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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\_UT006** | **Name(s) of Testers: Colin Kluegel** |
| **Test Description:**  **Tests that method MoveFirstNCandidatesFromNonElectedListToWinnersList can move candidates from nonelected list to the winners list** | **Test file: plurality\_election\_record\_UT.cc**  **Method: TEST\_F(PluralityElectionRecordTests, MoveFirstNCandidatesFromNonElectedListToWinnersList)** |
| **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: 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 | Attempt to move 20 candidates to winners list |  | Exception thrown | Exception thrown | We expect an exception because there are only 5 candidates |
| 2 | Call election\_record->MoveFirstNCandidatesFromNonElectedList-  ToWinners(3) to move 3 of the candidates to the winners lsit |  |  |  |  |
| 3 | Create a candidates\_list and set it to what is returned by election\_record->GetWinnersList(3) | Candidates list |  |  |  |
| 4 | Create a candidate object of the first candidate in the winnersList | Candidate object |  |  |  |
| 5 | Check that we move the correct candidate to the front of the winners list |  | candidate5 should be at the front of the winners list | Candidate5 is at the front of the winners list, test passed |  |
|  |  |  |  |  |  |
| 6 | Pop first candidate off of winners list |  |  |  |  |
|  |  |  |  |  |  |
| 7 | Check new candidate at front of winners list | Candidate object | Candidate4 should be at front of winners list | Candidate4 is a front of winners list,  Test passed |  |
|  |  |  |  |  |  |
| 8 | Pop first candidate off of winners list |  |  |  |  |
| 9 | Check new candidate at front of winners lsit | Candidate object | Candidate3 should be at front of winners list | Candidate3 is a front of winners list, test passed |  |

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

3 candidates have been moved from the Non-elected list to the winners list

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.