
CS 249: Assignment 7

Exception Handling and Text I/O

Theory Questions (14%)

1. (2%) Write the line of Java code to throw a new `ArithmeticException` with the message "Division by zero".

```
throw new ArithmeticException("Division by zero");
```

2. (2%) Given the code below, what will print out?

```
try {  
    throw new ArithmeticException();  
}  
catch(RuntimeException ex) {  
    System.out.println("RUNTIME");  
}  
catch(Exception ex) {  
    System.out.println("EXCEPTION");  
}
```

RUNTIME

3. (2%) Given the code below, what will print out?

```
try {  
    throw new IOException();  
}  
catch(RuntimeException ex) {  
    System.out.println("RUNTIME");  
}  
catch(Exception ex) {  
    System.out.println("EXCEPTION");  
}
```

EXCEPTION

4. (2%) If an exception is an **unchecked** exception, what classes does it inherit from?

Exception Class

5. (2%) Write a method named "myMethod" that takes no parameters, is public, returns nothing, and **declares an IOException**. The body of this method should be empty. You also do NOT need to define the containing class.

```
public void myMethod() {
    IOException ex = new IOException();
}
```

6. (2%) Given the code below, what will print out? EXCEPTION
HOW ARE YOU?

```
try {
    System.out.println("HI");
    return;
}
catch(RuntimeException ex) {
    System.out.println("RUNTIME");
}
catch(Exception ex) {
    System.out.println("EXCEPTION");
}
finally {
    System.out.println("HOW ARE YOU?");
}
```

7. (2%) Creating an instance of a File class will create the corresponding file.

(a) True

(b) False

(b) False