

## Capítulo 9

*This activity contains 24 questions.*

1.

### *Section 9.2 Time Class Case Study*

*9.2 Q1: Member access specifiers (public and private) can appear:*

- ☐ *a.d. Outside a class definition.*
- ☐ *a.c. In any order and multiple times, if they have brackets separating each type.*
- ☐ *In any order and multiple times.*
- ☐ *a.b. In any order (public first or private first) but not multiple times.*

2.

*9.2 Q2: Which of the following preprocessor directives does not constitute part of the preprocessor wrapper?*

- ☐ *#define.*
- ☐ *#ifndef.*
- ☐ *#endif.*
- ☐ *#include.*

3.

*9.2 Q3: Member function definitions:*

- ☐ *Always require the binary scope operator (::).*
- ☐ *Must use the binary scope operator in their function prototype.*
- ☐ *Can use the binary scope operator anywhere, but become public functions.*
- ☐ *Require the binary scope operator only when being defined outside of the definition of their class.*

4.

*9.2 Q4: Parameterized stream manipulator setfill specifies the fill character that is displayed when an output is displayed in a field wider than the number of characters or digits in the output. The effect of setfill applies:*

- ☐ *Until explicitly set to a different setting.*
- ☐ *Only to the current value being displayed.*
- ☐ *Only to outputs displayed in the current statement.*
- ☐ *Until the output buffer is flushed.*

5.

9.2 Q5: Every object of the same class:

- ☐ Gets a copy of every member function.
- ☐ Gets a copy of every member function and member variable.
- ☐ Gets a copy of every member variable.
- ☐ Shares pointers to all member variables and member functions.

6.

9.2 Q6: Classes cannot:

- ☐ Be derived from other classes.
- ☐ Be used to model attributes and behaviors of objects.
- ☐ a.d. Include objects from other classes as members.
- ☐ Initialize data members in the class definition.

7.

Section 9.3 Class Scope and Accessing Class Members

9.3 Q1: Variables defined inside a member function of a class have:

- ☐ Class or block scope, depending on whether the binary scope resolution operator (::) is used.
- ☐ File scope.
- ☐ Block scope.
- ☐ Class scope.

8.

9.3 Q2: A class-scope variable hidden by a block-scope variable can be accessed by preceding the variable name with the class name followed by:

- ☐ ->.
- ☐ ::.
- ☐ ..
- ☐ ::.

9.

Section 9.4 Separating Implementation from Interface

,br> 9.4 Q1: When independent software vendors provide class libraries to clients, they typically give the \_\_\_\_\_ for the class's

interface and the \_\_\_\_\_ for the class's implementation.

- ☐ Object module file, source code file.
- ☐ Source code file, source code file.
- ☐ Object module file, object module file.
- ☐ Source code file, object module file.

10.

9.4 Q2: Which of the following is not true about separating a class's interface and implementation?

- ☐ Private data members are included in the header file.
- ☐ Inline member function definitions are included in the header file.
- ☐ Changes in the class's implementation will affect the client.
- ☐ Changes in the class's interface will affect the client.

11.

Section 9.5 Access Functions and Utility Functions

9.5 Q1: The type of function a client would use to check the balance of his bank account would be:

- ☐ A predicate function.
- ☐ A utility function.
- ☐ An access function.
- ☐ A constructor.

12.

9.5 Q2: Utility functions:

- ☐ Are intended to be used by clients of a class.
- ☐ Are part of a class's interface.
- ☐ Are separate member functions that support operations of the class's other member functions.
- ☐ Are a type of constructor.

13.

Section 9.6 Time Class Case Study: Constructors with Default Arguments

9.6 Q1: A default constructor:

- ☐ Does not perform any initialization.

- ☐ Both (a) and (b).
- ☐ Is the constructor generated by the compiler when no constructor is provided by the programmer.
- ☐ Is a constructor with all default arguments.

**14.**

9.6 Q2: If a member function of a class already provides all or part of the functionality required by a constructor or another member function then:

- ☐ Call that member function from this constructor or member function.
- ☐ That member function is unnecessary.
- ☐ This constructor or member function is unnecessary.
- ☐ Copy and paste that member function's code into this constructor or member function.

**15.**

#### Section 9.7 Destructors

9.7 Q1: Which of the following is not true of a constructor and destructor of the same class?

- ☐ They are both usually called once per object created.
- ☐ They both have the same name aside from the tilde (~) character.
- ☐ Both are called automatically, even if they are not explicitly defined in the class.
- ☐ They both are able to have default arguments.

**16.**

9.7 Q2: Which of the following is not true of a destructor?

- ☐ It performs termination housekeeping.
- ☐ If the programmer does not explicitly provide a destructor, the compiler creates an "empty" destructor.
- ☐ It is called before the system reclaims the object's memory.
- ☐ It releases the object's memory.

**17.**

#### Section 9.8 When Constructors and Destructors Are Called

9.8 Q1: Given the class definition:

```
class CreateDestroy
{
public:
    CreateDestroy() { cout << "constructor called, "; }
    ~CreateDestroy() { cout << "destructor called, "; }
};
```

What will the following program output?

```
int main()
{
    CreateDestroy c1;
    CreateDestroy c2;
    return 0;
}
```

- ☐ constructor called, destructor called, .
- ☐ constructor called, constructor called, destructor called, destructor called, .
- ☐ constructor called, destructor called, constructor called, destructor called, .
- ☐ constructor called, constructor called, .

**18.**

9.8 Q2: Given the class definition:

```
class CreateDestroy
{
public:
    CreateDestroy() { cout << "constructor called, "; }
    ~CreateDestroy() { cout << "destructor called, "; }
};
```

What will the following program output?

```
int main()
{
    for ( int i = 1; i <= 2; i++ )
        CreateDestroy cd;
    return 0;
}
```

- ☐ constructor called, constructor called, destructor called, destructor called, .
- ☐ constructor called, destructor called, constructor called, destructor called, .
- ☐ Nothing.
- ☐ constructor called, constructor called, .

19.

*Section 9.9 Time Class Case Study: A Subtle Trap—Returning a Reference to a private Data Member*

*9.9 Q1: Returning references to non-const, private data:*

- ☐ *Allows private functions to be modified.*
- ☐ *Allows private member variables to be modified, thus "breaking encapsulation."*
- ☐ *Results in a compiler error.*
- ☐ *Is only dangerous if the binary scope resolution operator (::) is used in the function prototype.*

20.

*9.9 Q2: A client changing the values of private data members is:*

- ☐ *Possible using public functions and references.*
- ☐ *Never possible.*
- ☐ *Only possible by calling private member functions*
- ☐ *Only possible if the private variables are not declared inside the class.*

21.

*Section 9.10 Default Memberwise Assignment*

*9.10 Q1: The assignment operator (=) can be used to:*

- ☐ *Copy data from one object to another.*
- ☐ *Test for equality.*
- ☐ *Copy a class.*
- ☐ *Compare two objects.*

22.

*Section 9.11 Software Reusability*

*9.11 Q1: Many \_\_\_\_\_ exist which help to develop programs from portable, carefully tested and widely available components.*

- ☐ *Object libraries.*
- ☐ *Structured program environments.*
- ☐ *Driver files.*
- ☐ *Class libraries.*

23.

*Section 9.12 (Optional) Software Engineering Case Study: Starting to Program the Classes of the ATM System*

*9.12 Q1: Associations in a class diagram that have no navigability arrows at all indicate:*

- ☐ *That the two classes are the same.*
- ☐ *That navigation can proceed in either direction across the association.*
- ☐ *That operations performed by this association do not return values.*
- ☐ *Inheritance from the same base class.*

24.

*9.12 Q2: Which of the following is not true about declaring references to objects of other classes inside a class definition?*

- ☐ *If the class names for the other objects are used only to declare these references, a forward declaration can replace the #include statement usually used to include those classes' header files.*
- ☐ *Each reference only requires enough memory to store the memory address of the object it references.*
- ☐ *These references can represent directional associations from a UML class diagram.*
- ☐ *These references can be initialized inside the class definition.*

[Clear Answers / Start Over](#)[Submit Answers for Grading](#)

*Answer choices in this exercise appear in a different order each time the page is loaded.*



*Copyright © 1995 - 2010 [Pearson Education](#) . All rights reserved.  
[Legal Notice](#) | [Privacy Policy](#) | [Permissions](#)*