CS 3723: Programming Languages

Apr 18, 2012

You Name:

1. Which of the following function implementations are statically bound at compile-time? Which are dynamically looked up at runtime?

    (a) C++ default member functions

    (b) Java default member functions

    (c) C++ virtual functions

    (d) Java static functions

    (e) C++/Java overloaded functions

    (f) C++ templated functions

2. Which of the following situations use subtype polymorphism, implementation inheritance, or simply code reuse with neither subtype declaration nor implementation inheritance?

    (a) A C++/Java class, say foo, inherits the public interface methods of another class bar.

    (b) A C++/Java class, say foo, inherits the private implementations of another class bar and then modify the behavior of bar objects.

    (c) A C++/Java class, say foo, includes an object of another class bar as member and then simulate the behavior of bar objects.