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CS31 Project One

**Step 5**

I tried using negative numbers. When I entered one negative number as the answer for how many people were surveyed, the percentages of the number of people supporting and opposing impeachment were negative, which doesn’t make sense because a percentage cannot be negative.

I then tried entering a smaller number into how many people were surveyed and larger numbers into how many of them supported and opposed impeachment. This resulted in percentages over 100%, which is not possible in this context.

I also entered in numbers that did not add up to the total surveyed. As a result the combined percentage of both people who opposed and supported impeachment didn’t add up to 100 as it should have.

**Logic Errors in logic\_error.cpp**

My first logic error was changing the 100.0 in the calculation lines to 100.5.

double pctFor = **100.5** \* forImpeachment / numberSurveyed;

double pctAnti = **100.5** \* antiImpeachment / numberSurveyed;

With this error, if I enter in 20 people were surveyed and say that 10 each supported and opposed impeachment, instead of getting 50% each opposed and supported, I will get 50.2% each supported and opposed impeachment, which is incorrect.

The second logic error that I introduced was changing the greater than sign in the if statement to an equal sign.

if (forImpeachment **==** antiImpeachment)

This meant that the output always became more people oppose impeachment than support it, regardless of what the actual output was meant to be.

**Compiler Errors in compile\_error.cpp**

My first compiler error was removing the semicolon from a line.

double pctFor = 100.0 \* forImpeachment / numberSurveyed

Without semicolons at the end of every line, the program doesn’t compile with the error message “Expected ‘;’ at end of declaration”.

My second compiler error was replacing > with greaterthan.

if (forImpeachment greaterthan antiImpeachment)

The computer doesn’t recognize the words greaterthan so the program gives the error message: “Unknown type name”.