

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 ShiftedBinarySearch(array []int, target int) int {
7     return helper(array, target, 0, len(array)-1)
8 }
9
10 func helper(array []int, target int, left int, right int) int {
11     for left <= right {
12         middle := (left + right) / 2
13         potentialMatch := array[middle]
14         leftnum, rightnum := array[left], array[right]
15         if target == potentialMatch {
16             return middle
17         } else if leftnum <= potentialMatch {
18             if target < potentialMatch && target >= leftnum {
19                 right = middle - 1
20             } else {
21                 left = middle + 1
22             }
23         } else {
24             if target > potentialMatch && target <= rightnum {
25                 left = middle + 1
26             } else {
27                 right = middle - 1
28             }
29         }
30     }
31     return -1
32 }
33
```