35. Search Insert Position

Easy 8546 435 Add to List Share

Given a sorted array of distinct integers 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 must write an algorithm with `O(log n)` runtime complexity.

Example 1:

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

Example 2:

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

Example 3:

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

Constraints:

- `1 <= nums.length <= 10^4`
- `-10^4 <= nums[i] <= 10^4`
- `nums` contains **distinct** values sorted in **ascending** order.
- `-10^4 <= target <= 10^4`

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Seen this question in a real interview before? Yes No

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```
1  class Solut
2  public:
3      int
   searchInser
   int target)
4          int
   1;
5          int
6          whi
7
   end)/2;
8
9
   target){
10
11
12
   target){
13
   1;
14
15
16
17
18
19         }
20         ret
21     }
22 };
```

Testcase Run Code Re

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Your input [1, 5

Output 2

Expected 2