

Input: nums = [3,3,3,3,3]
Output: 3

**Example 3:** 

Example 1:

Output: 2

Output: 3

**Example 2:** 

Input: nums = [1,3,4,2,2]

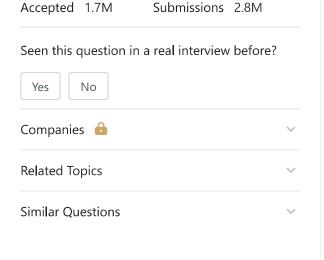
**Input:** nums = [3,1,3,4,2]

## **Constraints:**

- 1 <= n <= 10<sup>5</sup>
- nums.length == n + 1
- 1 <= nums[i] <= n
- All the integers in nums appear only
   once except for precisely one integer
   which appears two or more times.

## Follow up:

- How can we prove that at least one duplicate number must exist in nums?
- Can you solve the problem in linear runtime complexity?



NEW

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