

1. Given the following code which specific types of Exception might be thrown? Write whether each is *checked* or *unchecked*. Hint: the method signature for `parseInt()` is:

```
public static void parseInt(String s) throws NumberFormatException
```

```
class Divide {  
    public static void main(String [] args) {  
        int dividend = Integer.parseInt(args[0]);  
        int divisor = Integer.parseInt(args[1]);  
        int quotient = dividend / divisor;  
        System.out.println(quotient);  
    }  
}
```

`NumberFormatException` – *unchecked*
`ArrayIndexOutOfBoundsException` – *unchecked*
`ArithmeticException` – *unchecked*

2. Write whether each of the following is *checked* or *unchecked*.

<code>Throwable</code>	?	checked
<code>Exception</code>	?	checked
<code>RuntimeException</code>	?	unchecked
<code>Error</code>	?	unchecked

3. Consider the following class.

```
01 class Thing {
02     void bar() throws Exception {
03         throw new Exception();
04     }
05
06     void foo() throws Exception {
07         bar();
08     }
09
10     public static void main(String [] args) throws Exception {
11         Thing thing = new Thing();
12
13         try{
14             thing.foo();
15             throw new IOException();
16         } catch(RuntimeException rte) {
17             throw rte;
18         } catch(IOException ioe) {
19             throw ioe;
20         }
21     }
22 }
```

What kind of Exception is thrown out of main()?

A generic exception, namely: `Exception`.

What does the stack trace look like? (just give a method name and a line number for that method where the `Exception` is thrown).

```
Exception in thread "main" java.lang.Exception
  at Thing.bar(Thing.java:5)
  at Thing.foo(Thing.java:9)
  at Thing.main(Thing.java:16)
```