

## The Java™ Tutorials

**Trail:** Essential Classes

**Lesson:** Exceptions

*The Java Tutorials have been written for JDK 8. Examples and practices described in this page don't take advantage of improvements introduced in later releases.*

## Questions and Exercises

### Questions

1. Is the following code legal?

```
try {  
  
} finally {  
  
}
```

2. What exception types can be caught by the following handler?

```
catch (Exception e) {  
  
}
```

What is wrong with using this type of exception handler?

3. Is there anything wrong with the following exception handler as written? Will this code compile?

```
try {  
  
} catch (Exception e) {  
  
} catch (ArithmeticException a) {  
  
}
```

4. Match each situation in the first list with an item in the second list.

- a. `int[] A;`  
`A[0] = 0;`
  - b. The JVM starts running your program, but the JVM can't find the Java platform classes. (The Java platform classes reside in `classes.zip` or `rt.jar`.)
  - c. A program is reading a stream and reaches the end of stream marker.
  - d. Before closing the stream and after reaching the end of stream marker, a program tries to read the stream again.
- 1. `__error`
  - 2. `__checked exception`
  - 3. `__compile error`
  - 4. `__no exception`

### Exercises

1. Add a `readList` method to `ListOfNumbers.java`. This method should read in `int` values from a file, print each value, and append them to the end of the vector. You should catch all appropriate errors. You will also need a text file containing numbers to read in.
2. Modify the following `cat` method so that it will compile.

```
public static void cat(File file) {  
    RandomAccessFile input = null;  
    String line = null;  
  
    try {  
        input = new RandomAccessFile(file, "r");  
        while ((line = input.readLine()) != null) {  
            System.out.println(line);  
        }  
    }  
    return;
```

```
        } finally {  
            if (input != null) {  
                input.close();  
            }  
        }  
    }  
}
```

[Check your answers.](#)

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