

Pseudo-code for Program 2

```
/** Be sure to add Javadoc entries
 *
 * Every method should have an @param and an @return
 * Javadoc comments MUST precede every method in Java
 */
// Could put the following logic in a getInputs static method in class Main. But for now, let's keep this
inline.
```

```
Prompt for user's name (first and last). // two separate prompts, one for first name one for last.
Read in string values for firstName and lastName.
```

```
Set count to 0
```

```
Prompt for user's classification as an integer ranging from 1 to 5 (fresh to grad student)
```

```
Loop while (count < 3)
```

```
    If classification not equal 1 through 5
```

```
        Increment count
```

```
    Else
```

```
        If classification = 1
```

```
            Set classification to Freshman
```

```
        Else if classification is a 2
```

```
            Set classification to Sophomore
```

```
        Etc.
```

```
        Break (leave while loop)
```

```
    End if
```

```
    If count < 3
```

```
        Prompt user with same message
```

```
        Read in user's value for classification
```

```
    Else
```

```
        Display Sorry, Charlie. Get a life!
```

```
        Break
```

```
        // go to end program (TBD)
```

```
    Endif
```

```
EndLoop
```

```
// here we will call a method in Main.
```

```
Set integerCount to 1
```

```
Loop while integerCount < 3
```

```
    Prompt user to input three integers
```

```
    Read in three integers and assign them to int1, int2, and int3.
```

```
    Set char Result = Call average (pass int1, int2, int3 and integerCount)
```

```
        // average will compute the average in one of three ways depending on integerCount.
```

```
        // letter grade is returned as a character
```

```
    If integerCount is 1, set char gradeOut1 to Result
```

```
    If integerCount is 2, set char gradeOut2 to Result
```

```
    If integerCount is 3, set char gradeOut3 to Result
```

```
    Increment integerCount
```

```
endLoop
```

```
// when get to here, we have the three letter grades, gradeOut 1, 2, and 3
```

```
// we also have a valid classification and name
```

```
// Output display routine
```

```

Skip a couple of blank lines
Set int integerCounter to 0
Loop while integerCounter <3
    If integerCount is 1, Print out Last Name and First Name and his/her classification followed by
    "earned a" gradeOut1 "computed using an if...else statement"

    If integerCount is 2, Print out Last Name and First Name and his/her classification followed by
    "earned a" gradeOut2 "computed using a nested-if construct")

    If integerCount is 3, Print out Last Name and First Name and his/her classification followed by
    "earned a" gradeOut 3 "computed using a Switch construct")

    Increment integerCounter
End Loop
// Check out counter values to ensure we don't try to loop one more time than necessary.....

Print out "That's all folks!"           // ensure apostrophe prints out
Terminate program

```

```

//Method to average three integers: This is a second method in public class Main that will physically
// follow the public static void main method.

```

```

/** Be sure to add Javadoc entries
 *
 * Every method should have an @param and an @return
 * Javadoc comments MUST precede every method in Java
 */
public static char average (inta, intb, intc, icount)
set sum and average to 0.
Add inta, intb, intc giving sum
Divide sum by 3 giving average.
If icount is 1
    Calculate letterGrade using simple if statements
If icount is 2
    Calculate letterGrade using nested if statements
If icount is 3
    Calculate letterGrade using a Switch statement
return the letterGrade as a char
// End average routine

```
