5475. Count Good Triplets

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Given an array of integers `arr`, and three integers `a`, `b` and `c`. You need to find the number of good triplets.

A triplet `(arr[i], arr[j], arr[k])` is **good** if the following conditions are true:

- `0 <= i < j < k < arr.length`
- `|arr[i] - arr[j]| <= a`
- `|arr[j] - arr[k]| <= b`
- `|arr[i] - arr[k]| <= c`

Where `|x|` denotes the absolute value of `x`.

Return *the number of good triplets*.

User Accepted:	0
User Tried:	0
Total Accepted:	0
Total Submissions:	0
Difficulty:	Easy

Example 1:

```
Input: arr = [3,0,1,1,9,7], a = 7, b = 2, c = 3
Output: 4
Explanation: There are 4 good triplets: [(3,0,1), (3,0,1), (3,1,1), (0,1,1)].
```

Example 2:

```
Input: arr = [1,1,2,2,3], a = 0, b = 0, c = 1
Output: 0
Explanation: No triplet satisfies all conditions.
```

Constraints:

- `3 <= arr.length <= 100`
- `0 <= arr[i] <= 1000`
- `0 <= a, b, c <= 1000`

JavaScript

```
/**
 * @param {number[]} arr
 * @param {number} a
 * @param {number} b
```

```
 * @param {number} c
 * @return {number}
 */
const countGoodTriplets = (arr, a, b, c) => {
    let cnt = 0
    for (let i = 0; i < arr.length; i++) {
        for (let j = i + 1; j < arr.length; j++) {
            let x = Math.abs(arr[i] - arr[j]);
            for (let k = j + 1; k < arr.length; k++) {
                let y = Math.abs(arr[j] - arr[k]);
                let z = Math.abs(arr[i] - arr[k]);
                if (x <= a && y <= b && z <= c) cnt++;
            }
        }
    }
    return cnt;
};
```

☐ **Custom Testcase** Use Example Testcases

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Submission Result: Accepted (/submissions/detail/374707812/)

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