**Step 5**

Error 1: Divide by 0

I set the numberSurveyed, forNewsom, and forCox all equal to 0, which caused the output: nan% say they will vote for Newsom. nan% say they will vote for Cox. Cox is predicted to win the election. This is obviously a nonsense answer

Error 2: 50/50 vote

I set the numberSurveyed to 10, and set forNewson and forCox both equal to 5, which caused the output: 50.0% say they will vote for Newsom, 50.0% say they will vote for Cox, Cox is predicted to win the election**.**

This is incorrect because if it is a tie there should be no projected winner.

Error 3: Too many votes

Any number greater than 2147483647 or less than -2147483647 will produce an error because the number is outside the range for an int. This is the output for the number 2147483648:

How many registered voters were surveyed? Program ended with exit code: 02147483648

How many of them say they will vote for Newsom? How many of them say they will vote for Cox? 0% say they will vote for Newsom. -12% say they will vote for Cox. Newsom is predicted to win the election.

Error 4: Votes don’t add up

I set the numberSurveyed to 10, set forNewsom to 3 and forCox to 8, which caused the output:

30% say they will vote for Newsom. 80% say they will vote for Cox. Cox is predicted to win the election. This is incorrect because it simply divide 3/10 and 8/10, while it should check to make sure forCox + forNewsom = numberSurveyed.

Error 5: Negative votes

I set the numberSurveyed to -1, set forNewsom to -1, and forCox to 0, which caused the output

**Logic Error**

For the logic error I changed the pctNewsom and pctCox values from doubles to ints. This would make it so the value always rounds down (like a 58.9 would become a 58) so the percentages would never add up to 100. In addition, I set the condition for Newsom being predicted to win as the percentage totals being equivalent. Therefore, even if Newsom had a higher percentage of winning than Cox, the program would print Cox as the predicted winner.

**Compile Error**  
For the compile error I left of a semicolon off the line “int forCox” which means the attempted declaration does not compile. In addition, the “cin << numberSurveyed;” line includes an error because it should be “cin >> numberSurveyed;”. By facing the comparison operator in the wrong way, a compile error is caused.