

PromptScratchpadOur Solution(s)Video Explanation

Run Code

Solution 1Solution 2

```
1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
2
3 package main
4
5 // O(log(n)) time | O(log(n)) space
6 func SearchForRange(array []int, target int) []int {
7     finalRange := []int{-1, -1}
8     alteredBinarySearch(array, target, 0, len(array)-1, finalRange, true)
9     alteredBinarySearch(array, target, 0, len(array)-1, finalRange, false)
10    return finalRange
11 }
12
13 func alteredBinarySearch(array []int, target, left, right int, finalRange []int, goLeft bool) {
14     if left > right {
15         return
16     }
17     mid := (left + right) / 2
18     if array[mid] < target {
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     } else {
23         if goLeft {
24             if mid == 0 || array[mid-1] != target {
25                 finalRange[0] = mid
26             } else {
27                 alteredBinarySearch(array, target, left, mid-1, finalRange, goLeft)
28             }
29         } else {
30             if mid == len(array)-1 || array[mid+1] != target {
31                 finalRange[1] = mid
32             } else {
33                 alteredBinarySearch(array, target, mid+1, right, finalRange, goLeft)
34             }
35         }
36     }
37 }
38
```