```
Attempt 1

Status Finished

Started Tuesday, 14 January 2025, 10:13 AM

Completed Tuesday, 14 January 2025, 10:22 AM

Duration 9 mins 47 secs

Review
```

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.

```
int balancedSum(int arr_count, int* arr)
{
    int totalSum = 0;
    for(int i = 0; i < arr_count; i++) {
        totalSum += arr[i];
    }
    int leftSum = 0;
    for(int i = 0; i < arr_count; i++) {
        int rightSum= totalSum - leftSum - arr[i];
        if(leftSum == rightSum) {
            return i;
        }
        leftSum += arr[i];
    }
    return 1;
}</pre>
```

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

```
Calculate the sum of an array of integers.
```

Example

numbers = [3, 13, 4, 11, 9]

The sum is 3 + 13 + 4 + 11 + 9 = 40.

```
8    int arraySum(int numbers_count, int *numbers)
9    {
10         int sum = 0;
11         for(int i = 0; i < numbers_count; i++) {
               sum = sum + numbers[i];
               }
14          return sum;
}</pre>
```

	Test	Expected	Got	
~	int arr[] = {1,2,3,4,5}; printf("%d", arraySum(5, arr))	15	15	~

Answer: (penalty regime: 0 %)

```
Reset answer
```

```
#include<stdlib.h>
int compare(const void *a , const void *b) {
    return (*(int*)a - *(int*)b);
}

int minDiff(int arr_count, int* arr)
{
    qsort(arr , arr_count, sizeof(int) , compare);
    int totaldiff = 0;
    for(int i = 1; i < arr_count; i++) {
        totaldiff += abs(arr[i] - arr[i - 1]);
    }
    return totaldiff;
}
</pre>
```

	Test	Expected	Got	
~	int arr[] = {5, 1, 3, 7, 3}; printf("%d", minDiff(5, arr))	6	6	~