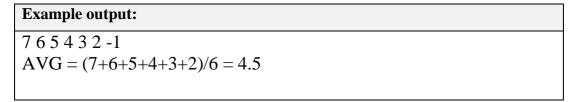**Name:** _____ **ID:** _____

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**Due:** today or in a lab session next week

**Instructions:**

- Marking lab assignments will be done in the lab
- **Compile** and **Run** your program
- **Show** and **Explain** the output to the lecturer or the lab assistance.

-------------------------------------- **Lab Assignments** ----------------------------------

In this assignment, you need to write C programs for the following problems.

**Lab 1:** Declare an array of size 5, Let a user enter 5 positive numbers to the array. Then, sum the number at position 1,3,5 together and display the output as below

| **Example output:** |
|---|
| 4 8 7 15 3<br>SUM = 14 |

**Lab 2:** Declare an array of size 10. Let a user enter as many values (positive integers) as possible into the array until enter a negative value to signal the end of the input or exceed the maximum value. Then, find the average of the values and show the output as below. For example:

| **Example output:** |
|---|
| 7 6 5 4 3 2 -1<br>AVG = (7+6+5+4+3+2)/6 = 4.5 |

**Lab 3:** Declare an array of size 5, Let a user enter 5 positive numbers to the array. Then, swap the number at position (1 and 5) and (2 and 3). Then display the output as below

For example:

| Example output: |
| --- |
| 7 6 5 4 3 |
| |
| 3 5 6 4 7 |

## Bonus Questions

**Bonus Lab:** Declare two arrays of size 5 named A and B respectively. Assign the following value to the array A: 5 4 3 2 1. Next, write a program to copy the elements one array into another array and display it in reverse order as below

| Example output: |
| --- |
| 1 2 3 4 5 |
| |