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1 R7.1

If you try to open an file for reading that doesn't exist a `FileNotFoundException` will be thrown. If you try to open an file for writing that doesn't exist a new file length of 0 will be made.

2 R7.2

If you try to open read only file an exception will be thrown.

3 R7.7

A checked exception is an exception that is checked for at compile time. An example of this would be an `IOException`. An unchecked exception is an exception that is not checked at compile time. An example of this would be `ArithmeticException`.

4 R7.10

If there is no matching catch clause at a higher level, then the program will end showing stack trace of the exception. If its at a lower level it pushes there error up a stack frame

5 R7.12

The exception object is always the same as the type declared in the catch clause.

6 E7.4

```
1 import java.io.*;
2 import java.util.Scanner;
3 import java.util.*;
4 public class lineNums {
5     public static void main(String args[]) {
6         Scanner userIn = new Scanner(System.in);
7         System.out.print("Enter input file name\n>");
8         String path = userIn.nextLine();
9         try {
10             File fileIn = new File(path);
11             Scanner scnr = new Scanner(fileIn);
12             System.out.print("Enter output file name\n>");
13             String fileOut = userIn.nextLine();
14             File fileOutPath = new File(fileOut);
```

```

15         userIn.close();
16         PrintWriter out = new PrintWriter(fileOutPath);
17         int lineNumber = 1;
18         while (scnr.hasNextLine()) {
19             String line = scnr.nextLine();
20             out.println("\\* " + lineNumber + " *\\ " + line);
21             lineNumber++;
22
23         }
24         out.close();
25         scnr.close();
26     } catch (FileNotFoundException e) {
27         System.out.print("File not found");
28     }
29
30 }
31
32 }

```