

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_ `ith` _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]:
```