

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(1) 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     for left <= right {
15         mid := (left + right) / 2
16         if array[mid] < target {
17             left = mid + 1
18         } else if array[mid] > target {
19             right = mid - 1
20         } else {
21             if goLeft {
22                 if mid == 0 || array[mid-1] != target {
23                     finalRange[0] = mid
24                     return
25                 } else {
26                     right = mid - 1
27                 }
28             } else {
29                 if mid == len(array)-1 || array[mid+1] != target {
30                     finalRange[1] = mid
31                     return
32                 } else {
33                     left = mid + 1
34                 }
35             }
36         }
37     }
38 }
39
```