

```

class Solution {
    public int searchInsert(int[] nums, int target) {
        if (nums.length == 0 || nums[0] >= target)
            return 0;
        if (target > nums[nums.length-1])
            return nums.length;
        int l = 0, r = nums.length - 1;
        while (l + 1 < r) {
            int mid = (r - l) / 2 + l;
            if (nums[mid] == target) {
                return mid;
            } else if (nums[mid] > target) {
                r = mid;
            } else {
                l = mid;
            }
        }
        if (nums[l] == target)
            return l;
        return r;
    }
}

```