LongestNonRepSubstring.java

```
1    package String;
2    import java.util.HashMap;
3    public class LongestNonRepSubstring {
4        public static int lengthOfLongestSubstring(String s) {
5            int max = 0, start = 0, i = 0;
6            HashMap<Character, Integer> map = new HashMap<>();
7
8  2        while (i < s.length()) {
9                char temp = s.charAt(i);
10 1            if (!map.containsKey(temp)) map.put(temp, 0);
11 1            else if (s.charAt(start) == temp)
12 1                start++;
13 2            else if (s.charAt(i - 1) == temp) {
14 2                if (max < map.size()) max = map.size();
15                map = new HashMap<>();
16                start = i;
17 1                i--;
18            }
19            else {
20 2                if (max < map.size()) max = map.size();
21 1                while (s.charAt(start) != temp) {
22                    map.remove(s.charAt(start));
23 1                    start++;
24                }
25 1                start++;
26            }
27
28 1            i++;
29        }
30 2        if (max < map.size()) max = map.size();
31 1        return max;
32    }
33 }
```

Mutations

8	1. negated conditional → KILLED 2. changed conditional boundary → KILLED
10	1. negated conditional → KILLED
11	1. negated conditional → KILLED
12	1. Changed increment from 1 to -1 → SURVIVED
13	1. Replaced integer subtraction with addition → SURVIVED 2. negated conditional → KILLED
14	1. negated conditional → KILLED 2. changed conditional boundary → SURVIVED
17	1. Changed increment from -1 to 1 → SURVIVED
20	1. negated conditional → KILLED 2. changed conditional boundary → SURVIVED
21	1. negated conditional → KILLED
23	1. Changed increment from 1 to -1 → KILLED
25	1. Changed increment from 1 to -1 → SURVIVED
28	1. Changed increment from 1 to -1 → KILLED
30	1. negated conditional → KILLED 2. changed conditional boundary → SURVIVED

31	1. replaced int return with 0 for String/LongestNonRepSubstring::lengthOfLongestSubstring → 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

- String.LongestNonRepSubstringTest.palindrome(String.LongestNonRepSubstringTest) (0 ms)

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