

## Mastery Guessing Game Error Log

Credit Name: CSE2140 2nd Language Programming

Assignment Name: Mastery Guessing Game

Describe the errors you've encountered while working on this assignment. What caused the error and how do you overcome the error?

### Error 1:

The error I ran into related to the user's input in my while loop. Originally I had copied some code from another assignment for prompting the user and taking their input, however this didn't work for the way I set up the while loop.

```
int randomnum = (int)(20 * Math.random() + 1);
System.out.println("Enter a number between 1 and 20: ");

int answer = input.nextInt();

// Loop until the user guesses the correct number
while (answer != randomnum) {
    answer = input.nextInt(); // write how you had this out
```

As you can see the variable was set to the user's input before going into the loop, but since my loop ran if the variable answer was not equal to the random number, if the user's first guess was correct then the program wouldn't run the loop and no output statement would happen as seen below.

```
Enter a number between 1 and 20: 20
20
```

To fix this I made the answer variable outside the loop equal to 0 since that wasn't within the random number generator's range, and then when the loop began I made answer equal to the user's input, because in the while loop is where it checks if the two numbers are the same.

```
int answer = 0; // Initialize

// Loop until the user guesses
while (answer != randomnum) {
    answer = input.nextInt();
```