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(1) 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); \\
 8
       return finalRange;
9
10
11
12
      public static void alteredBinarySearch(
13
         int[] array, int target, int left, int right, int[] finalRange, boolean goLeft) {
        while (left <= right) {</pre>
14
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
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
            } else {
              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 }
```