# Quiz 2

1.

## Which of the following statements is FALSE in relation to generics?

- A generic class used without type arguments is known as a raw type
   You cannot instantiate an array of a generic type using new operator e.g., T[] anArray = new T[100]
   Consider the following method, someMethod(Box<Number> n) { /\*.... \*/}, this method can take in a Box<Integer> or Box<Double>
- 2. Consider the following code:

```
public interface xyz {
  void abc() throws IOException;
}
public interface pqr {
  void abc() throws FileNotFoundException;
}
public class Implementation implements xyz, pqr {
  // insert code
  { /*implementation*/ }
}
```

## Which of the following statement(s) can you insert in place of "// insert code" comment?

	public void abc() throws FileNotFoundException, IOException
	public void abc() throws IOException
0	public void abc() throws FileNotFoundException

3.

### A design pattern used to enhance a component's functionality dynamically at run-time is:

0	Composite Pattern

0	Decorator Pattern
0	Abstract Factory Pattern
	Observer Pattern

#### 4.

- Which Design Pattern should you use when....
  - there is a language to interpret, and you can represent statements in the language as abstract syntax trees.

0	Singleton
	State
	Composite
	Factory

# 5. Identify the pattern used in this code:

0	Strategy
	State
	Factory
	Decorator

#### 6

Which of the following exceptions must be handled by a try-catch block or declared?

0	NullPointerException
	MalformedURLException
0	ClassCastException
	ArithmeticException

# 7. Which of the following statements is NOT true?

0	The Builder Pattern is a violation of the law of demeter
0	Decorators provide a flexible alternative to inheritance for extending functionality.
0	The observer pattern provides a design where subjects and observers are loosely coupled
0	The Factory Method Design Pattern uses inheritance to solve the problem of creating objects without specifying their exact object classes

✓ Submit