Question 1
Correct
F Flag question

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]

- \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

Returns

int: an integer representing the index of the pivot

Constraints

- · 3 ≤ n ≤ 10⁵
- $1 \leq arr[i] \leq 2 \times 10^4 \text{, where } 0 \leq i < n$
- · It is guaranteed that a solution always exists.

Input Format for Custom Testing

Activate Windows
Go to Settings to activate Windows

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 $0 \le i < n$.

Sample Case 0

Sample Input 0

STDIN Function Parameters

4 → arr[] size n = 4

1 → arr = [1, 2, 3, 3]

2

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

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2 🗸

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Question 2
                     Calculate the sum of an array of integers.
Correct

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                     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
                     int: integer sum of the numbers array
                     Constraints
                     1 ≤ n ≤ 10<sup>4</sup>
                     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.
                                                                                                                                                              Activate Windows
                     The first line contains an integer n, the size of the array numbers.
```

 $\underline{\mathsf{Each}} \ \text{of the next n lines contains an integer numbers[i] where } 0 \leq i < n.$

```
Sample Case 0
Sample Input 0
STDIN Function
5 → numbers[] size n = 5
1 → numbers = [1, 2, 3, 4, 5]
3
4
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]
                                                                                                            Activate Windows
12
                                                                                                            Go to Settings to activate Windows
Sample Output 1
```

Question **3**Correct

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Answer: (penalty regime: 0 %)