**Justin\_Array\_TwoPointers\_0016.**  **3Sum Closest**

**Concept:**

先作排序，用for迴圈跑第一個點的位置

第二三個點就是two pointers，找到 abs(target-三個點的總和)小於 abs(diff)，則把 diff 替換掉

如果發現 diff = 0 則直接停止，因為解只會有一個(題意)

最後回傳 target - diff

**Code:**

class Solution:

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

diff = float('inf')

nums.sort()

for i in range(len(nums)):

left, right = i + 1, len(nums) - 1

while (left < right):

sum = nums[i] + nums[left] + nums[right]

if abs(target - sum) < abs(diff):

diff = target - sum

if sum < target:

left += 1

else:

right -= 1

if diff == 0:

break

return target - diff