268. Missing Number

Easy 6912 2947 Add to List Share

Given an array `nums` containing `n` distinct numbers in the range `[0, n]`, return *the only number in the range that is missing from the array.*

Example 1:

```
Input: nums = [3,0,1]
Output: 2
Explanation: n = 3 since there are 3 numbers, so all numbers are in the range [0,3]. 2 is the missing number in the range since it does not appear in nums.
```

Example 2:

```
Input: nums = [0,1]
Output: 2
Explanation: n = 2 since there are 2 numbers, so all numbers are in the range [0,2]. 2 is the missing number in the range since it does not appear in nums.
```

Example 3:

```
Input: nums = [9,6,4,2,3,5,7,0,1]
Output: 8
Explanation: n = 9 since there are 9 numbers, so all numbers are in the range [0,9]. 8 is the missing number in the range since it does not appear in nums.
```

Java Autocomplete

```java
class Solution {
    public int missingNumber(int[] nums) {

        int n=nums.length;

        int tot=(n*(n+1))/2;

        int sum=0;

        for(int i=0;i<n;i++)
            sum+=nums[i];

        return tot-sum;

    }
}
```

Testcase Run Code Result Debugger

Accepted Runtime: 0 ms

Your input
[3,0,1]
[0,1]

Output
2
2

Diff

Expected
2
2