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| **Project Name: Project 1: Voting System Team#08** | |
| **Test Stage: Unit \_X\_ System \_\_** | **Test Date: 3/23/2023** |
| **Test Case ID#: IRBallot\_04** | **Name(s) of Testers: Mark Jokinen** |
| **Test Description:** Test functionality with an IRBallot of only 2 candidates |  |
| **Automated: yes\_X\_\_ no \_\_\_** | **Indicate where are you storing the tests (what file) and the name of the method/functions being used.**  **IRBallotTest.cpp, IRBallot.cpp** |
| **Results: Pass \_\_X\_\_\_ Fail\_\_\_\_\_\_\_\_** |  |
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| **Preconditions for Test:** Initialize IRBallot smallBallot = IRBallot(“2,1”) | |

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| **Step**  **#** | **Test Step**  **Description** | **Test**  **Data** | **Expected**  **Result** | **Actual**  **Result** | **Notes** |
| 1 | smallBallot.CurrentRank() | [smallBallot](mailto:example@gmail.com) | 1 | 1 |  |
| 2 | smallBallot.forCandidate() | smallBallot | 1 | 1 |  |
| 3 | smallBallot.IsNoRanks() | smallBallot | False | False |  |
| 4 | smallBallot.UpdateRank() | smallBallot | None | None |  |
| 5 | smallBallot.CurrentRank() | [smallBallot](mailto:example@gmail.com) | 2 | 2 |  |
| 6 | smallBallot.forCandidate() | smallBallot | 0 | 0 |  |
| 7 | smallBallot.IsNoRanks() | smallBallot | False | False |  |
| 8 | smallBallot.UpdateRank() | smallBallot | None | None |  |
| 9 | smallBallot.CurrentRank() | [smallBallot](mailto:example@gmail.com) | -1 | -1 |  |
| 10 | smallBallot.forCandidate() | smallBallot | -1 | -1 |  |
| 11 | smallBallot.IsNoRanks() | smallBallot | True | true |  |
|  |  |  |  |  |  |

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

We have verified that IRBallot functions correctly at all stages for a properly populated ballot with two candidates