FPP Quiz 1

```
1. class MyClass{
      System.out.println("hello");
   When you compile/run this program the result is:
   a. Outputs hello to the console
   b. Compiler error
   c. Runtime exception
2. class MyClass {
      public static void main(String[] args) {
         myMethod();
      public void myMethod() {
         System.out.println("hello");
   When you compile/run this program the result is:
   a. Outputs "hello" to the console
   b. Compiler error
  c. Runtime exception
3. class MyClass {
      public static void main(String[] args) {
         MyClass m = new MyClass();
         m.myMethod();
      private void myMethod() {
         System.out.println("hello");
   When you compile/run this program the result is:
   a. Outputs "hello" to the console
   b. Compiler error
   c. Runtime exception
4. class MyClass {
      public static void main(String[] args) {
         AnotherClass a = new AnotherClass(new MyClass());
      private void myMethod() {
```

```
System.out.println("hello");
      }
   }
   class AnotherClass {
     AnotherClass(MyClass m) {
        m.myMethod();
   }
   When you compile/run this program the result is:
   a. Outputs "hello" to the console
   b. Compiler error
   c. Runtime exception
5. class MyClass {
     public static void main(String[] args) {
        AnotherClass a = new AnotherClass(new MyClass());
     private void myMethod() {
        System.out.println("hello");
   }
   class AnotherClass {
     AnotherClass(MyClass m) {
        myMethod();
      }
   When you compile/run this program the result is:
   a. Outputs "hello" to the console
   b. Compiler error
   c. Runtime exception
6. class MyClass {
     public static void main(String[] args) {
        AnotherClass a = new AnotherClass(new MyClass());
        a.anotherMethod();
     void myMethod() {
        System.out.println("hello");
      }
   }
   class AnotherClass {
     MyClass m;
     AnotherClass(MyClass m) {
```

```
this.m = m;
anotherMethod();
}
void anotherMethod() {
  m.myMethod();
}
```

When you compile/run this program the result is:

- a. Outputs "hello" to the console
- b. Outputs "hello" twice to the console
- c. Compiler error
- d. Runtime exception

```
7. class MyClass {
     public static void main(String[] args) {
        AnotherClass a = new AnotherClass(new MyClass());
        a.anotherMethod();
     void myMethod() {
        System.out.println("hello");
        a.anotherMethod();
     }
  }
  class AnotherClass {
     MyClass m;
     AnotherClass(MyClass m) {
        this.m = m;
     void anotherMethod() {
        System.out.println("hello");
        m.myMethod();
     }
```

When you compile/run this program the result is:

- a. Continuously outputs "hello" to the console
- b. Compiler error
- c. Runtime exception

```
class MyClass2 {
  AnotherClass a;
  public static void main(String[] args) {
     int n = 0;
     if(args[0] != null) {
        n = Integer.parseInt(args[0]);
     MyClass2 m = new MyClass2();
     m.a = new AnotherClass(m);
     m.a.anotherMethod(n);
  void myMethod(int k) {
     if(k == 0 \mid \mid k == 1) {
        System.out.println("hello");
        return;
     a.anotherMethod(--k);
   }
}
class AnotherClass {
  MyClass2 m;
  AnotherClass(MyClass2 m) {
     this.m = m;
  void anotherMethod(int k) {
     m.myMethod(--k);
}
```

When you run this program like this:

java MyClass2 n

8.

where n is any positive integer, the result is:

- a. Outputs "hello" to the console
- b. Stack overflow exception
- c. Code will not compile because of a "cyclic reference"
- 9. When the main method below is run (to the right), what happens?
 - a. "Times through the loop: 0" is printed to the console
 - b. "Times through the loop:1" is printed to the console.
 - c. "Times through the loop: n" is printed to the console for some n > 1.
 - d. The while loop does not terminate.

```
public class Test {
    public static void main(String[] args) {
        Test t = new Test();
        t.run();
    }
    public void run() {
        int loopcount = 0;
        double scalar = 0.1;
        double x = 0.9;
        double y = 0.7;
        while (x - scalar != y + scalar) {
            x *= scalar;
            y *= scalar;
            scalar *= scalar;
            ++loopcount;
        }
        System.out.println("Times through the loop: "
            + loopcount);
    }
}
```