











5846. Find the Middle Index in Array

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Given a O-indexed integer array nums, find the leftmost middleIndex (i.e., the smallest amongst all the possible ones).

A middleIndex is an index where nums[0] + nums[1] + ... + nums[middleIndex-1] == nums[middleIndex+1] + nums[middleIndex+2] + ... + nums[nums.length-1].

If middleIndex == 0, the left side sum is considered to be 0. Similarly, if middleIndex == nums.length - 1, the right side sum is considered to be 0.

Return the **leftmost** middleIndex that satisfies the condition, or -1 if there is no such index.

User Accepted:	4251
User Tried:	4597
Total Accepted:	4334
Total Submissions:	6626
Difficulty:	Easy

Example 1:

Input: nums = [2,3,-1,8,4]Output: 3 **Explanation:** The sum of the numbers before index 3 is: 2 + 3 + -1 = 4The sum of the numbers after index 3 is: 4 = 4

Example 2:

Input: nums = $[1,-1,\underline{4}]$ Output: 2 **Explanation:** The sum of the numbers before index 2 is: 1 + -1 = 0The sum of the numbers after index 2 is: 0

Example 3:

Input: nums = [2,5]Output: -1 **Explanation:** There is no valid middleIndex.

Example 4:

Input: nums = $[\underline{1}]$ Output: 0 **Explantion:** The sum of the numbers before index 0 is: 0 The sum of the numbers after index 0 is: 0

Constraints:

JavaScript

- 1 <= nums.length <= 100
- -1000 <= nums[i] <= 1000

1 const sm = (a) \Rightarrow a.reduce(((x, y) \Rightarrow x + y), 0);

```
2
    const findMiddleIndex = (a) => {
 3 ▼
        for (let i = 0; i < a.length; i++) {
 4 •
 5
            let left = a.slice(0, i);
 6
            let right = a.slice(i + 1);
 7
            let ls = sm(left), rs = sm(right)
 8
            // pr(left, right);
 9
            if (ls == rs) return i;
10
11
        return -1;
12
    };
```

☐ Custom Testcase

Use Example Testcases

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