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

Prompt Scratchpad Our Solution(s) Video Explanation Run Code

Solution 1 Solution 2

32 33 }

```
1\, // Copyright @ 2020 AlgoExpert, LLC. All rights reserved.
 3 class Program {
     // O(log(n)) time | O(log(n)) space
     public static int shiftedBinarySearch(int[] array, int target) {
       return shiftedBinarySearch(array, target, 0, array.length - 1);
 8
      public static int shiftedBinarySearch(int[] array, int target, int left, int right) {
9
10
       if (left > right) {
         return -1;
11
12
        int middle = (left + right) / 2;
13
14
        int potentialMatch = array[middle];
15
        int leftNum = array[left];
16
        int rightNum = array[right];
        if (target == potentialMatch) {
17
         return middle;
18
        } else if (leftNum <= potentialMatch) {</pre>
19
20
         if (target < potentialMatch && target >= leftNum) {
21
           return shiftedBinarySearch(array, target, left, middle - 1);
22
          } else {
23
           return shiftedBinarySearch(array, target, middle + 1, right);
24
25
        } else {
26
          if (target > potentialMatch && target <= rightNum) {</pre>
27
           return shiftedBinarySearch(array, target, middle + 1, right);
28
29
           return shiftedBinarySearch(array, target, left, middle - 1);
30
31
```