**Quiz 5**                                        **Name:_____**

1. Which of the following is/are valid?

| Code | Validity |
|---|---|
| <pre>try {<br>    code<br>}</pre> | ~~VALID~~ / INVALID |
| <pre>try {<br>  // code<br>} finally {<br>  // clean up<br>}</pre> | VALID / ~~INVALID~~ |
| <pre>try {<br>  // code<br>} catch (ArithmeticException e) {<br>  // handle error<br>} catch (NullPointerException e) {<br>  // handle error<br>}</pre> | VALID / ~~INVALID~~ |
| <pre>try {<br>  // code<br>} finally {<br>  // clean up<br>} catch (NullPointerException e) {<br>  // handle error<br>}</pre> | ~~VALID~~ / INVALID |
| <pre>try {<br>  // code<br>} catch (RuntimeException e) {<br>  // handle error<br>} catch (NullPointerException e) {<br>  // handle error<br>}</pre> | ~~VALID~~ / INVALID |

2. Given the following classes:

```java
public class Car {

    public void sayHello() {
        System.out.println("hello");
    }
}
```

```java
public class SmartCar extends Car {

    public void sayHello() {
        System.out.println("hello smarty");
    }

    public void sayBye() {
        System.out.println("bye smarty");
    }
}
```

| Code | Compile (Yes \| No) | Output |
|---|---|---|
| `Car c = new SmartCar();`<br>`c.sayBye();` | No | |
| `SmartCar c = new Car();`<br>`c.sayHello();` | No | |
| `Car c = new SmartCar();`<br>`c = (SmartCar) c;`<br>`c.sayBye();` | No | |
| `Car c = new SmartCar();`<br>`c.sayHello();` | Yes | hello smarty |
| `Car c = new SmartCar();`<br>`if (c instanceof SmartCar) {`<br>`    c.sayBye();`<br>`}` | No | |