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?

0	public void abc() throws FileNotFoundException, IOException
0	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

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