

## MPP Midterm Practice Problems

1. What happens when the program is compiled/run?

```
class MyClass {  
    static int amount = 1;  
    public static void main(String[] args) {  
        System.out.println(this.amount);  
    }  
}
```

- a. Compiler error
- b. Runtime error
- c. Outputs 1 to the console
- d. Outputs 0 to the console

2. What happens when the program is compiled/run?

```
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;  
    }  
}
```

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

3. What happens when the following program is run?

```
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() {
        return 2;
    }
}
```

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

4. What happens when the following program is run?

```
public class Sub extends Super {
    public static void main(String[] args) {
        Sub.print();
    }
}
```

```
public class Super {
    static void print() {
        System.out.println("hello");
    }
}
```

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

5. What happens when the following program is run?

```
public class Sub extends Super {  
    public static void main(String[] args) {  
        Super s = new Sub();  
        s.print();  
    }  
    public static void print() {  
        System.out.println("bye");  
    }  
}
```

```
public class Super {  
    static void print() {  
        System.out.println("hello");  
    }  
}
```

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