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| **Project Name: Project 1: CompuVote Team#19** | |
| **Test Stage:** Unit | **Test Date:** 3/27/21 |
| **Test Case ID #:** test\_435\_09\_runElection\_03\_testRunElectionTieBreaksOutput | **Name(s) of Testers:** Aaron Kandikatla |
| **Test Description:**  Given a standard OPL election with candidates, parties, and ballots where tie breaks are needed for the initial allocation and seat distributions, tests that the runElection algorithm works and outputs the expected audit file.  Note: If the test fails, the files generated are not deleted at the end. |  |
| **Automated:** Yes | **Indicate where you are storing the tests (what file) and the name of the method/functions being used:**  Test file: Project1/src/test/org/team19/OpenPartyListSystemTest.java  Test method: testRunElectionTieBreaksOutput  Method/constructor being tested: runElection from Project1/src/main/org/team19/OpenPartyListSystem.java |
| **Results:** Pass |  |
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| **Preconditions for Test:**  There exists a file called test\_run\_election\_tie\_breaks\_output\_audit\_actual.txt which represents the expected outputs, and the system is able to open and read the files. | |

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| **Step**  **#** | **Test Step**  **Description** | **Test**  **Data** | **Expected**  **Result** | **Actual**  **Result** | **Notes** |
|  |  |  |  |  |  |
| 1 | Tests that the tie break messages in the audit file generated by runElection match the expected file | **Number of seats: 4**  Party: D  Foster – 1 vote  Pike – 1 votes  Biden – 1 vote  Party: R  Borg – 1 vote  Jones – 1 vote  Deutsch – 1 vote  Party: I  Smith- 3 votes | test\_run\_election\_tie\_breaks\_output\_audit\_actual.txt matches the audit file generated by runElection | test\_run\_election\_tie\_breaks\_output\_audit\_actual.txt matches the audit file generated by runElection | N/A |

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

N/A