

Description

Solution

Discuss (999+)

Submissions

35. Search Insert Position

Easy

7290

394

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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:

- $1 \leq \text{nums.length} \leq 10^4$
- $-10^4 \leq \text{nums}[i] \leq 10^4$
- nums contains **distinct** values sorted in **ascending** order.
- $-10^4 \leq \text{target} \leq 10^4$

Accepted 1,347,582

Submissions 3,182,322

Seen this question in a real interview before?

Yes

No

Companies

Java

Autocomplete

```
1 class Solution {
2     public int searchInsert(int[] nums, int target) {
3
4         int start = 0;
5         int end = nums.length - 1;
6
7         while(start <= end){
8
9             int mid = start + (end - start) / 2;
10
11             if(nums[mid] == target)
12                 return mid;
13             else if(nums[mid] < target)
14                 start = mid + 1;
15             else
16                 end = mid - 1;
17         }
18
19         return start;
20     }
21 }
```

Testcase

Run Code Result

Debuqger

AcceptedRuntime: 0 ms

Your input

[1,3,5,6]
5
-

Output

2
1

Diff

Expected

2
1