

2964. Number of Divisible Triplet Sums

Description

Given a 0-indexed integer array `nums` and an integer `d`, return *the number of triplets* `(i, j, k)` *such that* `i < j < k` *and* `(nums[i] + nums[j] + nums[k]) % d == 0`.

Example 1:

Input: `nums = [3,3,4,7,8], d = 5`

Output: 3

Explanation: The triplets which are divisible by 5 are: (0, 1, 2), (0, 2, 4), (1, 2, 4).

It can be shown that no other triplet is divisible by 5. Hence, the answer is 3.

Example 2:

Input: `nums = [3,3,3,3], d = 3`

Output: 4

Explanation: Any triplet chosen here has a sum of 9, which is divisible by 3. Hence, the answer is the total number of triplets which is 4.

Example 3:

Input: `nums = [3,3,3,3], d = 6`

Output: 0

Explanation: Any triplet chosen here has a sum of 9, which is not divisible by 6. Hence, the answer is 0.

Constraints:

- `1 <= nums.length <= 1000`
- `1 <= nums[i] <= 109`
- `1 <= d <= 109`

