

CSE 8B
Winter 2006
Quiz #4

Name _____ ID _____

```
import java.io.*;
import java.util.*;

class A {
    public static void main(String[] args) {
        Scanner scan = null;
        PrintWriter p = null;
        try {
            scan = new Scanner(new FileInputStream("bar"));
            p = new PrintWriter(new FileOutputStream("foo"));
        } catch (FileNotFoundException e) {
            System.err.println("error opening: " +
                               e.getMessage());
            System.exit(1);
        }
        while (scan.hasNextLine()) {
            scan.nextLine();
            if (scan.hasNextLine())
                p.println(scan.nextLine());
        }
        scan.close();
        p.close();
    }
}
```

(12 pts.) 1. Given the above program and the following contents of the file "foo":

```
This
is
a
test of
the emergency
broadcast system.
Not a real test.
```

What is the contents of the file "bar" after executing `java A`?
**is
test of
broadcast system.**

The program skips every other line (it calls `scan.nextLine()`, throwing away the result,

and then calls `scan.nextLine` again, printing the result). Note that it starts by throwing away the first line.

(12 pts.) 2. Given the above program, which of the following would cause the catch block to execute (circle all correct answers).

- (a) The file "foo" does not exist. **True.** A *FileInputStream* will throw an exception if the file doesn't exist, because it can't open it.
- (b) The file "bar" does not exist. **False.** A *FileOutputStream* will create the file if the file doesn't exist.
- (c) The program doesn't have permission to read from file "foo". **True.** A *FileInputStream* needs to be able to read from the file.
- (d) The program doesn't have permission to write into file "foo". **False.** A *FileInputStream* doesn't need to be able to write to the file.
- (e) The program doesn't have permission to read from file "bar". **False.** A *FileOutputStream* doesn't need to be able to read from the file.
- (f) The program doesn't have permission to write into file "bar". **True.** A *FileOutputStream* needs to be able to write to the file.