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CS 31

Project 1

4.

In step 5, I provided an integer for the total number of people surveyed. For the number of people in support and opposition of impeachment, however, I provided integers that do not sum up to the total number of people surveyed. For example, I inputted 10 for the number of people surveyed, 2 for the number of people in support of impeachment, and 10 for the number of people in opposition of impeachment. The program compiled successfully, but the output does not make sense as it outputted that 20.0% of people are in support of impeachment, and 100.0% of people are in opposition of impeachment. Having 120.0% of surveyed people respond is not a logical output. Additionally, if the same number of people are in support of impeachment as in opposition of impeachment, the output will be that more people oppose impeachment than support it. There can be 5 in support and 5 in opposition of impeachment out of 10 people, yet the output will say that more people oppose impeachment than support it.

For logic\_error.cpp, I changed the conditional, (forImpeachment > antiImpeachment), to (forImpeachment < antiImpeachment). The incorrect result was that when there were less people in support of impeachment than in opposition of impeachment, the output was that there are more people in support of impeachment than in opposition of impeachment. If there were more people in opposition of impeachment or the same number of people in support of impeachment as in support of impeachment, then the incorrect output was that there are more people in support of impeachment.

For compile\_error.cpp, I took out the semicolon after “int numberSurveyed,” and in the conditional “if (forImpeachment > antiImpeachment),” I took out the t at the end of “forImpeachment.” Both these modifications cause the program to fail to compile because every line needs to end with a semicolon, and furthermore, by misspelling the variable “forImpeachment,” the compiler looks for a variable that has not been declared. The g31 compiler showed that even though numberSurveyed was not followed by a semicolon, forImpeachment, which was declared in the following line, was also not properly declared.