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Smallberg

Lecture 2

CS 31: Project 1 Report

For step 4’s original.cpp:

I built the program successfully. I input 100, 33, and 67. No error messages were reported. The final outputs were:

“33.0% say they will keep their car.

67.0% say they will demand a refund.

More people will demand a refund than keep their car.” Such outputs were expected percentages and directly corresponded to the inputs. I also input 200, 66, and 134 with similar results. I also input 97, 81, and 16 with similar results.

For step 5’s original.cpp:

I built the program successfully. I input -85, 7, 99. No error messages were reported. The final outputs were:

“-8.2% say they will keep their car.

-116.5% say they will demand a refund.

More people will demand a refund than keep their car.” I input a negative value for numberSurveyed, so the outputs were negative and illogical. I also input -2, -28, and -1 which resulted in 1400.0% and 50.0%, similarly illogical. I also input 40, 2, 42 which resulted in 5.0% and 105.0%. These results are illogical because the percentage surveyed cannot be greater than 100.0% I also input 0, 78, and -80 which resulted in inf% and -inf%. inf (for infinity) indicating undefined results, which makes sense with the division of zero.

For step 6’s logic\_error.cpp:

I switched line 14’s “numKeep” with line 18’s “numRefund” in the main. I input 100, 33, and 67. No error messages were reported. The final outputs were:

“67.0% say they will keep their car.

33.0% say they will demand a refund.

More people will keep their car than demand a refund.” The percentages were switched (in comparison to the original.cpp program). In actuality, more people will demand a refund than keep their car. Such was expected because I gave the intended value of numRefund to numKeep and vice versa.

For step 7’s compile\_error.cpp:

In line 14, I changed “cin” to “in”, a possible typo. The program failed to compile. The processor suggested “Use of undeclared identifier ‘in’” cin is meant to be used as a command, but the processor was unable to identify it without the “c.” Instead, “in” was interpreted as an undeclared variable. Such lead to a failed compilation.

In line 24, I changed “1” to “one”. The program failed to compile. The processor detected the “Use of undeclared identifier one’” I made a type change int to var, which was nonsensical in this case. Such lead to a failed compilation.