- 1. What does the acronym SASP stand for? Fill in the four blanks.
- 2. Write the complete C++ program that can find the sum of the integers 1, 2, 3 ... n where n is a positive integer that is entered by the user of your program. For example:

Please enter	an integer:	5
The sum is:	15	

3. Figure 5-1: Draw the flow chart for the logic of a while loop, as it was shown on page 233 of textbook (*which you also received as a handout*).

4. It is important to focus on P first and then focus on I and O. True or False

Circle either True or False

- 5. Write a C++ function that will swap the integer values in two different variables. For example, if variable X has the value 111 and variable Y has the value 222 before doing the swap(X, Y); statement, then after swap() is done, X will be 222 and Y will be 111. You only need to write the function.
- 6. Write the complete C++ function that will return the product of the numbers 1 times 2 times 3 times ... times n, given the integer value n. Name your function factorial. For example:

Х	=	<pre>factorial(3);</pre>	//	Х	would	be	6
Y	=	<pre>factorial(4);</pre>	//	Y	would	be	24
Z	=	<pre>factorial(5);</pre>	//	Z	would	be	120

7. Show what the BUBBLE SORT results will look like after each pass through the array?

88		
44		
77		
22		
11		