268. Missing Number

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Total Accepted: **88474** Total Submissions: **202521** Difficulty: **Easy** Contributors: **Admin**

Given an array containing *n* distinct numbers taken from `0, 1, 2, ..., n`, find the one that is missing from the array.

For example,

Given *nums* = `[0, 1, 3]` return `2`.

Note:

Your algorithm should run in linear runtime complexity. Could you implement it using only constant extra space complexity?

Credits:

Special thanks to @jianchao.li.fighter (https://leetcode.com/discuss/user/jianchao.li.fighter) for adding this problem and creating all test cases.

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Python

```
class Solution(object):
    def missingNumber(self, nums):
        """
        :type nums: List[int]
        :rtype: int
        """
        n=len(nums)
        return (n*(n+1)/2)-sum(nums)


```

Notes

Custom Testcase

Contribute Testcase

Run Code | Submit Solution

Run Code Status: Finished

Run Code Result:

Your input

```
[0]
```

Your answer

```
1
```

Expected answer

1

Show Diff

Runtime: 35 ms

Note: is Run Code inconsistent with Submit Solution? If you are using global variables or C/C++, check this (/faq/#different-output) out.

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Notes