AlgoExpert Quad Layout Python 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 # O(log(n)) time | O(1) space
 4 def shiftedBinarySearch(array, target):
       return shiftedBinarySearchHelper(array, target, 0, len(array) - 1)
8 def shiftedBinarySearchHelper(array, target, left, right):
       while left <= right:</pre>
9
10
           middle = (left + right) // 2
           potentialMatch = array[middle]
11
           leftNum = array[left]
12
13
           rightNum = array[right]
           if target == potentialMatch:
14
15
16
           elif leftNum <= potentialMatch:</pre>
17
               if target < potentialMatch and target >= leftNum:
                  right = middle - 1
18
19
               else:
20
                  left = middle + 1
21
           else:
22
               if target > potentialMatch and target <= rightNum:</pre>
23
                  left = middle + 1
24
               else:
25
                   right = middle - 1
26
       return -1
```