Our Solution(s)   Run Code

Solution 1   Solution 2

```javascript
1  // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
2
3  // O(log(n)) time | O(1) space
4  function shiftedBinarySearch(array, target) {
5    return shiftedBinarySearchHelper(array, target, 0, array.length - 1
6  }
7
8  function shiftedBinarySearchHelper(array, target, left, right) {
9    while (left <= right) {
10     const middle = Math.floor((left + right) / 2);
11     const potentialMatch = array[middle];
12     const leftNum = array[left];
13     const rightNum = array[right];
14     if (target === potentialMatch) {
15       return middle;
16     } else if (leftNum <= potentialMatch) {
17       if (target < potentialMatch && target >= leftNum) {
18         right = middle - 1;
19       } else {
20         left = middle + 1;
21       }
22     } else {
23       if (target > potentialMatch && target <= rightNum) {
24         left = middle + 1;
25       } else {
26         right = middle - 1;
27       }
28     }
29   }
30   return -1;
31 }
32
33 exports.shiftedBinarySearch = shiftedBinarySearch;
```

Your Solutions   Run Code

Solution 1   Solution 2   Solution 3

```javascript
1  function shiftedBinarySearch(array, target) {
2    // Write your code here.
3  }
4
5  // Do not edit the line below.
6  exports.shiftedBinarySearch = shiftedBinarySearch;
7
```

Our Tests

Custom Output   Submit Code

```
8    it('Test Case 00', function () {
9        chai.expect(program.shiftedBinarySearch([10, 1, 5, 20], 5)).to.equ
10   });

12   it('Test Case 01', function () {
13       chai.expect(program.shiftedBinarySearch([5, 10, 1, 5], 30)).to.equ
14   });

16   it('Test Case 02', function () {
17       chai.expect(program.shiftedBinarySearch([45, 61, 71, 72, 0, 1, 2
18   });

20   it('Test Case 03', function () {
21       chai.expect(program.shiftedBinarySearch([45, 71, 72, 73, 0, 1, 45, 1
22   });
```

Run or submit code when you're ready.