

Our Solution(s)

Run Code

Your Solutions

Run Code

Solution 1

Solution 2

```
1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
2
3 public class Program {
4     // O(log(n)) time | O(log(n)) space
5     public static int[] SearchForRange(int[] array, int target) {
6         int[] finalRange = {-1, -1};
7         alteredBinarySearch(array, target, 0, array.Length - 1, finalRange);
8         alteredBinarySearch(array, target, 0, array.Length - 1, finalRange);
9         return finalRange;
10    }
11
12    public static void alteredBinarySearch(int[] array, int target, int
13        int[] finalRange, bool goLeft) {
14        if (left > right) {
15            return;
16        }
17        int mid = (left + right) / 2;
18        if (array[mid] < target) {
19            alteredBinarySearch(array, target, mid + 1, right, finalRange, goLeft);
20        } else if (array[mid] > target) {
21            alteredBinarySearch(array, target, left, mid - 1, finalRange, goLeft);
22        } else {
23            if (goLeft) {
24                if (mid == 0 || array[mid - 1] != target) {
25                    finalRange[0] = mid;
26                } else {
27                    alteredBinarySearch(array, target, left, mid - 1, finalRange, goLeft);
28                }
29            } else {
30                if (mid == array.Length - 1 || array[mid + 1] != target) {
31                    finalRange[1] = mid;
32                } else {
33                    alteredBinarySearch(array, target, mid + 1, right, finalRange, goLeft);
34                }
35            }
36        }
37    }
38 }
```

Solution 1

Solution 2

Solution 3

```
1 public class Program {
2     public static int[] SearchForRange(int[] array, int target) {
3         // Write your code here.
4         return null;
5     }
6 }
7
```

Our Tests

Custom Output

Submit Code

```
1 public class Program {
2     // ...
3     public static int[] SearchForRange(int[] array, int target) {
4         // ...
5         int[] finalRange = {-1, -1};
6         alteredBinarySearch(array, target, 0, array.Length - 1, finalRange);
7         alteredBinarySearch(array, target, 0, array.Length - 1, finalRange);
8         return finalRange;
9     }
10 }
```

```
1
2
3
4
5
6
7
8
9
10
```

```
17 (Test):
18 [2025-10-10 14:44:44] TestPassed: 1
19 [2025-10-10 14:44:44] expected = 10, 50
20 [2025-10-10 14:44:44] output = Program SearcherOutput(10, 50, 10, 50, 10, 50)
21 [2025-10-10 14:44:44] [2025-10-10 14:44:44] [2025-10-10 14:44:44] [2025-10-10 14:44:44] [2025-10-10 14:44:44] [2025-10-10 14:44:44]
22 }
23
24 (Test):
25 [2025-10-10 14:44:44] TestPassed: 1
26 [2025-10-10 14:44:44] expected = 10, 50
27 [2025-10-10 14:44:44] output = Program SearcherOutput(10, 50, 10, 50, 10, 50)
28 [2025-10-10 14:44:44] [2025-10-10 14:44:44] [2025-10-10 14:44:44] [2025-10-10 14:44:44] [2025-10-10 14:44:44] [2025-10-10 14:44:44]
29 }
30
```

Run or submit code when you're ready.