Exceptions Practice Page 1

Exception Examples

Complete this table. In the "Checked?" column, identify each exception as "checked" or "unchecked". Look at the Java API docs for help.

Checked Exception - an exception that you are required to handle. Java requires you to use "try - catch" around the code or write "throws xxxException" on method.

Unchecked Exception - an exception that you are not required to handle.

Exception	Checked?	Example
NullPointerException	unchecked	
ClassCastException		
ArrayIndexOutOfBounds Exception		
		<pre>List<string> list = new ArrayList<>(); list.add("foo"); String foo = list.get(2);</string></pre>
NumberFormatException		
		<pre>Scanner scanner = new Scanner("four"); int n = scanner.nextInt();</pre>
		<pre>Scanner scanner = new Scanner("four"); String a = scanner.next(); String b = scanner.next();</pre>
		<pre>FileReader fr = new FileReader(</pre>
		<pre>// create String for money value double value = 10.0; String s = String.format("%d Baht", value);</pre>
		<pre>// What exception should be thrown? Purse purse = new Purse(-1); // or here: purse.insert(new Coin(-1,"Baht"));</pre>

Exceptions Practice Page 2

2. Find all possible exceptions in this equals method.

At each line of the equals method, what exception could be thrown and what is the cause of exception?

```
Scanner console = new Scanner(System.in);
System.out.print("Do you want homework? ");
String reply = console.next();
if (reply == "yes") System.out.println("Read all of 'Big Java'");
else if (reply == "no") System.out.println("lazy!");
else System.out.println("Invalid reply.");
```

3. When we run the program the student types "yes":

Do you want homework? yes

What does the program print next? Why?