ADT/Templates/Basic Inheritance – Study Questions

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-	What is the difference	petween	overioadinc	and	overriging a	tunction?
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- Can you override a function that is not a member function of a class?
- Write an example of a function with default arguments.
- When might it be ok to use friend functions?

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- Write the interface of a simple class Polygon with two integer private members height_
 and width_ a parameterized constructor that takes two parameters height and width,
 and three public members: int getHeight(); int getWidth; and double area();
- Write the **interface and implementation** of two classes **Triangle** and **Rectangle** that **inherit** from **Polygon**. Thus **Polygon** is the base class and **Triangle** and **Rectangle** are two derived classes. Write the implementation for both the derived classes. Remember, the constructor is not inherited. You must override area() which is computed differently in each class. What about getWidth() and getHeight()?
- When would you declare class members as protected?
- What is the call order for Constructors with inheritance? For Destructors?
- When should a base class Constructor be called explicitly. Give a C++ example of how you would do that.

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