

Voting System 1.0 Buglist

	Description of Bug (be specific About what is not working)	Location of Bug (file, class, method)	Steps to Recreate Bug and/or Test Case #	Root Cause Analysis Notes
1	Media Report should show more verbose statistics such as eliminated candidates	IRElection, OPElection	Run a normal test election	Ran out of implementation time
2	Audit Log might overwrite previous log if two logs are created within a second of each other	AuditLog::AuditLog(...)	Run two duplicate elections within a second of each other	AuditLog does not check for duplicates before creating a new file
3	Occasionally OPLParty_test_6 fails with error "unknown file: Failure C++ exception with description "vector::_M_range_check: __n (which is 255) >= this->size() (which is 1)" thrown in the test body."	OPLParty::get_top_n_candidates()	Run OPLParty_test_6 aka 'get_top_noties' multiple times and the test will fail at least once. This seems to have no effect on any of the other test's functionality.	Indexing error. The fact that the error occurs in the testing for OPLParty but not the election instances indicates that it has more to do with creating a party / candidates / ballots from scratch rather than parsing from a csv file.
4	OPElection does not properly deal with elections where there are more parties than seats to give (e.g. 3 parties and 1 seat). It will give the seat or seats in the order of parties in the list of parties, so the last party will never get an allocated seat.	OPElection::assign_seats()	Run an OPL election with fewer seats than parties.	As far as can be seen, there is an issue with parsing the party text on the last party in the list. No matter the number of candidates, the last candidate:party combination will not map to an existing party in the parties vector, and will then add a new identical

				party in the vector. Thorough analysis has not revealed where the potential cause may be, since the line is correctly parsed but using str.compare on the two identical parties does not == 0.
5	IRCandidate::eliminate() should throw exception on a second call	IRCandidate::eliminate()	Call IRCandidate::eliminate() twice	Exception throw not implemented, otherwise methods functions as intended
6	IRCandidate::clear_ballots() should throw an exception if a candidate is not yet eliminated.	IRCandidate::clear_ballots()	Call clear_ballots() before eliminating candidate	Exception throw not implemented, otherwise method functions as intended