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(1) space
      public static int[] SearchForRange(int[] array, int target) {
        int[] finalRange = {-1, -1};
        \verb|alteredBinarySearch(array, target, 0, array.Length - 1, finalRange, true);|\\
 8
        \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
14
        \begin{tabular}{ll} \textbf{while} & (\texttt{left} <= \texttt{right}) & (\end{tabular}
15
          int mid = (left + right) / 2;
          if (array[mid] < target) {</pre>
16
17
            left = mid + 1;
18
          } else if (array[mid] > target) {
            right = mid - 1;
19
20
          } else {
21
            if (goLeft) {
              if (mid == 0 || array[mid - 1] != target) {
22
23
                finalRange[0] = mid;
                return;
24
25
               } else {
26
                right = mid - 1;
27
28
              if (mid == array.Length - 1 || array[mid + 1] != target) {
29
30
                finalRange[1] = mid;
31
               } else {
32
33
                left = mid + 1;
34
35
36
37
38
39 }
```