

Practice Quiz on Exceptions

In each of the following examples of Exception handling, write the output that results from the main method getting called in the class `FinallyTest`.

1. Nothing in try block:

```
class FinallyTest {
    public static void test() throws Exception {
        try {
        }
        catch (Exception x) {
            System.out.println(x.getMessage());
            throw new Exception("second");
        }
        finally {
            System.out.println("finally!");
        }
        System.out.println("last statement");
    }
}

public static void main(String[] args){
    try{
        test();
    }
    catch(Exception x){
        System.out.println(x.getMessage());
    }
}
```

2. Return in try block:

```
class FinallyTest {
    public static void test() throws Exception {
        try {
            return;
        }
        catch (Exception x){
            System.out.println(x.getMessage());
            throw new Exception("second");
        }
        finally {
            System.out.println("finally!");
        }
    }
}
```

```

        public static void main(String[] args){
            try{
                test();
            }
            catch(Exception x){
                System.out.println(x.getMessage());
            }
        }
    }
}

```

3. System.exit in try block:

```

class FinallyTest {
    public static void test() throws Exception {
        try {
            System.exit(0);
        }
        catch (Exception x){
            System.out.println(x.getMessage());
            throw new Exception("second");
        }
        finally {
            System.out.println("finally!");
        }
        System.out.println("last statement");
    }
}

    public static void main(String[] args){
        try{
            test();
        }
        catch(Exception x){
            System.out.println(x.getMessage());
        }
    }
}

```

4. throw new Exception in try block:

```

class FinallyTest {
    public static void test() throws Exception {
        try {
            throw new Exception("first");
        }
        catch (Exception x){
            System.out.println(x.getMessage());
        }
    }
}

```

```

        finally {
            System.out.println("finally!");
        }
    }

    public static void main(String[] args){
        try{
            test();
        }
        catch(Exception x){
            System.out.println(x.getMessage());
        }
    }
}

```

5. throw new Exception in try block and printout last statement:

```

class FinallyTest {
    public static void test() throws Exception {
        try {
            throw new Exception("first");
        }
        catch (Exception x){
            System.out.println(x.getMessage());
        }
        finally {
            System.out.println("finally!");
        }
        System.out.println("last statement");
    }
}

public static void main(String[] args){
    try{
        test();
    }
    catch(Exception x){
        System.out.println(x.getMessage());
    }
}
}

```