AlgoExpert Quad Layout C# 12px Sublime Monokai 00:00:00

Prompt Scratchpad Our Solution(s) Video Explanation Run Code

Solution 1 Solution 2

```
1\, // Copyright @ 2020 AlgoExpert, LLC. All rights reserved.
 3 public class Program {
      // O(\log(n)) time | O(\log(n)) space
      public static int[] SearchForRange(int[] array, int target) {
        int[] finalRange = {-1, -1};
        \verb|alteredBinarySearch(array, target, 0, array.Length - 1, finalRange, true);|\\
        \verb| alteredBinarySearch(array, target, 0, array.Length - 1, finalRange, false); \\
        return finalRange;
9
10
11
      public static void alteredBinarySearch(int[] array, int target, int left, int right,
12
        int[] finalRange, bool goLeft) {
13
        if (left > right) {
14
15
          return;
16
17
        int mid = (left + right) / 2;
18
        if (array[mid] < target) {</pre>
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
23
          if (goLeft) {
            if (mid == 0 || array[mid - 1] != target) {
24
25
              finalRange[0] = mid;
26
            } else {
27
              {\tt alteredBinarySearch(array,\ target,\ left,\ mid\ -\ 1,}\\
28
                finalRange, goLeft);
29
30
          } else {
31
            if (mid == array.Length - 1 || array[mid + 1] != target) {
32
              finalRange[1] = mid;
33
            } else {
34
              alteredBinarySearch(array, target, mid + 1, right,
35
                finalRange, goLeft);
36
37
38
39
40 }
41
```