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| **Project Name: Project 1: Voting System Team#3** | |
| **Test Stage: Unit \_x\_ System \_\_** | **Test Date: 4/1/20** |
| **Test Case ID#: Plurality\_election\_record\_UT001** | **Name(s) of Testers: Colin Kluegel** |
| **Test Description:**  **The test verifies that the constructor correctly created the nonDistributedBallotList and nonElectedCandidateList** | **Test file: plurality\_election\_record\_UT.cc**  **Method: TEST\_F(PluralityElectionRecordTests, Constructor)** |
| **Automated: yes\_\_x\_ no \_\_\_** | **Indicate where are you storing the tests (what file) and the name of the method/functions being used.** |
| **Results: Pass \_\_\_x\_\_ Fail\_\_\_\_\_\_\_\_** |  |
|  |  |
| **Preconditions for Test: 5 candidate objects and 5 ballot objects are created and put in candidate lists and ballot lists respectively. A new PluralityElectionRecord object is created with these lists** | |

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| **Step**  **#** | **Test Step**  **Description** | **Test**  **Data** | **Expected**  **Result** | **Actual**  **Result** | **Notes** |
| 1 | Create candidate list and set it to the output of election\_record->GetNonElectedCandidateList() | Candidate list |  |  |  |
| 2 | Create ballot list and set it to the output of the election\_record->GetNonDistributedBallotList() | Ballot list |  |  |  |
| 3 | Check that the retrieved candidate list is equal to the one originally put into the constructor |  | Lists should be equal | Test passed – Lists are equal | List are the same because no candidates have been moved to the winners or losers list yet |
| 4 | Check that the retrieved ballot list is equal to the one originally put into the constructor |  | Lists should be equal | Test passed – Lists are equal | List are the same because no ballots have been distributed yet |
|  |  |  |  |  |  |

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

No data was manipulated, post conditions are the same as the preconditions.

**Project Name:**  The project #, name of your system, and the team#

**Test Stage:** Indicate whether it is a unit test or a system test.

**Test Date:**  The date the test was performed.

**Test Case ID#:**  A unique ID is required. Decide on a naming convention and use numbering. Example: Ballot\_Shuffle\_1

**Name(s) of Testers:** List the names of anyone involved in running this test case.

**Test Description:**  Describe briefly the test objective.

**Automated:**  Indicate if the test is completely automated or being checked manually. (If you have methods running the tests and checking results, select “yes”. If you are manually checking results, indicate manual by selecting the “no.”)

**Results:** Indicate if the test passed or failed.

**Step #:** You will be listing the test steps in order. This number is the step number in the process.

**Test Step Description:** Details of the test step.

**Test Data:** What the test data will be for this step. Be clear on what the input data will be. If using a specific file, be clear on the name.

**Expected Result:** What result are you expecting from the program component or system.

**Actual Result:** What result were returned based on the test.

**Post condition for Test:** What will be true after the test has been run? Has the state of the system changed in any way?

**Notes:** Comments and notesfor you and your team members.