| **Project Name: Project 1: Voting System Team#08** | |
| --- | --- |
| **Test Stage: Unit \_x\_ System \_ \_** | **Test Date: 3/23/2023** |
| **Test Case ID#: CPLElection\_01** | **Name(s) of Testers: Dheva Subramaniam** |
| **Test Description:**   * Testing the ReadElection and the DisplayResults methods * This test uses the CPLElectionTest\_Basic.csv file, which contains an election that has no ties, no use for remainder allocation, and no seat redistributions * Since the RunElection method is not called, this checks to see if election information correctly autopopulates to the correct default values, before and of the ballots are actually assigned to any party |  |
| **Automated: yes\_x\_ no \_\_\_ using Google Test** |  |
| **Results: Pass \_\_\_\_x\_\_\_ Fail\_\_\_\_\_\_\_\_** |  |
|  |  |
| **Preconditions for Test:**  CPLElectionTest\_Basic.csv must be in the same directory as the testing executable | |

| **Step**  **#** | **Test Step**  **Description** | **Test**  **Data** | **Expected**  **Result** | **Actual**  **Result** | **Notes** |
| --- | --- | --- | --- | --- | --- |
| 1 | Opens CPLElectionTest\_Basic.csv | CPLElectionTest\_Basic.csv | istream object | istream object | N/A |
| 2 | Call ignore() on istream object with inputs 256 and ‘\n’ | int 256, char ‘\n’ | N/A | N/A | First line is being skipped as it is already known what type of election is being read |
| 3 | Create CPLElection object | istream generated by step 2, date string: “05012001” | CPLElection object | CPLElection object | N/A |
| 4 | Check that CPLElectionTest\_basic.csv is closed using is\_open() | istream object | false | false | N/A |
| 5 | Run the DisplayResultsMethod | CPLElection object from step 3 | See below Post condition(s) | See below Post condition(s) | Values are compared using Google Test |

**Post condition(s) for Test:**

N/A - \*Note, terminal output would normally result, but is captured by the testing framework for comparison purposes\*

Expected Result for Step 5:

Election type: CPL

Number of seats: 3

Number of ballots cast: 8

Party results:

PartyA:

Number of votes: 0 (0.00%)

Number of seats: 0 (0.00%)

PartyB:

Number of votes: 0 (0.00%)

Number of seats: 0 (0.00%)

PartyC:

Number of votes: 0 (0.00%)

Number of seats: 0 (0.00%)

PartyD:

Number of votes: 0 (0.00%)

Number of seats: 0 (0.00%)

PartyE:

Number of votes: 0 (0.00%)

Number of seats: 0 (0.00%)

Candidates receiving seats:

PartyA: None

PartyB: None

PartyC: None

PartyD: None

PartyE: None

Actual Result for Step 5:

Election type: CPL

Number of seats: 3

Number of ballots cast: 8

Party results:

PartyA:

Number of votes: 0 (0.00%)

Number of seats: 0 (0.00%)

PartyB:

Number of votes: 0 (0.00%)

Number of seats: 0 (0.00%)

PartyC:

Number of votes: 0 (0.00%)

Number of seats: 0 (0.00%)

PartyD:

Number of votes: 0 (0.00%)

Number of seats: 0 (0.00%)

PartyE:

Number of votes: 0 (0.00%)

Number of seats: 0 (0.00%)

Candidates receiving seats:

PartyA: None

PartyB: None

PartyC: None

PartyD: None

PartyE: None