AlgoExpert Quad Layout Swift 12px Sublime Monokai 00:00:00

Run Code

```
{\tt 1} {\tt //} Copyright @ 2020 AlgoExpert, LLC. All rights reserved.
 3 class Program {
        // O(\log(n)) time | O(\log(n)) space
        func searchForRange(_ array: [Int], _ target: Int) -> [Int] {
            var finalRange = [-1, -1]
            {\tt alteredBinarySearch(array,\ target,\ 0,\ array.count\ -\ 1,\ \&finalRange,\ true)}
9
            {\tt alteredBinarySearch(array,\ target,\ 0,\ array.count\ -\ 1,\ \&finalRange,\ false)}
10
            return finalRange
11
12
13
        func alteredBinarySearch(_ array: [Int], _ target: Int, _ leftPointer: Int, _ rightPointer: Int, _ finalRange: inout [Int], _ goLeft: Bool) {
14
            if leftPointer > rightPointer {
15
               return
16
17
            let middle = (leftPointer + rightPointer) / 2
18
19
20
            if array[middle] > target {
21
               alteredBinarySearch(array, target, leftPointer, middle - 1, &finalRange, goLeft)
            } else if array[middle] < target {</pre>
22
23
                {\tt alteredBinarySearch(array,\ target,\ middle\ +\ 1,\ rightPointer,\ \&finalRange,\ goLeft)}
24
            } else {
25
                if goLeft {
26
                    if middle == 0 || array[middle] != array[middle - 1] {
27
                        finalRange[0] = middle
28
                    } else {
                        alteredBinarySearch(array, target, leftPointer, middle - 1, &finalRange, goLeft)
29
30
31
                } else {
32
                    if middle == array.count - 1 || array[middle] != array[middle + 1] {
                        finalRange[1] = middle
33
35
                        alteredBinarySearch(array, target, middle + 1, rightPointer, &finalRange, goLeft)
36
```

Prompt

Scratchpad

Solution 1 Solution 2

Our Solution(s) Video Explanation