5503. Sum of All Odd Length Subarrays

My Submissions (/contest/biweekly-contest-35/problems/sum-of-all-odd-length-subarrays/submissions/)

Back to Contest (/contest/biweekly-contest-35/)

Given an array of positive integers arr, calculate the sum of all possible odd-length subarrays.

A subarray is a contiguous subsequence of the array.

Return the sum of all odd-length subarrays of arr.

User Accepted: 281 User Tried: 326 Total Accepted: 281 Total Submissions: 333 Difficulty: Easy

Example 1:

```
Input: arr = [1,4,2,5,3]
Output: 58
Explanation: The odd-length subarrays of arr and their s
[1] = 1
[4] = 4
[2] = 2
[5] = 5
[3] = 3
[1,4,2] = 7
[4,2,5] = 11
[2,5,3] = 10
[1,4,2,5,3] = 15
If we add all these together we get 1 + 4 + 2 + 5 + 3 +
```

Example 2:

Input: arr = [1,2]

Output: 3

Explanation: There are only 2 subarrays of odd length, [1] and [2]. Their sum is 3.

Example 3:

Input: arr = [10,11,12]
Output: 66

Constraints:

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

JavaScript







```
1 • /**
 2
     * @param {number[]} arr
 3
     * @return {number}
 4
 5 v const sumOddLengthSubarrays = (arr) => {
 6
        let n = arr.length;
 7
        let res = 0;
 8 ▼
        for (let i = 0; i < n; i++) {
 9
             let tmp = 0;
             for (let j = i; j < n; j+=2) {
10 ▼
                 let sub = arr.slice(i, j + 1);
11
12
                 tmp+=sum(sub);
13
14
             res+= tmp;
15
        }
16
        return res;
17
    };
18
19 \checkmark const sum = (arr) => {
20
        return arr.reduce((acc, cur) => acc + cur);
21
    };
```

☐ Custom Testcase

Use Example Testcases

Run



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