NoOfSubstringContainsthreeChar.java

```
package SlidingWindow;
1
2
3
    public class NoOfSubstringContainsthreeChar {
4
         //Approch-1-BruteForce
5
         public int numberOfSubstringsApproch1(String s) {
6
             int l1 = -1;
7
             int l2 = -1;
             int 13 = -1;
8
9
             int result = 0;
10 2
             for (int i=0; i<s.length(); i++) {
11 <u>1</u>
                  if (s.charAt(i) == 'a')
12
                      l1 = i;
131
                  else if (s.charAt(i) == 'b')
14
                      12 = i;
15
                  else
16
                      13 = i;
17
                  int minimum = Math.min(l1, Math.min(l2, l3));
18 2
                  result += minimum + 1;
19
20 1
             return result;
21
22
23
         //Approach-2-SlidingWindow
24
         public static int numberOfSubstringsApproch2(String s) {
25
             int [] count = new int[]{0, 0, 0};
26
             int i = 0;
27
             int result = 0;
28 2
             for (int j=0; j<s.length(); j++) {
29 2
                  count[s.charAt(j) - 'a'] += 1;
                 while (count[0] > 0 \&\& count[1] > 0 \&\& count[2] > 0) {
306
                      count[s.charAt(i++) - 'a'] -= 1;
313
32
33 1
                  result += i;
34
35 1
             return result;
36
         }
37
    }
    Mutations

    negated conditional → KILLED

<u>10</u>
    2. changed conditional boundary → KILLED
11 1. negated conditional → KILLED

    negated conditional → SURVIVED

13

    Replaced integer addition with subtraction → KILLED

<u>18</u>
    2. Replaced integer addition with subtraction \rightarrow KILLED

    replaced int return with 0 for
SlidingWindow/No0fSubstringContainsthreeChar::numberOfSubstringsApproch1 → KILLED

<u>20</u>

    negated conditional → KILLED

<u>28</u>
    2. changed conditional boundary → KILLED
    1. Replaced integer addition with subtraction → KILLED
29
    2. Replaced integer subtraction with addition \rightarrow KILLED

    changed conditional boundary → KILLED

 changed conditional boundary → KILLED

    negated conditional → KILLED
    changed conditional boundary → KILLED

30
    5. negated conditional → KILLED
    negated conditional → KILLED
```

2. Replaced integer subtraction with addition \rightarrow KILLED

Replaced integer subtraction with addition → KILLED

1. Changed increment from 1 to $-1 \rightarrow KILLED$

<u>31</u>

- Replaced integer addition with subtraction → KILLED
- 1. replaced int return with 0 for
- SlidingWindow/NoOfSubstringContainsthreeChar::numberOfSubstringsApproch2 → 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

- $\bullet \ \ Sliding Window. No Of Substring Contains Three Char Test. test Approach 1 (Sliding Window. No Of Substring Contains Three Char Test)$
- $\dot{S} liding Window. No Of Substring Contains Three Char Test, test Approach 2 (Sliding Window. No Of Substring Contains Three Char Test)$ (0 ms)

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