```
Question 1
                     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.
Correct

Flag
question
                     arr=[1,2,3,4,6]
                     \cdot 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 integer representing the index of the pivot
                     Constraints
                     · 3 ≤ n ≤ 10<sup>5</sup>
                     · 1 \le arr[i] \le 2 \times 10^4, where 0 \le 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.
```

Source Code

Sample Case 0 Sample Input 0

STDIN Function Parameters

4 → arr[] size n = 4

Each of the next n lines contains an integer, arr[i], where $0 \le i < n$.

Answer: (penalty regime: 0 %)

```
Reset answer
```

```
* Complete the 'balancedSum' function below.
 * The function is expected to return an INTEGER.
 * The function accepts INTEGER ARRAY arr as parameter.
 */
 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;
}
```

Result

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

Passed all tests! <

```
Question 2
Correct

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 \le n \le 10^4
```

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

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
24
Explanation 1
12 + 12 = 24.
```

Source Code

Answer: (penalty regime: 0 %)

Reset answer

```
/*
  * Complete the 'arraySum' function below.
  *
  * The function is expected to return an INTEGER.
  * The function accepts INTEGER_ARRAY numbers as parameter.
  */
int arraySum(int numbers_count, int *numbers)
{
  int sum=0;
  for(int i=0;i<numbers_count;i++)
  {
    sum=sum+numbers[i];
  }
  return sum;
}</pre>
```

Result

	Test	Expected	Got		
~	<pre>int arr[] = {1,2,3,4,5}; printf("%d", arraySum(5, arr))</pre>	15	15	~	
Passed all tests! ✓					

Question 3
Correct

Source Code

```
#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>
```

Result

Γ		Test	Expected	Got		
	~	<pre>int arr[] = {5, 1, 3, 7, 3}; printf("%d", minDiff(5, arr))</pre>	6	6	~	
Passed all tests! ✓						