

CS10, 09S, UCSB

H13: (Based on Horstman, Chapter 11, I/O and Exceptions) Total Points: 50 ([printable PDF](#))

Accepted: on paper, in lecture (1-1:50pm) on Wednesday, May 13th only.
No email submission allowed.

Name: (2 pts) _____ UCSBNetID (2 pts) _____

Section (6 pts) Circle one: Thu 4pm Fri 10am Fri 11am Fri noon

1. (10 pts) The standard way to write "Hello, World" to the screen is:

```
System.out.println("Hello, World!");
```

Let's take it to the next level. In the class below, after the `Hello, World` line, add three lines of code that will result in the message "Hello, Hard Drive!" being written into a file called "message.txt" in the current directory. Also note that you'll have to add something after the closing `)` and before the opening `{` of the main method—I've left extra room for you to do that.

```
/**
 * Standard example
 */
public class HelloWorld
{
    public static void main(String[] args)

    {
        System.out.println("Hello, World!");

    }

}
```

Please turn over for more problems

2. (10 pts) Read Section 11.2 and then answer this question:

Add some code to this constructor for a `QuadraticEqn` class so that you can be sure there will never be a `QuadraticEqn` object constructed where `a` is set to zero—instead, an appropriate exception should be thrown that indicates that the caller of the method made a bad choice for the argument of the function.

```
public QuadraticEqn(double a, double b, double c)
{

    this.a = a;
    this.b = b;
    this.c = c;
}
```

3. Read Sections 11.2, 11.3 and 11.4 before answering this question.

Section 11.2 starts by saying that two main aspects of error handling are "reporting and recovery".

- a. (5 pts) What java keyword has to do error reporting, specifically?
- b. (5 pts) What pair of java keywords (used together) have to do with error recovery, specifically?

4. (5 pts) What is the difference between a checked exception, and an unchecked exception?

5. (5 pts) How do you define a new type of exception?

End of H13