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| **Project Name: Project 1: Voting System Team# 3** | |
| **Test Stage: Unit X\_\_ System \_\_** | **Test Date: 4/2/2020** |
| **Test Case ID#: stv\_candidate\_UT009** | **Name(s) of Testers: Bryan Baker** |
| **Test Description:**  **The test verifies that stv candidates can have their ballot count set to zero. This is the primary method that sets the number of ballots for a candidate to zero when the ballot listt is removed.** |  |
| **Automated: yes\_X\_\_ no \_\_\_** | **Test File: candidate\_UT.cc**  **Method: TEST\_F(STVCandidateTests, SetNumBallotZero)** |
| **Results: Pass \_\_X\_\_\_ Fail\_\_\_\_\_\_\_\_** |  |
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| **Preconditions for Test:**  **Create one stv candidate objects, candidate1 and two ballot objects ballot1 and ballot2.** | |

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| **Step**  **#** | **Test Step**  **Description** | **Test**  **Data** | **Expected**  **Result** | **Actual**  **Result** | **Notes** |
| 1 | Check the initial number of ballots for candidat2 | candidate2 | 0 | 0 |  |
| 2 | Add ballot1 | candidate2, ballot1 |  |  |  |
| 3 | Get the number of ballots | candidate2 | 1 | 1 |  |
| 4 | Remove the ballot list fro candidate2 | candidate2 |  |  |  |
|  | Get the number of ballots | cnadidate 2 | 0 | 0 |  |
|  | Add ballot 1 and ballot2 | candidate2, ballot1, ballot2 |  |  |  |
|  | check the number of ballots | candidate2 | 2 | 2 |  |
|  | Remove the ballot list from candidate2 | cnadidae2 |  |  |  |
|  | Get the number of ballots | cnadidater2 | 0 | 0 |  |
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**Post condition(s) for Test:**

It is known that an stv candidate object will have its ballot counter set to zero after the remove ballot method is called.