3780. Maximum Sum of Three Numbers Divisible by Three

Solved

Medium Topics Hint

You are given an integer array `nums`.

Your task is to choose **exactly three** integers from `nums` such that their sum is divisible by three.

Return the **maximum** possible sum of such a triplet. If no such triplet exists, return 0.

Example 1:

> **Input:** nums = [4,2,3,1]
>
> **Output:** 9
>
> **Explanation:**
>
> The valid triplets whose sum is divisible by 3 are:
>
> - `(4, 2, 3)` with a sum of `4 + 2 + 3 = 9`.
> - `(2, 3, 1)` with a sum of `2 + 3 + 1 = 6`.
>
> Thus, the answer is 9.

Example 2:

> **Input:** nums = [2,1,5]
>
> **Output:** 0
>
> **Explanation:**
>
> No triplet forms a sum divisible by 3, so the answer is 0.

Constraints:

- `3 <= nums.length <= 10^5`
- `1 <= nums[i] <= 10^5`

Seen this question in a real interview before? 1/5

Yes No

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Topics

Hint 1

Hint 2

Hint 3

Hint 4

Discussion (20)