



Peer Instruction #8: File Input and Output



File Input

Which line of code creates a Scanner to read a file named by the String variable inputFile?

- A. `Scanner in = new Scanner(inputFile);`
- B. `Scanner in = new Scanner("inputFile");`
- C. `Scanner in = new Scanner (System.in);`
- D. `Scanner in = new Scanner(new File(inputFile));`
- E. `Scanner in = new Scanner(new File("inputFile"));`



File Input

Given the file contents in red, which values are read to d0/d1/d2? Assume *in* is a Scanner.

1.2 27 2.4 33 3.6 17

double d0 = in.nextDouble();

double d1 = in.nextDouble();

double d2 = in.nextDouble();

A. 1.2, 2.4, 3.6

B. 1, 27, 2

C. 1.2, 27.0, 2.4

D. 1.2, exception!



File Output

Which line of code creates a `PrintWriter` to write a file named by the `String` literal “input”?

- A. `PrintWriter out = new PrintWriter (input);`
- B. `PrintWriter out = new PrintWriter (“input”);`
- C. `PrintWriter out = new PrintWriter (System.out);`
- D. `PrintWriter out = new PrintWriter (new File(input));`
- E. `PrintWriter out = new PrintWriter (new File(“input”));`



File Output

Given the code shown, how many lines are in the output file? Assume *out* is a `PrintWriter`.

```
out.print("123\thello\n");
```

```
out.println("there\t&&\n");
```

```
out.println("\n\ngoodbye");
```

A. 1 line

B. 3 lines

C. 4 lines

D. 5 lines

E. 6 lines



Exception Handling

Which definition of checked or unchecked exception is correct?

- A. Unchecked: the program must catch/throw the exception.
- B. Unchecked: the program cannot catch/throw the exception.
- C. Checked: the program must catch/throw the exception.
- D. Checked: the program cannot catch/throw the exception.
- E. None of the above



try/catch Statement

Which of the following lines are incorrect in the code shown below?

```
1 File in = new File("input");
2 try {
3     Scanner s = new Scanner(input);
4     while (s.hasNextLine())
5         System.out.println(s.next());
6 } catch (IOException) {
7     s.close();
8 }
```

A. Line 3
B. Line 4 and 5
C. Line 6
D. Line 7
E. What a mess!