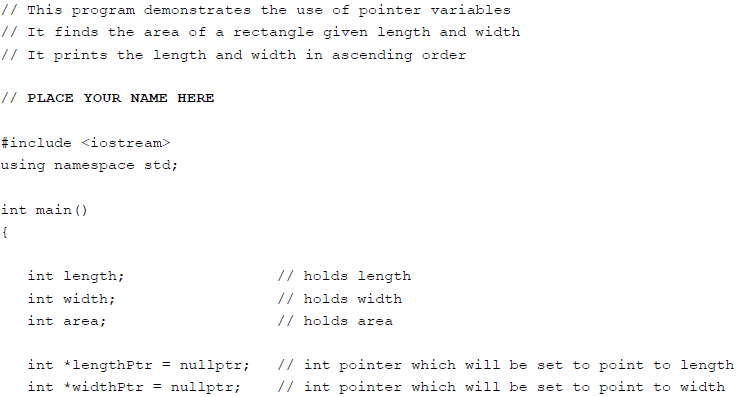
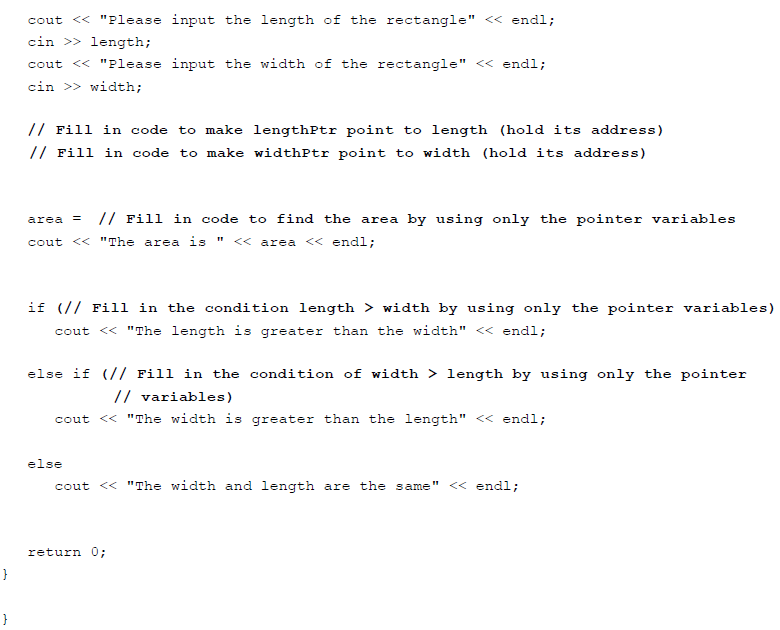
***Directions:*** Complete the Questions below (10 points each). Display a snippet of the code and the output below:

**COP2335: Object-Oriented Programming Lab 8**

1) Complete this program by filling in the code (places in bold). Note: use only pointer variables when instructed to by the comments in bold. This program is to test your knowledge of pointer variables and the & and \* symbols.





**Text

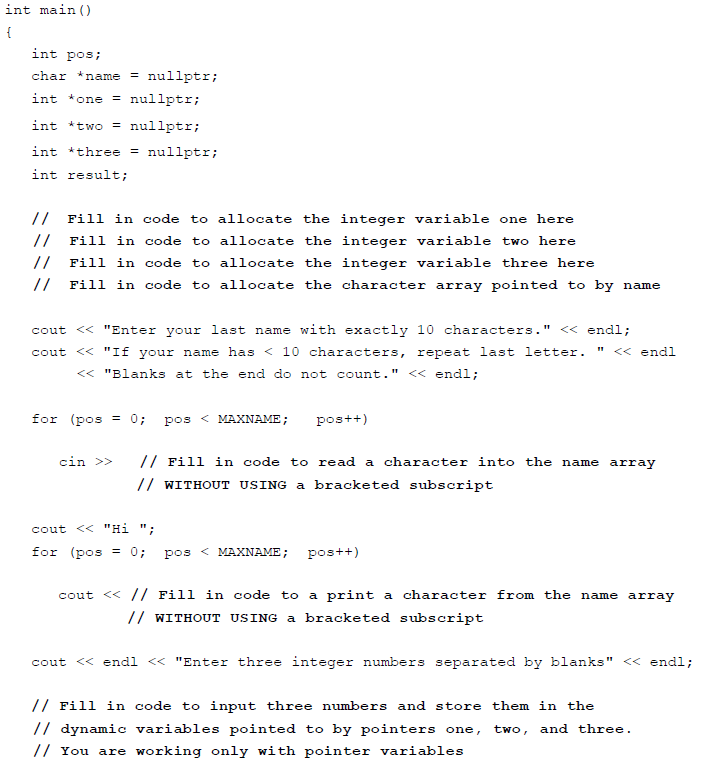
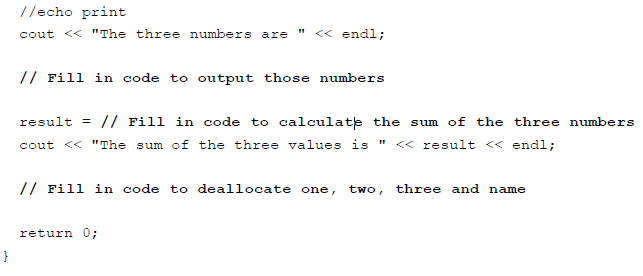
Description automatically generated**

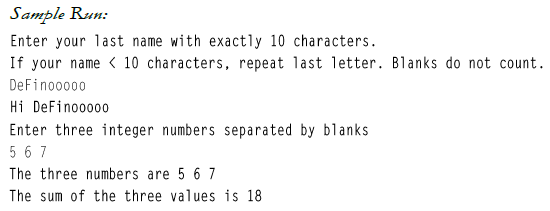
**Snippet of the Output:**

**Graphical user interface, text

Description automatically generated**

*Exercise 2:* Run the program with the following data: 10 15. Provide a snippet below of the code:

2) Complete the program by filling in the code. (Areas in bold) This problem requires that you study very carefully the code already written to prepare you to complete the program.



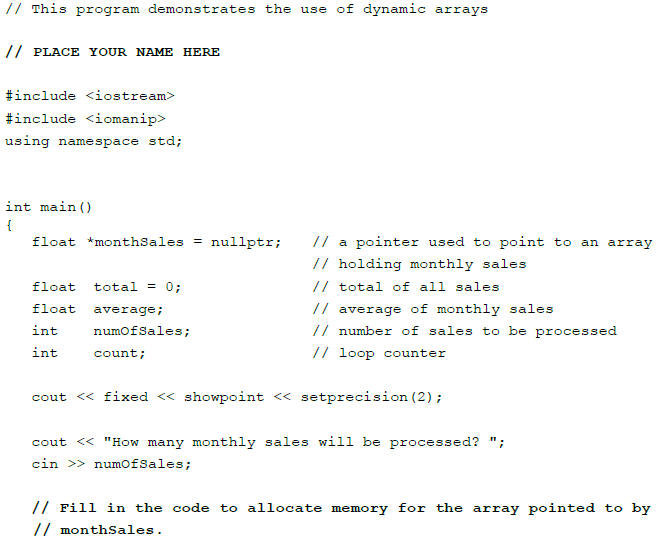
**Snippet of the Code:**

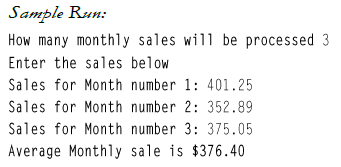
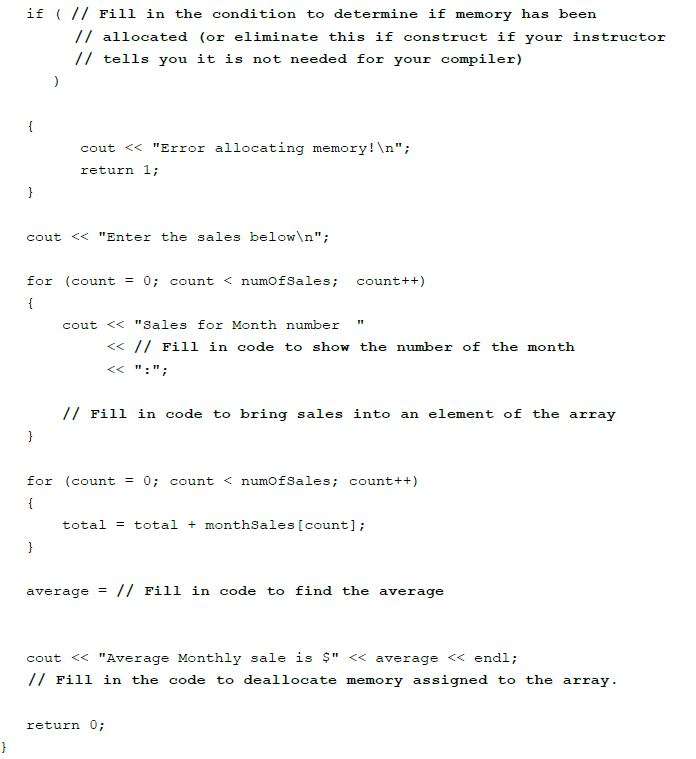
**Text

Description automatically generated**

**Text

Description automatically generated**

3) Fill in the code as indicated by the comments in bold.



**Text

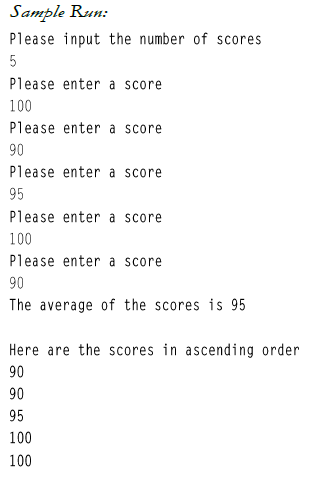
Description automatically generated**

**Snippet of the Output:**

**Text

Description automatically generated**

4) Write a program that will read scores into an array. The size of the array should be input by the user (dynamic array). The program will find and print out the average of the scores. It will also call a function that will sort (using a bubble sort) the scores in ascending order. The values are then printed in this sorted order.



**Snippet of the Code:**

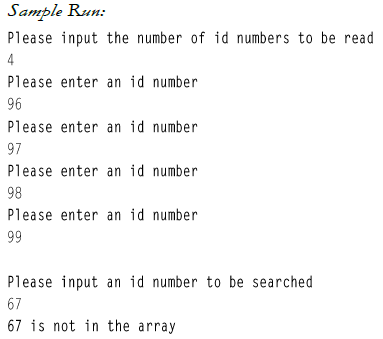
**Text

Description automatically generated**

**Text

Description automatically generated**

5) Create a program that will read in id numbers and place them in an array. The array is dynamically allocated large enough to hold the number of id numbers given by the user. The program will then input an id and call a function to search for that id in the array. It will print whether the id is in the array or not.



**Snippet of the Output:**

Text

Description automatically generated

Text

Description automatically generated

Text

Description automatically generated