

| Name of Bug | Description of Bug | Location of Bug | Steps to Recreate Bug and/or Test Case # | Root Cause Analysis Notes | Date Bug Logged | Fixed? |
|-----------------|--|--|--|---|-----------------|--------|
| loadfile | Error loading in files | loadFile() definition (line 19) | Attempting to load in a file | It appears that the C++ file I/O needs to be adjusted to properly read in the csv file | 3/14 | yes |
| Set voting type | In initializeVotingSystem, if the user enters an incorrect input the file is set to exit | If-elseif-else tree (line 275) | Select an option that is not 1 or 2 for voting type | The program is currently set to exit after this error, an initial version was to have a while(1) loop that breaks when a correct input is found but this did not seem to work | 3/14 | yes |
| displayResult | The formatting for displaying the results may be formatted | displayResult() definition (line 122) | Run with a file with different length names for candidates | The formatting is hardcoded in and changes in character length may adjust where columns are placed | 3/14 | yes |
| segfault | There is a segfault happening in the transferVote function | transferVote() | Running the program as intended will produce this error | | 3/14 | yes |
| segfault | There is a segfault in DisplayResult function | displayResult() | Running this program as intended will produce this error | | 3/14 | yes |
| Blank data | The loadFile function appears to be loading the file, but the data pulled in by displayResult is | displayResult() | Running this program as intended will produce this error | The Election objects are not being passed through each function correctly | 3/14 | yes |

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|----------------------|---|-----------------|--|--|------|-----|
| | function is blank | | | | | |
| segfault | Winner is out of scope and will not print | displayresult() | Running program as intended | | 3/14 | yes |
| IR unit test | Fails case 5 unit test | IR::unitTest() | ./votesys runtest | Most likely a problem with the ballots list, not storing ballots properly | 3/15 | yes |
| Audit File | We are not producing an audit file at the moment | system | ./votesys | We just didn't have time | 3/15 | yes |
| Memory | A lot of memory that is not deallocated when the program completes | system | valgrind ./votesys | We didn't have time | 3/15 | yes |
| Zero Seats Edge case | If an election is run with 0 seats, floating point exception is thrown and the program terminates | system | ./votecount With the zero seats edge case | We expect this to fail because why would an election be run with zero seats | 3/26 | no |
| IR unit test | Will fail a test because coin toss makes for 5 possible outcomes | IR::unitTest() | ./test from UnitTests folder | We expect this to fail, needs manual inspection to ensure that 2 out of the 5 EXPECT_EQ tests pass | 3/26 | no |