (0 ms)

Report generated by PIT 1.15.0