

Chapter 7 CRT - Sophia Chen - CompSci 20

1. Members of the circle class that are encapsulated are private double variable radius, and the private static final double variable PI.
2. The name of the constructor of a class must be the same as the class itself.
3. Private access modifiers are used for the declaration of class members that are only visible to the class itself, not the client code. On the other hand, public access modifiers are used for the declaration of class members that are both visible to the class AND the client code.
4. The last statement `dot.radius = 5;` is invalid because the radius variable is declared as private in the Circle class. Private members can only be accessed and modified within the class itself, not directly from outside the class.
5.
 - a. Roo
 - b. x
 - c. getX()
 - d. setX(int z)
 - e. factor(12)
 - f. Roo
 - g. 4 method members
6. A class is a type of data that makes up an object; defining its variables for its state, and methods for the behaviour of the said object. On the other hand, an object is the instance of a class; storing provided data, and performing actions defined BY the class.
9.
 - a. z
 - b. y and x.
 - c. y
 - d. x and z