| **Project Name: Project 1: Voting System Team# 9** | |
| --- | --- |
| **Test Stage: Unit** | **Test Date: 03/26/2021** |
| **Test Case ID#: testRunIR()** | **Name(s) of Testers: Isaac** |
| **Test Description:**  This will test the eliminate() method in the IR class. Candidates at initialization should not be eliminated, then as eliminate() is called on a candidate, the candidate should be eliminated() (the candidate's eliminate boolean turns true). This test will test the candidates. |  |
| **Automated: Yes** | **Indicate where are you storing the tests (what file) and the name of the method/functions being used.**  The tests are stored in IRTest.java. The methods tested are: parse(), IR() constructor, getCandNames(), isEliminate(), eliminate() |
| **Results: Pass** |  |
|  |  |
| **Preconditions for Test:** Must have test files within the same directory of IRTest.java, because IRTest will use test election csv files to test the output of each method and the election. | |

| **Step**  **#** | **Test Step**  **Description** | **Test**  **Data** | **Expected**  **Result** | **Actual**  **Result** | **Notes** |
| --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |
| 1 | Candidates are not eliminated at the beginning, therefore, candidate.isEliminated() should be false. Used a for loop to go through all the candidates | static File testFile1 = new File("src/votecountsystem/irTest.csv");  static File testFile2 = new File("src/votecountsystem/irTestFile1.csv");  static File testFile3 = new File("src/votecountsystem/irtest.csv");  static File testFile4 = new File("src/votecountsystem/irTie.csv"); | false  false  false | false  false  false |  |
| 2 | Once eliminate() is called on all the candidates, check if the all candidates elimination status is set to true | String[] names = {"Billy", "Sandra"};  char[] parties = {'D','I'};  static File testFile1 = new File("src/votecountsystem/irTest.csv");  static File testFile2 = new File("src/votecountsystem/irTestFile1.csv");  static File testFile3 = new File("src/votecountsystem/irtest.csv");  static File testFile4 = new File("src/votecountsystem/irTie.csv"); | true  true  true | true  true  true |  |

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

The IR object will have all its candidates’ elimination status set to true as they are now all eliminated from the election from calling eliminate().

