BinarySearch.java

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

Mutations

6	1. Replaced integer subtraction with addition → KILLED
8	1. changed conditional boundary → KILLED 2. negated conditional → KILLED
9	1. Replaced integer division with multiplication → KILLED 2. Replaced integer addition with subtraction → KILLED 3. Replaced integer subtraction with addition → KILLED
10	1. negated conditional → KILLED
11	1. replaced int return with 0 for BinarySearch/BinarySearch::search → KILLED
12	1. changed conditional boundary → SURVIVED 2. negated conditional → KILLED
13	1. Replaced integer subtraction with addition → TIMED_OUT
15	1. Replaced integer addition with subtraction → TIMED_OUT
19	1. replaced int return with 0 for BinarySearch/BinarySearch::search → 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.BinarySearchTest.testSearch(BinarySearch.BinarySearchTest) (0 ms)

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