

WEEK - 13

> Assessment-12-Recursive Functions

Week-13-Passing Arrays and Strings to Functions

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Done

Assessment-13-Passing Arrays and Strings to Functions

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

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

Passed all tests! ✓

```

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

```

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

Passed all tests! ✓

```

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

```

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

Passed all tests! ✓