**Problem #1991: Find the Middle Index in Array. (Easy)**

<https://leetcode.com/problems/find-the-middle-index-in-array/>

**My Solution:**

1. If length of nums is 0, then return -1.
2. Initialize leftSum to 0.
3. Let total be the sum of nums.
4. Let rightSum be the difference of total and nums at index 0.
5. If leftSum and rightSum are equal, then return 0.
6. Iterate through nums array with index I in range 1 through length of nums.

Increment leftSum by nums at index (I – 1).

Subtract from rightSum the element of nums at index i.

If leftSum and rightSum are equal return i.

1. If nothing has been returned when iterating through nums, then return -1.

class Solution:

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

if len(nums) == 0:

return -1

leftSum = 0

total = sum(nums)

rightSum = total - nums[0]

if leftSum == rightSum:

return 0

for i in range(1, len(nums)):

leftSum += nums[i - 1]

rightSum -= nums[i]

if leftSum == rightSum:

return i

return -1