LastPositionFinder.java

```
1
    package BinarySearch;
2
3
    public class LastPositionFinder {
4
         public int findLastPosition(int[] nums, int target) {
             int low = 0, high = nums.length - 1;
5
  1
             int lastPosition = -1;
6
7
             while (low <= high) {
8
  2
9
  3
                  int mid = low + (high - low) / 2;
10 1
                  if (nums[mid] == target) {
11
                      lastPosition = mid;
12 1
                      low = mid + 1;
13 2
                  } else if (nums[mid] < target) {</pre>
                      low = mid + 1;
14 1
15
                  } else {
16<sub>1</sub>
                      high = mid - 1;
17
                  }
18
19 1
             return lastPosition;
20
         }
21
    }
    Mutations
5

    Replaced integer subtraction with addition → KILLED

    changed conditional boundary → KILLED

8

 negated conditional → KILLED

    1. Replaced integer division with multiplication → KILLED

    Replaced integer addition with subtraction → KILLED
    Replaced integer subtraction with addition → KILLED

9
    1. negated conditional → KILLED
10
    1. Replaced integer addition with subtraction → TIMED_OUT
12

    changed conditional boundary → SURVIVED

13
    2. negated conditional → KILLED

    Replaced integer addition with subtraction → TIMED_OUT

14
    1. Replaced integer subtraction with addition → TIMED_OUT
16
    1. replaced int return with 0 for
19
    BinarySearch/LastPositionFinder::findLastPosition → 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

• BinarySearch.LastPositionFinderTest.testLastPosition(BinarySearch.LastPositionFinderTest) (0 ms)

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