548. Split Array with Equal Sum Premium

Hard Topics Companies

Given an integer array `nums` of length `n`, return `true` if there is a triplet `(i, j, k)` which satisfies the following conditions:

- `0 < i, i + 1 < j, j + 1 < k < n - 1`
- The sum of subarrays `(0, i - 1)`, `(i + 1, j - 1)`, `(j + 1, k - 1)` and `(k + 1, n - 1)` is equal.

A subarray `(l, r)` represents a slice of the original array starting from the element indexed `l` to the element indexed `r`.

Example 1:

```
Input: nums = [1,2,1,2,1,2,1]
Output: true
Explanation:
i = 1, j = 3, k = 5.
sum(0, i - 1) = sum(0, 0) = 1
sum(i + 1, j - 1) = sum(2, 2) = 1
sum(j + 1, k - 1) = sum(4, 4) = 1
sum(k + 1, n - 1) = sum(6, 6) = 1
```

Example 2:

```
Input: nums = [1,2,1,2,1,2,1,2]
Output: false
```

Constraints:

- `n == nums.length`
- `1 <= n <= 2000`
- `-10^6 <= nums[i] <= 10^6`

Seen this question in a real interview before? 1/5

Yes No

Accepted 24.2K | Submissions 48.3K | Acceptance Rate 50.1%

Topics

Array Hash Table Prefix Sum

Companies

0 - 6 months

Alibaba 2

Similar Questions

Fair Distribution of Cookies	Medium
Number of Ways to Split a String	Medium

Discussion (0)