









Review answers

Start date:	9 minutes ago
Complete date:	A moment ago
Question 1:	Which statement is true about classes and objects?
	 ○ Classes classify objects in separate groups. ○ Objects state the objectives of a class. ② Classes describe the structure and behaviour of similar objects. An object is an instance of a class. ○ Objects describe the structure and behaviour of similar classes. A class is an instance of an object.
Question 2:	What is encapsulation in the context of object-oriented programming?
	 Bundling data with functionality that operates on that data. Hiding data from users. Compiling multiple classes in to one executable file. The process of writing a class.
Question 3:	Which statement is <u>false</u> about constructors?
	 ✓ If we don't make a default constructor, then the system only creates one with a standard implementation when we didn't create any other constructors. ✓ If we don't make a copy constructor, then the system always creates one with a standard implementation. ✓ If we don't make a default constructor, then the system always creates one with a standard implementation. ✓ The copy constructor copies the state of an object and must accept a reference to the source object.
Question 4:	What statement is <u>false</u> about function name overloading?
	Overloading works with both member functions and global functions.

- Two functions can have the same name as long as the input arguments have different types. O Two functions can have the same name as long as the number of input arguments are different. O Two functions can have the same name as long as the output arguments have different types. Local variables can be defined at?
- Question 5:
- Only at the beginning of a function in both C and C++.
- O C and C++ don't have local variables.
- O Everywhere in a function in both C and C++.
- Only at the beginning of a function in C and everywhere in a function in C++.
- Question 6:

What statement is false about "pass by value" vs. "pass by reference"?

- parameter with a '*'.
- O Pass by value makes a copy of the argument.
- O Pass by value is less efficient than pass by reference for objects.
- O To pass an argument by reference you need to declare the input parameter with a '&'
- Question 7:

What statement is true about the use of #ifndef/#define/#endif statements in a class header file?

```
C++:
                                                              βĥ
    #ifndef MyClass_hpp
1
    #define MyClass_hpp
2
3
    class MyClass
4
5
6
    };
7
8
    #endif
```

- O The name of the #define must be the same as the header file.
- ∅ The #indef/#define/#endif statements are needed to ensure the class declaration can only be included once in each compilation unit.
- O The name of the #define must be the same as the class name.
- O The #indef/#define/#endif statements are needed to make the class known to the compiler. Else other files can't find the class that is declared.

Question 8:

Which statement is true about data hiding?

- O Data hiding ensures the data cannot be changed.
- O Data hiding saves memory space.
- O Data hiding is mandatory in C++.
- Onta hiding hides the internal data of a class from users of the class so the internal structure can be changed without affecting the users of a class.

Question 9:

What statement is true about the following class?

```
C++:
                                                            ďΫ
    // In the header file: "MyClass.hpp"
 2
    class MyClass
 3
    {
 4
      int m_data1;
 5
      MyClass();
 6
 7
 8
    private:
       double m_data2;
9
10
11
    // In the source file: "MyClass.cpp"
12
    #include "MyClass.hpp"
13
14
    MyClass::MyClass()
    {
15
    }
16
```

- O Client code can instantiate this class because it defines a default constructor.
- O The initial value of *m_data2* is 0.0.
- *m_data1* is a public data member.

Question 10:

Which statement is false about inline functions?

- O Inline functions can be executed faster than non inline functions.
- Functions declared as inline may not be compiled as regular function.
- O Member functions implemented within the class definition must also have the keyword *inline* to be compiled as inline.
- O The implementation of an inline function must be available at

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compile time. The function cannot be inlined when the function implementation is only available at link time.

Score:

7 (70.00%)

Pass/Fail:

Failed

Quiz >

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