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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#:** IRTest\_1 | **Name(s) of Testers:** Michael/Lucky/Grant/Donald |
| **Test Description:**  TEST\_F (IRTest, findWinnerNoWinnernoTie)  Checks for functionality of findWinners  Where there isn’t a winner or a tie. |  |
| **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: IRTest.cpp  Method names:   * findWinner() |
| **Results: Pass \_\_X\_\_\_** Fail **\_\_\_\_\_\_\_\_** |  |
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| **Preconditions for Test:**  The data for the IR Election was set up correctly. | |

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| **Step**  **#** | **Test Step**  **Description** | **Test**  **Data** | **Expected**  **Result** | **Actual**  **Result** | **Notes** |
|  |  |  |  |  |  |
| 1 | Set up the first candidate | &ir->getCandidates()[0] |  |  |  |
| 2 | Check if the first candidate is greater than majority. | float temp = (float)ir->getElim()->getNumBallots() / 6.0; | EXPECT\_LE(temp, 0.5) = true | EXPECT\_LE(temp, 0.5) = true |  |
| 3 | Loop through the candidates |  |  |  |  |
| 4. | Check if the first candidate is greater than majority. | float temp2 = (float)ir->getCandidates()[i].getNumBallots() / 6.0 | EXPECT\_LE(temp, 0.5) = true | EXPECT\_LE(temp, 0.5) = true |  |
| 5 | Check if the second candidate is greater than majority. | float temp2 = (float)ir->getCandidates()[i].getNumBallots() / 6.0 | EXPECT\_LE(temp, 0.5) = true | EXPECT\_LE(temp, 0.5) = true |  |
| 6 | Check if the third candidate is greater than majority. | float temp2 = (float)ir->getCandidates()[i].getNumBallots() / 6.0 | EXPECT\_LE(temp, 0.5) = true | EXPECT\_LE(temp, 0.5) = true |  |

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

All the candidates should not have enough ballots to win the election.