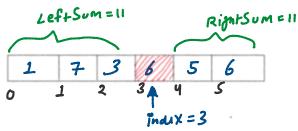
HOMEWORK OF CLASS: 01 DATE:13/09/2023 https://www.linkedin.com/in/manojofficialmj

1. Find pivot element (Leetcode-724)

Example 1:
Input: nums = [1,7,3,6,5,6]
Output: 3
Explanation:
The pivot index is 3.
Left sum = nums[0] + nums[1] + nums[2] = 1 + 7 + 3 = 11
Right sum = nums[4] + nums[5] = 5 + 6 = 11

Input: nums = [1,2,3]
Output: -1
Explanation:
There is no index that satisfies the conditions in the problem statement.





Example 2:

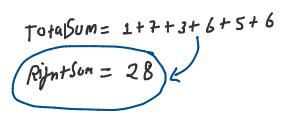
APPROACH PSEUDO CODE:

Step 01: find total sum of array as right sum

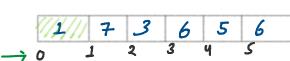
Step 02: subtract element one by one from right sum until left sum is equal to right sum

Step 03: return the index which terminate the loop







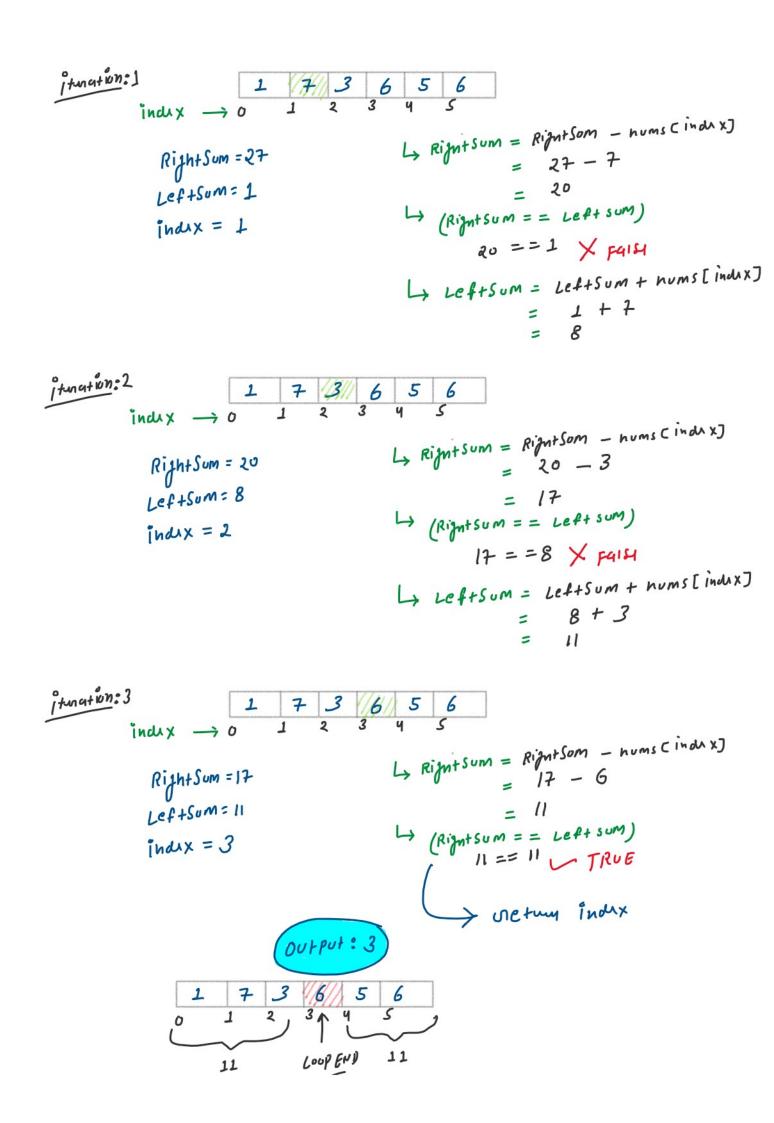


Ly Right Sum = Right Sum - hums (ind x)
$$= 28 - 1$$

$$= 27$$

$$= 27$$

$$(Right Sum = Left sum)$$



- /

```
// HW 01: Find pivot element (Leetcode-724)

class Solution {
public:
    int pivotIndex(vector<int>& nums) {
        int nenums.size();
        int leftSum=0;
        int leftSum=0;
        int leftSum=0;

        // Step 01: total sum as right sum
        for(int i=0;i<n;i++){
            rightSum+=nums[i]; // Subtract element one by one from right sum until left sum equal to right sum
        if(rightSum==leftSum){
            return i; // when leftsum and rigt sum are equal then return index to break the loop
        }
        leftSum+=nums[i]; // left sum is increment by nums[i] element
    }
    return -1; // when there is no index that satisfies the conditions in the problem statement, then return -1
}
```