Problem 16: 3Sum Closest

Problem Information

Difficulty: Medium
Acceptance Rate: 47.56%
Paid Only: No
Tags: Array, Two Pointers, Sorting

Problem Description

Given an integer array `nums` of length `n` and an integer `target`, find three integers in `nums` such that the sum is closest to `target`.

Return _the sum of the three integers_.

You may assume that each input would have exactly one solution.

Example 1:

Input: nums = [-1,2,1,-4], target = 1 **Output:** 2 **Explanation:** The sum that is closest to the target is 2. (-1 + 2 + 1 = 2).

Example 2:

Input: nums = [0,0,0], target = 1 **Output:** 0 **Explanation:** The sum that is closest to the target is 0. (0 + 0 + 0 = 0).

Constraints:

* `3 <= nums.length <= 500` * `-1000 <= nums[i] <= 1000` * `-104 <= target <= 104`

Code Snippets

C++:

```
class Solution {
public:
int threeSumClosest(vector<int>& nums, int target) {

}
};
```

Java:

```
class Solution {
public int threeSumClosest(int[] nums, int target) {

}
}
```

Python3:

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