CS31 Project1 Report:

For step5, the input that causes nonsensical results are 100, 40, 120. Since the input number 120, students prefer the semester system, is bigger than 100, the total amount of students being surveyed, the percentage of students preferring semester system is over 100%, which is unreasonable.

In the logic\_error.cpp, the error introduced is changing “100.0 \* preferSemester / numberSurveyed;” into “100.0 \* preferQuarter / numberSurveyed;”

Then the first input is 100, the second is 40, and the third is 60. Although, the result we want should be “**40.0% prefer the quarter system.**

**60.0% prefer the semester system.**

**More students prefer the semester system to the quarter system.**

**Program ended with exit code: 0”** However, since I messed with the code and replaced preferSemester into preferQuarter, the actual result was “ **How many students were surveyed?** 100

**How many of them prefer the quarter system?** 40

**How many of them prefer the semester system?** 60

**40.0% prefer the quarter system.**

**40.0% prefer the semester system.**

**More students prefer the semester system to the quarter system.**

**Program ended with exit code: 0** “

In the compile\_error.cpp, I removed one semicolon from the end of line 27: "% prefer the quarter system." << endl , and the compiler reported that : “ Expected ‘;’ after expression. This error was displayed since each line of code should end with a semicolon.

The second error I made is delete the ‘int’ before line10: “preferQuarter”. The compiler was reporting : “Use of undeclared identifier 'preferQuarter'”. Since preferQuarter should be a number and it should be defined before called, the compiler couldn’t recognize its type, and an error occurred.