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| Name: _____ | SCSJ 1013 |
| Time: 30 Minutes | Programming Techniques I |

Write a program which takes input from user of two (2) arrays of 5 integers each, named **array1** and **array2**. Meanwhile, **array3** is an array with ten (10) integer numbers. The program should put into **array3** the appending elements of **array2** to **array1**, which is the first five (5) integers of **array3** come from **array1**, the latter five (5) integers come from **array2**. Then, the program should display the contents of **array3**, the average of ten numbers, the range of values and the number of odd numbers in **array3**. The range of values in array is the difference between the largest and smallest values. **Figure 1** illustrates an example run of the program. *Note:* The **bold** texts in the example run indicate input from the user.

```

Enter table array1:
Please enter an integer: 3
Please enter an integer: 6
Please enter an integer: 9
Please enter an integer: 12
Please enter an integer: 15

Enter table array2:
Please enter an integer: 2
Please enter an integer: 4
Please enter an integer: 16
Please enter an integer: 64
Please enter an integer: 36

OUTPUT:
Table array3:
3 6 9 12 15 2 4 16 64 36

The average of ten numbers in array3 = 16.7
The range of values in array3 = 62
The number of odd numbers in array3 = 3

```

Figure 1: Example run

The assessment criteria for the program is as shown in the following table:

| Item | Criteria | Marks |
|--------------|--|-----------|
| A | i) The program is able to run and display correct output | 2 |
| | ii) Using an appropriate structure for the program (e.g. all required header files are included and the function main is properly written) | 2 |
| B | Using array concept in the program | 26 |
| Total | | 30 |