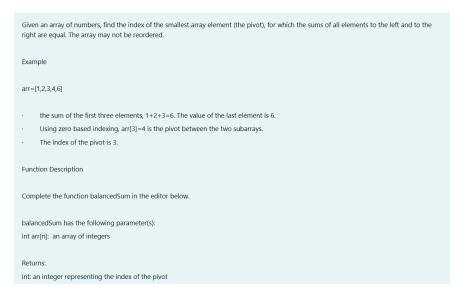
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Week 13: passing array to a function

1. balanced array

Problem statement:



Program:



2. Sum them all

Problem statement:

```
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
```

Program:

			t
~	2,3,4,5}; 15 raySum(5, arr))	15	~
prin	raySum(5, arr))		

3. Minimum difference sum

Problem statement:

Program:

```
* Complete the 'minDiff' function below.
 3
     \ensuremath{^{*}} The function is expected to return an <code>INTEGER.</code>
 4
     * The function accepts INTEGER\_ARRAY arr as parameter.
 5
 6
7
    int minDiff(int arr_count, int* arr)
8
9
         for(int i=0;i<arr_count-1;i++)</pre>
10
11
              for(int j=0;j<arr_count-i-1;j++)</pre>
12
13 v
                  if(arr[j]>arr[j+1])
14
15
                      int temp=arr[j];
16
                      arr[j]=arr[j+1];
17
                      arr[j+1]=temp;
18
19
20
             }
21
22
         int sum=0;
         for(int i=0;i<arr_count-1;i++)</pre>
23
24
25
             sum+=abs(arr[i]-arr[i+1]);
26
27
         return sum;
28
    }
29
```

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