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| **Project Name: Project 1: CompuVote Team#19** | |
| **Test Stage:** Unit | **Test Date:** 03/14/2021 |
| **Test Case ID #:** test\_436\_07\_runElection\_04\_testRunElectionTieBreaksOutput | **Name(s) of Testers:** Aaron Kandikatla |
| **Test Description:**  Given a standard IR election with candidates, parties, and ballots, where there are several ties for eliminations and popularity, 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/InstantRunoffSystemTest.java  Test method: testRunElectionTieBreaksOutput  Method/constructor being tested: runElection from Project1/src/main/org/team19/InstantRunoffSystem.java |
| **Results:** Pass |  |
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| **Preconditions for Test:**  There exists a file called run\_election\_tie\_breaks\_output\_audit\_expected.txt in testing/test-recources/instantRunoffSystem/ which represents the expected outputs and the system is able to open and read the file. | |

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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 | **Ballots (6):**  b1 [Rosen (D), Royce (L), Kleinberg (R), Chou (I)]  b2 [Rosen (D), Chou (I)]  b3 [Rosen (D), Kleinberg (R), Chou (I)]  b4 [Chou (I), Kleinberg (R), Rosen (D), Royce (L)]  b5 [Chou (I), Royce (L)]  b6 [Royce (L)]  b7 [Chou (I)]  **Candidates (4):**  Rosen: b1, b2, b3,  Kleinberg:  Chou: b4, b5, b6  Royce: b6  Biden: 0  Trump: 0 | run\_election\_tie\_breaks\_output\_audit\_expected.txt matches the audit file generated by runElection | run\_election\_tie\_breaks\_output\_audit\_expected.txt matches the audit file generated by runElection | N/A |

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

N/A