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287. Find the Duplicate Number

Medium

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1480

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Given an array of integers `nums` containing `n + 1` integers where each integer is in the range `[1, n]` inclusive.

There is only **one repeated number** in `nums`, return *this repeated number*.

You must solve the problem **without** modifying the array `nums` and uses only constant extra space.

Example 1:

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

Output: `2`

Example 2:

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

Output: `3`

Constraints:

•

`1 <= n <= 105`

•

`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?

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class Solution {

public int findDuplicate(int[] nums) {

}

}

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Console

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https://leetcode.com/problems/find-the-duplicate-number/

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