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CS 31

Project 1

Report

In step 5, the input I provided was integers that produced illogical results. For example, I said that 100 people were surveyed and then said that 200 people would have voted for Newsom. This gave Newsom 200% of the vote, which is impossible to get in any real election. Entering negative integers into the original code also caused nonsensical results. The program allowed me to input a negative number into the number of people who voted for Cox, which could never happen in a race.

The logic\_error.cpp file includes many errors that allow the project to run but also cause it to produce incorrect results. The first error I introduced was changing line 33 to print the number of voters who voted for Newsom rather than the percentage of voters who voted for him. This change resulted in a warning that the variable “pctNewsom” was not being used. The next error I added was in the if-else statement at the end of the program. I switched the inequality in the condition of the if statement so that the candidate with the lower percentage of voters would win. This caused the program to display the wrong winner.

The errors I introduced into compile\_error.cpp caused the program to fail. One of these errors was not including the line “using namespace std;”. This line is necessary in this program because I did not include “std::” before every ‘cout’ and ‘cin’ function. Without using the namespace, the computer cannot find these functions. The next error I added was omitting the parentheses from next to the main function. In XCode, this caused an error that said, “Main cannot be declared as a global variable.” Without the parentheses next to main, the computer cannot identify main as a function. The final error I added was omitting a semicolon after declaring a variable. This error produced a parse issue that stated, “Expected ‘;’ after top level declarator.”