OOP244SCC Quiz 3:

Print Full Name:

Seneca Email ID: *@myseneca.ca*   Student number:

1- Name the three types of methods in a class:
2- Having the following structure:

```cpp
struct Box {
    int m_height;
    int m_width;



};
```

Add a function called display that shows values of the box as follows:
m_height x m_width
and go to new line.
(if m_height has the value 10 and m_width has the value 8 the display method
should print: 10 x 8 and go to new line)
3- Write a main function and in it create an instance of Box called "B" and set the
height and width to 10 and 8 and then call the display of "B" to print it.
4- Rewrite (declare) the Box structure and make sure the two integers are only
accessible by the class members and the display functions is accessible by all.
5- What is the difference between a class and a structure in C++.
6- What do ignore functions do in cin?
7- Assuming there is an integer called "num" with 127 in it; print it in 10 spaces
and fill the left with "@".   (i.e "@@@@@@@127")
8- Assuming there is a double variable called "price" with the value 123.4567; print
it with only 2 digits after the decimal point. (i.e "123.46")
9- What is "this" in C++?
10- Add a default constructor to the Box structure (class) to set the height and width
to zero;
11- Add a constructor that accepts one integer argument called "side" as an argument
and sets the height and width to that value.
12- Add a constructor that accepts two integer arguments called "h" and "w" and sets
the m_height and m_width to the corresponding values.
13- What is a destructor.
14- If the Box only had the one and two argument constructors and no default
constructor could we have an array of Boxes created as follows?
Box B[10];
Why?