

```
1 1 /*
2 2  * Complete the 'balancedSum' function below.
3 3  *
4 4  * The function is expected to return an INTEGER.
5 5  * The function accepts INTEGER_ARRAY arr as parameter.
6 6  */
7 7
8 8 int balancedSum(int arr_count, int* arr)
9 9 {
10 10     int totalSum = 0;
11 11     for (int i = 0; i < arr_count; i++) {
12 12         totalSum += arr[i];
13 13     }
14 14     int leftSum = 0;
15 15     for(int i = 0; i < arr_count; i++){
16 16         int rightSum = totalSum - leftSum - arr[i];
17 17         if(leftSum == rightSum){
18 18             return i;
19 19         }
20 20         leftSum += arr[i];
21 21     }
22 22     return 1;
23 23 }
24 24
```

	Test	Expected	Got	
✓	int arr[] = {1,2,3,3}; printf("%d", balancedSum(4, arr))	2	2	✓

Passed all tests! ✓

```
1 1 /*
2 2  * Complete the 'arraySum' function below.
3 3  *
4 4  * The function is expected to return an INTEGER.
5 5  * The function accepts INTEGER_ARRAY numbers as parameter.
6 6  */
7 7
8 8 int arraySum(int numbers_count, int *numbers)
9 9 {
10 10     int sum = 0;
11 11     for (int i = 0; i < numbers_count; i++){
12 12         sum += numbers[i];
13 13     }
14 14     return sum;
15 15 }
16 16
```

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

Passed all tests! ✓

```

1 1 /*
2 2  * Complete the 'minDiff' function below.
3 3  *
4 4  * The function is expected to return an INTEGER.
5 5  * The function accepts INTEGER_ARRAY arr as parameter.
6 6  */
7 7
8 8 #include <stdlib.h>
9 9 int compare(const void *a, const void *b){
10 10     return (*(int*)a - *(int*)b);
11 11 }
12 12
13 13 int minDiff(int arr_count, int* arr)
14 14 {
15 15     qsort(arr, arr_count, sizeof(int), compare);
16 16     int totalDiff = 0;
17 17     for (int i = 1; i < arr_count; i++){
18 18         totalDiff += abs(arr[i] - arr[i-1]);
19 19     }
20 20     return totalDiff;
21 21 }
22 22

```

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

Passed all tests! ✓