35. Search Insert Position

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Notes

Given a sorted array and a target value, return the index if the target is found. If not, return the index where it would be if it were inserted in order.

You may assume no duplicates in the array.

Example 1:

```
Input: [1,3,5,6], 5
Output: 2
```

Example 2:

```
Input: [1,3,5,6], 2
Output: 1
```

Example 3:

```
Input: [1,3,5,6], 7
Output: 4
```

Example 4:

```
Input: [1,3,5,6], 0
Output: 0
```

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```python
class Solution(object):
    def searchInsert(self, nums, target):
        if target < nums[0]:
            print ("smaller than the first element, not inside the array")
            # enlarge the array should return the first element index of the new array
            return nums.index(nums[0])
        if target > nums[len(nums) - 1]:
            print ("larger than the last element, not inside the array")
            # enlarge the array should return the last element index of the new array
            # get the last element index of the old array and plus 1 for the last element of the new array
            return (nums.index(nums[len(nums) - 1])) + 1

        for i in range(len(nums)):
            if target not in nums:
                print ("Middle, not inside the array")
                if (target > nums[i-1] and target < nums[i]):
                    return nums.index(nums[i])
            if nums[i] == target:
                print("inside the array")
                return nums.index(target)

```

Notes

Custom Testcase (Contribute !) Run Code Submit Solution

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