Problem # 724: Find Pivot Index

<https://leetcode.com/problems/find-pivot-index/>

Solution:

1. Take the left\_total to be 0 and the right\_total to be the sum of the array

2. Iterate through the array. Make the element at index 0 as the pivot.

So right\_total = right\_total – the element at the pivot

3. Now check if the right\_total and left total are equal. If so, return the index for the pivot.

4. If not, left\_total = left\_total + element at the pivot.

Note: the pivot is now moving to the next index.

5. After iterating through the whole array if the pivot is not found, return -1.

class Solution:

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

left\_total, right\_total = 0, sum(nums)

for idx, num in enumerate(nums):

# make idx the pivot

right\_total -= num

if left\_total == right\_total:

return(idx)

left\_total += num

return(-1)