Given an array of numbers, find the index of the smallest array element (the pivot), for which the sums of all elements to the left and to the right are equal. The array may not be reordered.
Example
arr=[1,2,3,4,6]
the sum of the first three elements, 1+2+3=6. The value of the last element is 6.
Using zero based indexing, arr[3]=4 is the pivot between the two subarrays.
· The index of the pivot is 3.
Function Description
Complete the function balancedSum in the editor below.
balancedSum has the following parameter(s):
int arr[n]: an array of integers
int an inj. an analy of integers
Returns;
int: an integer representing the index of the pivot
integer representing the index of the proof
Constraints
· 3≤n≤10 ⁵
· 1 ≤ arr[i] ≤ 2 × 10 ⁴ , where 0 ≤ i < n
It is guaranteed that a solution always exists.
Input Format for Custom Testing
Input from stdin will be processed as follows and passed to the function.
The first line contains an integer n, the size of the array arr.
Each of the next n lines contains an integer, $arr[i]$, where $0 \le i \le n$.
Sample Case 0
Sample Input 0
STDIN Function Parameters

4 → arr[] size n = 4
1 \rightarrow arr = [1, 2, 3, 3]
2
3
3

```
· Using zero based indexing, arr[1]=2 is the pivot between the two subarrays.
```

· The index of the pivot is 1.

Answer: (penalty regime: 0 %)

	Test	Expected	Got	
~	<pre>int arr[] = {1,2,3,3}; printf("%d", balancedSum(4, arr))</pre>	2	2	~
Passed all tests! ✓				

```
Calculate the sum of an array of integers.
Example
numbers = [3, 13, 4, 11, 9]
The sum is 3 + 13 + 4 + 11 + 9 = 40.
Function Description
Complete the function arraySum in the editor below.
arraySum has the following parameter(s):
int numbers[n]: an array of integers
Returns
int: integer sum of the numbers array
Constraints
1 \le n \le 10^6
1 \le \text{numbers}[i] \le 10^6
Input Format for Custom Testing
Input from stdin will be processed as follows and passed to the function.
The first line contains an integer n, the size of the array numbers.
Each of the next n lines contains an integer numbers[i] where 0 \le i < n.
Sample Case 0
Sample Input 0
STDIN Function
5 -- numbers[] size n = 5
1 -- numbers = [1, 2, 3, 4, 5]
4
5
Sample Output 0
15
Explanation 0
1+2+3+4+5=15.
Sample Case 1
Sample Input 1
STDIN Function
2 → numbers[] size n = 2
12 -- numbers = [12, 12]
```

```
Sample Output 1

24

Explanation 1
```

17 + 17 - 74

```
Answer: (penalty regime: 0 %)
 Reset answer
         * Complete the 'arraySum' function below.
   3
        \boldsymbol{*} The function is expected to return an INTEGER.
   4
        \ensuremath{^{*}} The function accepts <code>INTEGER_ARRAY</code> numbers as parameter.
   5
   6
   7
       int arraySum(int numbers_count, int *numbers)
   8
   9 ,
  10
            int sum=0;
  11
            for(int i=0;i < numbers_count;i++){</pre>
          sum += numbers[i];
}
  12
  13
  14
           return sum;
  15
  16
       }
  17
```

