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1588. Sum of All Odd Length Subarrays

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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` .

Example 1:

Input: `arr = [1,4,2,5,3]`

Output: 58

Explanation: The odd-length subarrays of `arr` and their sums are:

[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 + 7 + 11 + 10 + 15 = 58`

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`

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class Solution {

2

public int sumOddLengthSubarrays(int[] arr) {

3

4

}

5

}

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