Questions and Exercises: Exceptions

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 Java VM starts running your program, but the VM 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 named) {
    RandomAccessFile input = null;
    String line = null;
```

```
        try {
            input = new RandomAccessFile(named, "r");
            while ((line = input.readLine()) != null) {
                System.out.println(line);
            }
            return;
        } finally {
            if (input != null) {
                input.close();
            }
        }
    }
```

Check your answers.



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