CountDistinctSubsequences.java

```
1    package com.example.string;
2
3    import java.util.HashMap;
4
5    public class CountDistinctSubsequences {
6        public int countSub(String s) {
7            HashMap<Character, Integer> map = new HashMap<Character, Integer>();
8 2          for (int i = 0; i < s.length(); i++) {
9                map.put(s.charAt(i), -1);
10           }
11
12           int allCount = 0;
13           int levelCount = 0;
14
15 2         for (int i = 0; i < s.length(); i++) {
16               char c = s.charAt(i);
17
18 1             if (i == 0) {
19                   allCount = 1;
20                   map.put(c, 1);
21                   levelCount = 1;
22                   continue;
23               }
24
25 1             levelCount = allCount + 1;
26
27 2             if (map.get(c) < 0) {
28 1                 allCount = allCount + levelCount;
29               } else {
30 2                 allCount = allCount + levelCount - map.get(c);
31               }
32               map.put(c, levelCount);
33           }
34
35 2         return allCount + 1;
36       }
37   }
```

Mutations

8	1. changed conditional boundary → KILLED 2. negated conditional → KILLED
15	1. negated conditional → KILLED 2. changed conditional boundary → KILLED
18	1. negated conditional → KILLED
25	1. Replaced integer addition with subtraction → KILLED
27	1. changed conditional boundary → SURVIVED 2. negated conditional → KILLED
28	1. Replaced integer addition with subtraction → KILLED
30	1. Replaced integer subtraction with addition → KILLED 2. Replaced integer addition with subtraction → KILLED
35	1. replaced int return with 0 for com/example/string/CountDistinctSubsequences::countSub → KILLED 2. Replaced integer addition with subtraction → 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

- com.example.string.CountDistinctSubsequencesTest.test(com.example.string.CountDistinctSubsequencesTest) (0 ms)

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