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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\_4 | **Name(s) of Testers:** Michael/Lucky/Grant/Donald |
| **Test Description:**  TEST\_F (IRTest, eliminationBallotToEliminatedCandidate)  Tests to see if it handles giving ballots to an eliminated  candidate correct. . |  |
| **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:   * elimination() |
| **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 | First elimination which should remove the third candidate |  |  |  |  |
| 2 | Second elimination which should remove the second candidate |  |  |  | because the second candidate’s ballots dont include the winning candidate, they are then discarded. |
| 3. | Check if the first candidate has the correct number of votes. | ir->getCandidates().at(0).getNumBallots() | EXPECT\_EQ(ir->getCandidates().at(0).getNumBallots(), 4) = true | EXPECT\_EQ(ir->getCandidates().at(0).getNumBallots(), 4) = true |  |
| 4 | Check if the first candidate has no votes. | ir->getCandidates().at(1).getNumBallots() | EXPECT\_EQ(ir->getCandidates().at(1).getNumBallots(), 0) = true | EXPECT\_EQ(ir->getCandidates().at(1).getNumBallots(), 0) = true |  |
| 5 | Check if the first candidate has no votes. | ir->getCandidates().at(2).getNumBallots() | EXPECT\_EQ(ir->getCandidates().at(2).getNumBallots(), 0) = true | EXPECT\_EQ(ir->getCandidates().at(2).getNumBallots(), 0) = true |  |

**Post condition(s) for Test:** The first candidate should have all the ballots and the rest of the candidates should have 0 ballots. 