

Our Solution(s)

Run Code

Solution 1Solution 2

```
1 # Copyright © 2020 AlgoExpert, LLC. All rights reserved.
2
3 # O(log(n)) time | O(1) space
4 def binarySearch(array, target):
5     return binarySearchHelper(array, target, 0, len(array) - 1)
6
7
8 def binarySearchHelper(array, target, left, right):
9     while left <= right:
10         middle = (left + right) // 2
11         potentialMatch = array[middle]
12         if target == potentialMatch:
13             return middle
14         elif target < potentialMatch:
15             right = middle - 1
16         else:
17             left = middle + 1
18     return -1
19
```

Our Tests

```
1 # Test 1
2 # Input: array = [1, 2, 3, 4, 5], target = 3
3 # Output: 2
4
5 # Test 2
6 # Input: array = [1, 2, 3, 4, 5], target = 6
7 # Output: -1
8
9 # Test 3
10 # Input: array = [1, 2, 3, 4, 5], target = 0
11 # Output: -1
12
13 # Test 4
14 # Input: array = [1, 2, 3, 4, 5], target = 1
15 # Output: 0
16
17 # Test 5
18 # Input: array = [1, 2, 3, 4, 5], target = 5
19 # Output: 4
```

Your Solutions

Run Code

Solution 1Solution 2Solution 3

```
1 def binarySearch(array, target):
2     # Write your code here.
3     pass
4
```

Custom Output

Raw Output

Submit Code

Run or submit code when you're ready.