

Name:
Person #:

CSE115 – Quiz

Date:
Recitation:

```
package quiz;
public class Grader {
    public Grader() {}
    public int averageGrade(int x, int y, int z){ return (x+y+z)/3;}
    public String letterGrade(int grade){
        if (grade > 90){
            return "A";
        } else if (grade <= 79){
            return "B";
        } else if (grade > 69){
            return "D";
        } else {
            return "F";
        }
    }
}
```

1. Using the code provided, declare a variable of type Grader. Create a new object of type Grader and assign its reference to a variable of type Grader. Then, call the method averageGrade and pass it the three integers, 80, 90, and 100, as arguments.
2. The letterGrade method is supposed to work as follows. The String "A" should be returned if grade is 90 or higher. The String "B" should be returned if it is less than 90 and greater than or equal to 80. "C" should be returned if it is less than 80 and greater than or equal to 70. "F" should be returned for any other value.

It turns out the method doesn't work quite right. The following shows inputs with their corresponding expected answers, as well as the answer actually returned:

For a grade value of 100, expecting an A. Grader returned: A
For a grade value of 90, expecting an A. Grader returned: D
For a grade value of 81, expecting an B. Grader returned: D
For a grade value of 80, expecting an B. Grader returned: D
For a grade value of 79, expecting an C. Grader returned: D
For a grade value of 70, expecting an C. Grader returned: B
For a grade value of 69, expecting an F. Grader returned: B

Circle the three mistakes in the code for the method letterGrade.

3. Define a boolean method for the Grader class that will be used by other classes named isPassing with an integer parameter named grade such that if the grade given is greater than 69 return true, otherwise false.