35. Search Insert Position

Easy 4795 320 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
```

Example 4:

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

Example 5:

```
Input: nums = [1], target = 0
Output: 0
```

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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```java
class Solution {
    public int searchInsert(int[] nums, int target) {

    }
}
```