

- 1) What's wrong with the following code?

```
public class CloneTest implements Cloneable {
    public CloneTest() {

    }
    public static void main (String[] args) {
        CloneTest c = new CloneTest();
        CloneTest d = c.clone();
    }
}
```

- 2) What's wrong with the following code?

```
public class CloneTest implements Cloneable {
    public CloneTest() {

    }
    public static void main (String[] args) {
        CloneTest c = new CloneTest();
        CloneTest d = (CloneTest) c.clone();
    }
}
```

- 3) What is printed in the following code?

```
public class CloneTest implements Cloneable {
    String s = "Alice";
    public CloneTest() { }
    public static void main (String[] args) {
        CloneTest c = new CloneTest();
        try {
            CloneTest d = (CloneTest) c.clone();
            System.out.println(c.s == d.s);
        } catch (CloneNotSupportedException e) {
            e.printStackTrace();
        }
    }
}
```

4) What happens when this code runs?

```
public class CloneTest implements Cloneable {
    String s = "Alice";
    public CloneTest() { }
    public Object clone() throws CloneNotSupportedException {
        CloneTest newObj = (CloneTest) this.clone();
        newObj.s = this.s + "";
        return newObj;
    }
    public static void main (String[] args) {
        CloneTest c = new CloneTest();
        try {
            CloneTest d = (CloneTest) c.clone();
            System.out.println(c.s == d.s);
        } catch (CloneNotSupportedException e) {
            e.printStackTrace();
        }
    }
}
```

5) What is printed here?

```
public class CloneTest implements Cloneable {
    String s = "Alice";
    public CloneTest() { }
    public Object clone() throws CloneNotSupportedException {
        CloneTest newObj = new CloneTest();
        newObj.s = this.s + "";
        return newObj;
    }
    public static void main (String[] args) {
        CloneTest c = new CloneTest();
        try {
            CloneTest d = (CloneTest) c.clone();
            System.out.println(c.s == d.s);
        } catch (CloneNotSupportedException e) {
            e.printStackTrace();
        }
    }
}
```