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Smallberg CS 31 A

Step 2:

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| --- | --- |
| Input: | Error Explanation: |
| 100 Voters, 50 for Newsom, 50 for Cox | There should be no predicted winner in the election as both have an equal number of votes, however, the program outputs that Cox is expected to win. |
| 100 Voters, 110 for Newsom, 100 for Cox | The program should see that the total number of votes is greater than the total number of voters and output a warning to the user. However, the program does not do this, and outputs that 110% voted for Newsom, and 100% voted for Cox, clearly a nonsense result. |
| 100 Voters, -50 for Newsom, 0 for Cox | The program should see that negative votes are impossible and should thus output a warning to the user. However, it does not, and outputs that -50% will vote for Newsom, once again a nonsense result. |

Step 6:

I removed the times 100 multiplier in lines 34 and 35. The program still compiled and ran, however it outputted incorrect results. When I would enter 100 voting people with 70 for Newsom and 30 for Cox, the program output that 0.0% of people will vote for Newsom and 0.0% will vote for Cox. The correct results would have been 70% and 30%, so clearly this is an incorrect result.

Step 7:

I changed cout << "How many registered voters were surveyed? ";

to cout < "How many registered voters were surveyed? ";

This is a problem that many programmers may make when attempting to output something to a console, as it easy to only use one < rather than two << as it is required. Using only one < will cause compiling to fail.

I also changed double pctNewsom = 100 \* forNewsom / numberSurveyed;

to double pctNewsom = 100 \* forNewsom / numberSurveyed

This is another common mistake: forgetting a semicolon at the end of a line. Doing so will also cause compiling to fail.