LEETCODE SOLUTIONS - YOGESH MUNEES

16. 3Sum Closest

Medium | 9.6K | 500

Companies

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).
```

Solution:

```python
class Solution:
    def threeSumClosest(self, nums: List[int], target: int) -> int:
        mindif = 99999
        nums.sort()
        length = len(nums)
        for i in range(length-2):
            if i>0 and nums[i]==nums[i-1]:
                continue
            j = i+1
            k = length-1
            while j<k:
                sum3 = nums[i]+nums[j]+nums[k]
                if sum3<target:
                    j += 1
                    while j<k and nums[j]==nums[j-1]:
                        j+=1
                else:
                    k -= 1
                if abs(mindif-target) > abs(sum3-target):
                    mindif = sum3
        return mindif
```