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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\_05** | **Name(s) of Testers: Mark Jokinen** |
| **Test Description:** Test functionality with an IRBallot with many candidates, including blanks |  |
| **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 largeBallot = IRBallot("3,,1,,2,,,4,,") | |

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| **Step**  **#** | **Test Step**  **Description** | **Test**  **Data** | **Expected**  **Result** | **Actual**  **Result** | **Notes** |
| 1 | largeBallot.CurrentRank() | [largeBallot](mailto:example@gmail.com) | 1 | 1 |  |
| 2 | largeBallot.forCandidate() | largeBallot | 2 | 2 |  |
| 3 | largeBallot.IsNoRanks() | largeBallot | False | False |  |
| 4 | largeBallot.UpdateRank() | largeBallot | None | None |  |
| 5 | largeBallot.CurrentRank() | [largeBallot](mailto:example@gmail.com) | 2 | 2 |  |
| 6 | largeBallot.forCandidate() | largeBallot | 4 | 4 |  |
| 7 | largeBallot.IsNoRanks() | largeBallot | False | False |  |
| 8 | Repeat largeBallot.UpdateRank() three times, incrementing past all used ballots | largeBallot | None | None |  |
| 9 | largeBallot.CurrentRank() | [largeBallot](mailto:example@gmail.com) | -1 | -1 |  |
| 10 | largeBallot.forCandidate() | largeBallot | -1 | -1 |  |
| 11 | largeBallot.IsNoRanks() | largeBallot | True | true |  |
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**Post condition(s) for Test:**

We have verified that IRBallot functions correctly at all stages for a properly populated ballot with many candidates, including blanks