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

Prompt Scratchpad Our Solution(s) Video Explanation Run Code

Solution 1 Solution 2

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```
1 \, # Copyright @ 2020 AlgoExpert, LLC. All rights reserved.
 3 # O(\log(n)) time | O(\log(n)) space
 4 def shiftedBinarySearch(array, target):
       return shiftedBinarySearchHelper(array, target, 0, len(array) - 1)
 8 def shiftedBinarySearchHelper(array, target, left, right):
       if left > right:
9
10
         return -1
        \mbox{middle = (left + right) // 2}
11
        potentialMatch = array[middle]
12
13
        leftNum = array[left]
        rightNum = array[right]
14
        if target == potentialMatch:
15
16
           return middle
17
        elif leftNum <= potentialMatch:</pre>
18
           if target < potentialMatch and target >= leftNum:
19
              return shiftedBinarySearchHelper(array, target, left, middle - 1)
20
21
               return shiftedBinarySearchHelper(array, target, middle + 1, right)
22
23
            if target > potentialMatch and target <= rightNum:</pre>
24
              return shiftedBinarySearchHelper(array, target, middle + 1, right)
25
            else:
26
               return shiftedBinarySearchHelper(array, target, left, middle - 1)
```