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| **Project Name: Project 1: CompuVote Team #19** | |
| **Test Stage:** Unit | **Test Date:** 03/14/2021 |
| **Test Case ID #:** Test\_398\_09\_02 | **Name(s) of Testers:** Aaron Kandikatla |
| **Test Description:**  Given a standard OPL election with candidates, parties, ballots, and seats, where the initial allocation and second allocation have occurred, tests that distributeSeatsToCandidates performs accurately when candidates in a party have the same number of votes |  |
| **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: testDistributeSeatsToCandidatesTieBreaks Method/constructor being tested: distributeSeatsToCandidates from Project1/src/main/org/team19/OpenPartyListSystem.java |
| **Results:** Pass |  |
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| **Preconditions for Test:**  N/A | |

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| **Step**  **#** | **Test Step**  **Description** | **Test**  **Data** | **Expected**  **Result** | **Actual**  **Result** | **Notes** |
|  |  |  |  |  |  |
| 1 | Tests that the final set of Candidates to receive seats can potentially include either Jones or Borg since they both have the same number of votes | # of seats: 3  Parties:  D – 2 seats  R – 1 seat  I – 0 seats  Candidates:  Foster (D) – 3 ballots  Pike (D) - 2  Deutsch (R) - 0  Jones (R) - 1  Borg (R) - 1  Smith (I) - 1 | "[Pike (D), Foster (D), Jones (R)]"  ***or***  Pike (D), Foster (D), Borg (R)]" | "[Pike (D), Foster (D), Jones (R)]"  ***or***  Pike (D), Foster (D), Borg (R)]" | Run this test multiple times while printing data to see that both Jones and Borg have equal chance of being chosen |

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

 N/A