

## FPP Quiz 2/16/2021

```
1. 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

```
2. 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

3. Suppose MyClass and AnotherClass are in the same package.

```
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

```

4. class MyClass extends MySuperClass {
    public static void main(String[] args) {
        MySuperClass cl = new MyClass();
        System.out.println(cl.getType());
    }

    public int getType() {
        return 3;
    }
}

class MySuperClass {
    public int getType() {
        return 2;
    }
}

```

What happens when the program is compiled/run?

- a. Compiler error
- b. Runtime error
- c. Outputs 2 to the console
- d. Outputs 3 to the console

```

5. class MyClass extends MySuperClass {
    public static void main(String[] args) {
        MySuperClass cl = new MySuperClass();
        System.out.println(cl.getType());
    }

    public int getType() {
        return 3;
    }
}

class MySuperClass {
    public int getType() {
        MyClass cl = new MyClass();
        cl.getType();
    }
}

```

```

        return 2;
    }
}

```

What happens when the program is compiled/run?

- Compiler error
- Runtime error
- Outputs 2 to the console
- Outputs 3 to the console

```

6. class TheClass {
    TheClass() {
        TheSubclass sub = new TheSubclass();
        System.out.println("The Class constructor");
    }
    public static void main(String[] args) {
        new TheSubclass();
    }
}
class TheSubclass extends TheClass {
    TheSubclass() {
        System.out.println("The Subclass constructor");
    }
}

```

What happens when the program is compiled/run?

- Compiler error
- Outputs "The Subclass constructor" followed by "The Class constructor".
- Outputs "The Class constructor" followed by "The Subclass constructor".
- An Exception occurred

7. What is the state of e1 and e2 after the constructor of Test exits?

<pre> public class Test {     Employee e1 = new Employee("mike", 5000);     Employee e2 = new Employee("joe", 8000);     void modify(Employee x, Employee y) {         x.setName(y.getName());     }     public static void main(String[] args) {         new Test();     }     Test(){         modify(e1,e2);     } } </pre>	<pre> public class Employee {     private String name;     private double salary;      public Employee(String name, double salary){         this.name = name;         this.salary = salary;     }     //getters and setters not shown here... } </pre>
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