| | Description of bug | Location of Bug | Steps to Recreate Bug / Test case | Root cause analysis Notes |
|---|---|---|---|---|
| 1 | Tie handler may have a chance that the tie will end with the parties having the same amount of ties | TieHandler.cpp | Have lots of coin flips to test different probabilities | There is no head-to-head, causing candidates to have the same amount of heads. |
| 2 | Eliminate function is not properly redistributing votes. | IRV.cpp, Eliminate() | Run a vote where a tie occurs in the ballots. | The votes of each candidate are not properly being reseted back to zero, instead added onto its current number of votes. |
| 3 | The redistribution of votes is causing the Majority checker to prematurely pick the winner. | IRV.cpp, MajorityChecker() | When running IRV, the redistribution of votes is giving candidates double votes which counts to having the majority and so it thinks that there is a candidate that has the majority. | The votes of each candidate is being wrongly counted and so it is giving a candidate more votes than they should have. |
| | | | | |