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| **Project Name: Aegis Project 1: Voting System Team#7** | |
| **Test Stage: Unit X System \_** | **Test Date:** 3/26/21 |
| **Test Case ID#:** OPLTest\_11: findPartyWinnersLosers | **Name(s) of Testers:** Michael, Donald, Grant, Lucky |
| **Test Description:**  Verifies that findPartyWinners() correctly finds and adds the losing candidates to the losing vector. |  |
| **Automated: yes X no \_\_\_** | **Indicate where you are storing the tests (what file) and the name of the method/functions being used.**  Stored in file: OPLTest.cpp  Method names:   * findPartyWinners() * setSeatsWon() * getParties() * getPartyMembers() * getName() * getNumBallots() * getParty() |
| **Results: Pass \_\_X\_\_\_** Fail **\_\_\_\_\_\_\_\_** |  |
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| **Preconditions for Test:**  Election data has been set up properly. | |

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| **Step**  **#** | **Test Step**  **Description** | **Test**  **Data** | **Expected**  **Result** | **Actual**  **Result** | **Notes** |
|  |  |  |  |  |  |
| 1 | Set numSeatsWon to appropriate numbers for each party (since we don’t call allocate seats to do so). | opl->parties  opl->candidates  opl->seatsWon | opl->getLoser() = losingCandidates | opl->getLosers() = losingCandidates |  |
| 2 | Create a candidate vector with the losing candidates in the correct order |  |  |  |  |
| 3 | Call opl->findPartyWinners() and verify that opl’s losing vector is equal to the vector created in step 2 |  |  |  |  |

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

The losers of the election have been found and added to the losing vector.