

5457. Number of Sub-arrays With Odd Sum

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Given an array of integers `arr` . Return *the number of sub-arrays* with **odd** sum.

As the answer may grow large, the answer **must be** computed modulo $10^9 + 7$.

Example 1:

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

Output: 4

Explanation: All sub-arrays are `[[1],[1,3],[1,3,5],[3],[3,5],[5]]`
All sub-arrays sum are `[1,4,9,3,8,5]`.
Odd sums are `[1,9,3,5]` so the answer is 4.

User Accepted: 0

User Tried: 0

Total Accepted: 0

Total Submissions: 0

Difficulty: Medium

Example 2:

Input: `arr = [2,4,6]`

Output: 0

Explanation: All sub-arrays are `[[2],[2,4],[2,4,6],[4],[4,6],[6]]`
All sub-arrays sum are `[2,6,12,4,10,6]`.
All sub-arrays have even sum and the answer is 0.

Example 3:

Input: `arr = [1,2,3,4,5,6,7]`

Output: 16

Example 4:

Input: `arr = [100,100,99,99]`

Output: 4

Example 5:

Input: `arr = [7]`

Output: 1

Constraints:

- $1 \leq \text{arr.length} \leq 10^5$
- $1 \leq \text{arr}[i] \leq 100$

Java ▼



```
1 class Solution {  
2     public int numOfSubarrays(int[] arr) {  
3  
4     }  
5 }
```

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Use Example Testcases

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