

LeetCode

Explore

Problems

Interview

Contest

Discuss

Store

LeetCode is hiring! Apply NOW.

🔔

🔥 3

👤

Description

Solution

Discuss (234)

Submissions

i

Java

Autocomplete

i

{ }

↺

⚙

🔄

2270. Number of Ways to Split Array

Medium

👍 120

💬 9

🤍 Add to List

🔖 Share

You are given a **0-indexed** integer array `nums` of length `n`.

`nums` contains a **valid split** at index `i` if the following are true:

- The sum of the first `i + 1` elements is **greater than or equal to** the sum of the last `n - i - 1` elements.
- There is **at least one** element to the right of `i`. That is, `0 <= i < n - 1`.

Return the number of **valid splits** in `nums`.

Example 1:

Input: `nums = [10,4,-8,7]`
Output: 2
Explanation:
There are three ways of splitting `nums` into two non-empty parts:

- Split `nums` at index 0. Then, the first part is `[10]`, and its sum is 10. The second part is `[4,-8,7]`, and its sum is 3. Since `10 >= 3`, `i = 0` is a valid split.
- Split `nums` at index 1. Then, the first part is `[10,4]`, and its sum is 14. The second part is `[-8,7]`, and its sum is -1. Since `14 >= -1`, `i = 1` is a valid split.
- Split `nums` at index 2. Then, the first part is `[10,4,-8]`, and its sum is 6. The second part is `[7]`, and its sum is 7. Since `6 < 7`, `i = 2` is not a valid split.

Thus, the number of valid splits in `nums` is 2.

Example 2:

Input: `nums = [2,3,1,0]`
Output: 2
Explanation:
There are two valid splits in `nums`:

- Split `nums` at index 1. Then, the first part is `[2,3]`, and its sum is 5. The second part is `[1,0]`, and its sum is 1. Since `5 >= 1`, `i = 1` is a valid split.
- Split `nums` at index 2. Then, the first part is `[2,3,1]`, and its sum is 6. The second part is `[0]`, and its sum is 0. Since `6 >= 0`, `i = 2` is a valid split.

Constraints:

- `2 <= nums.length <= 105`
- `-105 <= nums[i] <= 105`

Accepted 12,779

Submissions 30,390

Seen this question in a real interview before?

Yes

No

Companies

🔖 i

⌵

Related Topics

⌵

Similar Questions

⌵

Show Hint 1

⌵

Show Hint 2

⌵

1

class Solution {

2

public int waysToSplitArray(int[] nums) {

3

4

}

5

}

⌵ Problems

⌵ Pick One

< Prev

2270/2281

Next >

Console

Contribute i

▶ Run Code

⌵

Submit

1/1