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

Returns:

1

int: an integer representing the index of the pivot

Constraints

- 3 s n s 10⁵
- 1 ≤ arr[i] ≤ 2 × 10⁴ 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, $\operatorname{arr}[i]$, where $0 \le i < n$. Sample Case 0 Sample Input 0 STOIN Function Parameters - anf] size n = 4 - arr = [1, 2, 3, 3] ž 3 3 Sample Output 0 2 Explanation 0 The sum of the first two elements, 1+2=3. The value of the last element is 3. Using zero based indexing, arr[2]=3 is the pivot between the two subarrays. The index of the pivot is 2. Sample Case 1 Sample Input 1 STDIN Function Parameters 3 - arr[] size n = 3

D

1 - arr = [1, 2, 1]

- The first and last elements are equal to 1.
- 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 %)

Reset answer

```
1 . / "
    * Complete the 'balancedSum' function below.
  2
  3
     * The function is expected to return an INTEGER.
  4
     * The function accepts INTEGER ARRAY arr as parameter.
  6
 7.
    int balancedSum(int arr_count, int* arr)
 8
 9 . {
10
       int totalsum=0;
       for(int i=0;i<arr_count;i++)
11
12 .
13
           totalsum+=arr[i];
14
15
       int leftsum=0;
       for(int i=0;i<arr_count;i++)
16
17 .
           int rightsum = totalsum - leftsum - arr[i];
18.
19
           if(leftsum==rightsum)
20 .
21
            return i;
22
23
           leftsum+=arr[i];
24
25
       return 1;
26
   1
27
```

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Test	Expected	Got	
int accit = 11.2.2.23			

printf("%d", balancedSum(4, arr))

Question 2 Correct

P Flag question

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 ≤ n ≤ 104

 $1 \le numbers[i] \le 10^4$

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]

2

3

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]

12

Sample Output 1

0

Explanation 1

12 + 12 = 24.

Answer: (penalty regime: 0 %)

Reset answer

```
* Complete the 'arraySum' function below.
2
3
    * The function is expected to return an INTEGER.
4
    * The function accepts INTEGER_ARRAY numbers as parameter.
6
7
8  int arraySum(int numbers_count, int "numbers)
9 + {
10
       int sum=0;
       for(int i=0;i<numbers_count;i++)</pre>
11
12 .
13
            sum = sum+numbers[i];
14
15
       return sum;
16 }
17
```

	Test	Expected	Got
9	int arr[] = (1,2,3,4,5); printf("Kd", arraySum(5, arr))	15	15 🗸

Passed all tests! ~

Correct

Filed question

Given an array of n integers, rearrange them so that the sum of the absolute differences of all adjacent elements is minimized. Then, compute the sum of those absolute differences. Example n = 5 and [1,3,3,2,4] if the list is rearranged as arr' = [1,2,3,3,4], the absolute differences are [1,2] = 1, [2+3] = 1, [3+3] = 0, [3+4] = 1. The sum of those differences is [1+1+0+1] = 3. Function Description Complete the function minDriff in the editor below minDriff has the following parameter arr, an integer array Returns into the sum of the absolute differences of adjacent elements Constraints $2 \le n \le 105$. Or sample 109, where $0 \le i < n$ input Format For Custom Testing The first line of input contains an integer, it, the size of air, Each of the following in lines contains an integer because [1,3,3,3,3] is an integer than integer than 100 and 100 arr [1,3,3,3,3]. The first line of input contains an integer in the size of air, Each of the following in lines contains an integer than 100 arr [1,3,3,3,3,3] is an array [1,3,3,3,3,3]. The first line of input contains an integer in [1,3,3,3,3,3] is an array [1,3,3,3,3,3]. The differences are minimized. The final answer is [1,3] + [3,3]

Answer: (penalty regime: 0 %)

```
Reset answer
```

```
1 < /*

2 * Complete the 'minOiff' function below

4 * The function is expected to return an INTEGER.

5 * the function accepts INTEGER_ARRAY are as parameter.

6 */

7 #include(stdlib,h)

8 int compare(const vaid *a,const void*b)

9 * {

10     return (*(int*)a - *(int*)b);

11     }

12     int minDiff(int arc_count, int* arr)

13 * {

14          gsort(arr,arr_count,sizeof(int),compare);

15          int totaldiff=0;

16          totaldiff=0sts(arr[i]-arr[i-1]);

17          }

18          return totaldiff;

19          return totaldiff;

20          return totaldiff;

21 }
```

