

# Problem 985: Sum of Even Numbers After Queries

## Problem Information

**Difficulty:** Medium

**Acceptance Rate:** 68.69%

**Paid Only:** No

**Tags:** Array, Simulation

## Problem Description

You are given an integer array `nums` and an array `queries` where `queries[i] = [vali, indexi]`.

For each query `i`, first, apply `nums[indexi] = nums[indexi] + vali`, then print the sum of the even values of `nums`.

Return `an integer array answer` where `answer[i]` is the answer to the `i`th query.

**Example 1:**

**Input:** `nums = [1,2,3,4]`, `queries = [[1,0],[-3,1],[-4,0],[2,3]]` **Output:** `[8,6,2,4]`

**Explanation:** At the beginning, the array is `[1,2,3,4]`. After adding 1 to `nums[0]`, the array is `[2,2,3,4]`, and the sum of even values is `2 + 2 + 4 = 8`. After adding -3 to `nums[1]`, the array is `[2,-1,3,4]`, and the sum of even values is `2 + 4 = 6`. After adding -4 to `nums[0]`, the array is `[-2,-1,3,4]`, and the sum of even values is `-2 + 4 = 2`. After adding 2 to `nums[3]`, the array is `[-2,-1,3,6]`, and the sum of even values is `-2 + 6 = 4`.

**Example 2:**

**Input:** `nums = [1]`, `queries = [[4,0]]` **Output:** `[0]`

**Constraints:**

`1 <= nums.length <= 104`  
`-104 <= nums[i] <= 104`  
`1 <= queries.length <= 104`  
`-104 <= vali <= 104`  
`0 <= indexi < nums.length`

## Code Snippets

### C++:

```
class Solution {
public:
    vector<int> sumEvenAfterQueries(vector<int>& nums, vector<vector<int>>& queries) {

    }
};
```

### Java:

```
class Solution {
    public int[] sumEvenAfterQueries(int[] nums, int[][] queries) {

    }
}
```

### Python3:

```
class Solution:
    def sumEvenAfterQueries(self, nums: List[int], queries: List[List[int]]) -> List[int]:
```