AlgoExpert Quad Layout Java 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 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); \\
 9
        return finalRange;
10
11
12
      public static void alteredBinarySearch(
13
          int[] array, int target, int left, int right, int[] finalRange, boolean goLeft) {
14
        if (left > right) {
15
16
17
        int mid = (left + right) / 2;
        if (array[mid] < target) {</pre>
18
          alteredBinarySearch(array, target, mid + 1, right, finalRange, goLeft);
19
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
               alteredBinarySearch(array, target, left, mid - 1, finalRange, goLeft);
28
29
           } else {
30
             \textbf{if} \ (\texttt{mid} == \texttt{array.length} \ - \ \textbf{1} \ || \ \texttt{array}[\texttt{mid} \ + \ \textbf{1}] \ != \ \texttt{target}) \ \{ \\
               finalRange[1] = mid;
31
32
               alteredBinarySearch(array, target, mid + 1, right, finalRange, goLeft);
33
34
35
36
37
38 }
```