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CS31

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Project 1 Write-up

**Step 5**

In step 5, I ran the original program with a few integers that caused the program to give outputs that were nonsensical. For example, I set the numberSurveyed equal to 10, numKeep equal to 5, and numRefund equal to 5. The percentages were correct; however, the statement that follows was incorrect. It should have read something like “The number of people who keep their car is equal to the number of people who demand a refund for their car.” Instead, it said “More people will demand a refund than keep their car,” which does not make sense because 50% = 50%.

I also used a small number for numberSurveyed and larger numbers for numKeep and numRefund. This resulted in an output of nonsensical percentages. You cannot have   
120% of the people surveyed want a refund and 140% of the people surveyed keep their car; percentages must be less than 100% and both percentages must add up to 100% assuming everyone who surveyed responded.

**Step 6**

For the logic error, I changed the pctKeep and pctRefund fraction functions. I wrote that

pctKeep = numKeep / numRefund instead of pctKeep = numKeep / numberSurveyed. This allowed the program to successfully compile; however, the data resulting from the output was nonsensical and just outright incorrect data.

**Step 7**

For the compiler errors, I took out a few semi-colons from a few lines, and I capitalized the “m” in “main.” The compiler gave errors because semi-colons are necessary for telling the computer when to end a line. Also, because C++ is case-sensitive, capitalizing “main” would cause the compiler to give an error. Because these errors occurred, the program did not run.

Some errors that occurred:

syntax error: missing ‘;’ before identifier ‘cin’

expected a ‘;’

expected a statement