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

So we are asked to solve a problem where we need to find the index to whose left elements add up to give same result as that of the sum of elements to its right hand side.

So what I have done is I have calculated the totalSum of the array elements.

And then re iterate the array maintaining a prefix sum of the current position.

So if we think carefully the prefix sum is equivalent to sum of its left side elements, and totalSum-prefixSum-ar[i] is the sum of its right side elements.

So if this case occurs for any position then that is the pivot position, p.

If the whole iteration completes and we get no such position then return -1.

Solution:  
class Solution {

public int pivotIndex(int[] nums) {

int totalSum=0,sum=0;

for(int el:nums){

totalSum+=el;

}

for(int i=0; i<nums.length; i++){

if(sum==totalSum-(sum+nums[i])){

return i;

}

sum+=nums[i];

}

return -1;

}

}

Github Link :<https://lnkd.in/ecwtJeaz>