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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\_2: sortByVotesReverse | **Name(s) of Testers:** Michael, Donald, Grant, Lucky |
| **Test Description:**  Verifies that sortByVotes() sorts the parties by their number of votes. The Party vector is already in reverse sorted order to start. |  |
| **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:   * sortByVotes() * setParties() * getPartyName() |
| **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 | Create a vector with the parties in the correct order | opl->parties | opl->getParties() = partiesOrdered | opl->getParties() = partiesOrdered |  |
| 2 | Create another vector with the parties in reverse sorted order. |  |  |  |  |
| 3 | Set opl’s party vector to the reverse order vector |  |  |  |  |
| 4 | Call opl->sortByVotes() |  |  |  |  |
| 5 | Verify that opl’s party vector is equal to the correct vector created in step 1 |  |  |  |  |

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

The Party vector has been sorted by their number of votes.