

Chapter 7 CRT

1. What members of the Circle class are encapsulated?

double radius;
double PI ;

2. What name must the constructor of a class have?

The same name of the class.

3. Explain the difference between the private and public access modifiers.

Anything with the public modifier is visible and accessible from other classes, while anything with the private modifier is only visible within the same class.

4. Consider the following code. Is the last statement valid or invalid? Explain.

No, the last statement is not valid as the radius variable has the private modifier, and is not accessible from outside its class.

5. Use the following class to answer the questions below:

- a) What is the name of the class?
Roo
- b) What is the name of the data member?
x
- c) List the accessor method.
getX()
- d) List the modifier method.
setX(int z)
- e) List the helper method.
calculate()
factor()
- f) What is the name of the constructor?
Roo
- g) How many method members are there?
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6. What is the difference between a class and an object?

A class defines the attributes of objects, whereas an object is an instance of a class that can store, and utilize data.

9. Use the following class data member definitions to answer the questions below:

a) What data member is a constant?

z

b) Which data members are variables?

y

x

z

c) Which data member(s) are instance members?

y

d) Which data member(s) are class members?

x

z