Project Name: Project 1: Voting System **Team# 2**

Test Stage: System **Test Date: 03/25/2023**

Test Case ID#: test-IR-1 **Name(s) of Testers: Aahan Tyagi**

Test Description: This test is a basic example of how to test the "calculateResults" method for the IR voting system, and it helps to ensure that the method works as expected for a simple set of inputs.

Automated: yes

Indicate where are you storing the tests (what file) and the name of the method/functions being used.

Results: Pass

Preconditions for Test:

Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes
1					
2					
3					
4					

Post condition(s) for Test:

Test Stage: Unit

Test Date: 03/25/2023

Test Case ID#: test-IR-2

Name(s) of Testers: Aahan Tyagi

Test Description: This is a unit test for the "countVotes" method in the "IR" class. The purpose of the test is to verify that the method correctly counts the number of votes for each candidate in a given set of ballots.

Automated: yes

Indicate where are you storing the tests (what file) and the name of the method/functions being used.

Results: Pass

Preconditions for Test:

Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes
1					
2					
3					
4					

Test Stage: Unit

Test Date: 03/25/2023

Test Case ID#: test-IR-3

Name(s) of Testers: Aahan Tyagi

Test Description: This is a unit test for the "getAuditFileName" method in the "IR" class. The purpose of the test is to verify that the method correctly returns the name of the audit file associated with the instance of the "IR" class.

Automated: yes

Indicate where are you storing the tests (what file) and the name of the method/functions being used.

Results: Pass

Preconditions for Test:

Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes
1					
2					
3					
4					

Test Stage: Unit

Test Date: 03/25/2023

Test Case ID#: test-IR-4

Name(s) of Testers: Aahan Tyagi

Test Description: This is a unit test for the "getVotingSystem" method in the "IR" class. The purpose of the test is to verify that the method correctly returns the instance of the "VotingSystem" class associated with the instance of the "IR" class.

Automated: yes

Indicate where are you storing the tests (what file) and the name of the method/functions being used.

Results: Pass

Preconditions for Test:

Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes
1					
2					
3					
4					

Test Stage: Unit

Test Date: 03/25/2023

Test Case ID#: test-IR-5

Name(s) of Testers: Aahan Tyagi

Test Description: This is a unit test for the "hasLeastVotes" method in the "IR" class. The purpose of the test is to verify that the method correctly identifies the candidate or candidates with the least number of votes.

Automated: yes

Indicate where are you storing the tests (what file) and the name of the method/functions being used.

Results: Pass

Preconditions for Test:

Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes
1					
2					
3					
4					

Test Stage: Unit

Test Date: 03/25/2023

Test Case ID#: test-IR-6

Name(s) of Testers: Aahan Tyagi

Test Description: This is a unit test for the "initializeBallots" method in the "IR" class. The purpose of the test is to verify that the method correctly initializes a vector of ballots with the specified number of rankings.

Automated: yes

Indicate where are you storing the tests (what file) and the name of the method/functions being used.

Results: Pass

Preconditions for Test:

Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes
1					
2					
3					
4					

Test Stage: Unit

Test Date: 03/25/2023

Test Case ID#: test-IR-7

Name(s) of Testers: Aahan Tyagi

Test Description: The test "test-IR-7" tests the behavior of the majorityVotesCheck() method of the IR class

Automated: yes

Indicate where are you storing the tests (what file) and the name of the method/functions being used.

Results: Pass

Preconditions for Test:

Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes
1					
2					
3					
4					

Test Stage: Unit

Test Date: 03/25/2023

Test Case ID#: test-IR-8

Name(s) of Testers: Aahan Tyagi

Test Description: This test is checking the nextRankExists method of the IR class. The nextRankExists method takes an array of vote ranks and a current rank as input, and returns a boolean indicating whether there is a higher rank available for the given current rank in the array of votes.

Automated: yes

Indicate where are you storing the tests (what file) and the name of the method/functions being used.

Results: Pass

Preconditions for Test:

Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes
1					
2					
3					
4					

Test Stage: Unit

Test Date: 03/25/2023

Test Case ID#: test-IR-9

Name(s) of Testers: Aahan Tyagi

Test Description: This test "testResolveTie" tests the "resolveTie" method of the "IR" class. The method takes an integer parameter, which represents the number of candidates tied for the lowest number of votes.

Automated: yes

Indicate where are you storing the tests (what file) and the name of the method/functions being used.

Results: Pass

Preconditions for Test:

Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes
1					
2					
3					
4					

Test Stage: Unit

Test Date: 03/25/2023

Test Case ID#: test-IR-10

Name(s) of Testers: Aahan Tyagi

Test Description: This test case tests the setAuditFileName() method of the IR class. This test case ensures that the setAuditFileName() method correctly updates the audit file name variable in the IR class.

Automated: yes

Indicate where are you storing the tests (what file) and the name of the method/functions being used.

Results: Pass

Preconditions for Test:

Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes
1					
2					
3					
4					

Test Stage: Unit

Test Date: 03/25/2023

Test Case ID#: test-IR-11

Name(s) of Testers: Aahan Tyagi

Test Description: This test, labeled as "test-IR-11", checks if the setVotingSystem method in the IR class is working correctly. This test ensures that the setVotingSystem method is correctly setting the VotingSystem object of the IR class.

Automated: yes

Indicate where are you storing the tests (what file) and the name of the method/functions being used.

Results: Pass

Preconditions for Test:

Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes
1					
2					
3					
4					

Test Stage: Unit

Test Date: 03/25/2023

Test Case ID#: test-IR-12

Name(s) of Testers: Aahan Tyagi

Test Description: This test case is designed to test the "updateBallots" method of an Instant Runoff (IR) voting system. This test case checks if the method is functioning correctly and updating the ballots in the expected way.

Automated: yes

Indicate where are you storing the tests (what file) and the name of the method/functions being used.

Results: Pass

Preconditions for Test:

Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes
1					
2					
3					
4					

Test Stage: Unit

Test Date: 03/25/2023

Test Case ID#: test-IR-13

Name(s) of Testers: Aahan Tyagi

Test Description: This test case is designed to test the "writeToAudit" method of an Instant Runoff (IR) voting system. This test case checks if the method is functioning correctly and writing the message to the audit log file as expected.

Automated: yes

Indicate where are you storing the tests (what file) and the name of the method/functions being used.

Results: Pass

Preconditions for Test:

Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes
1					
2					
3					
4					

Test Stage: Unit

Test Date: 03/25/2023

Test Case ID#: test-IR-14

Name(s) of Testers: Aahan Tyagi

Test Description: This test case is designed to test the "refreshCountOfVotes" method of an Instant Runoff (IR) voting system. This test case checks if the method is functioning correctly and refreshing the count of votes for each candidate in the expected way.

Automated: yes

Indicate where are you storing the tests (what file) and the name of the method/functions being used.

Results: Pass

Preconditions for Test:

Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes
1					
2					
3					
4					

Project Name: Project 1: Voting System **Team# 2**

Test Stage: Unit

Test Date: 03/25/2023

Test Case ID#: Test-CPL-1

Name(s) of Testers: Jackie Li

Test Description: This test is an example of how to test the "GetAuditFileName" method in CPL.java, and it helps to ensure that the method works as expected for a simple set of inputs.

Automated: yes

Indicate where are you storing the tests (what file) and the name of the method/functions being used.

Results: Pass

Preconditions for Test:

Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes
1					
2					
3					
4					

Post condition(s) for Test:

Project Name: Project 1: Voting System **Team# 2**

Test Stage: Unit

Test Date: 03/25/2023

Test Case ID#: Test-CPL-2

Name(s) of Testers: Jackie Li

Test Description: This test is an example of how to test the "SetAuditFileName" method in CPL.java, and it helps to ensure that the method works as expected for a simple set of inputs.

Automated: yes

Indicate where are you storing the tests (what file) and the name of the method/functions being used.

Results: Pass

Preconditions for Test:

Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes
1					
2					
3					
4					

Post condition(s) for Test:

Project Name: Project 1: Voting System **Team# 2**

Test Stage: Unit

Test Date: 03/25/2023

Test Case ID#: Test-CPL-3

Name(s) of Testers: Jackie Li

Test Description: This test is an example of how to test the "GetVotingSystem" method in CPL.java, and it helps to ensure that the method works as expected for a simple set of inputs.

Automated: yes

Indicate where are you storing the tests (what file) and the name of the method/functions being used.

Results: Pass

Preconditions for Test:

Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes
1					
2					
3					
4					

Post condition(s) for Test:

Project Name: Project 1: Voting System **Team# 2**

Test Stage: Unit

Test Date: 03/25/2023

Test Case ID#: Test-CPL-4

Name(s) of Testers: Jackie Li

Test Description: This test is an example of how to test the "GetTieBreaker" method in CPL.java, and it helps to ensure that the method works as expected for a simple set of inputs.

Automated: yes

Indicate where are you storing the tests (what file) and the name of the method/functions being used.

Results: Pass

Preconditions for Test:

Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes
1					
2					
3					
4					

Post condition(s) for Test:

Project Name: Project 1: Voting System **Team# 2**

Test Stage: Unit

Test Date: 03/25/2023

Test Case ID#: Test-CPL-5

Name(s) of Testers: Jackie Li

Test Description: This test is an example of how to test the "SetTieBreaker" method in CPL.java, and it helps to ensure that the method works as expected for a simple set of inputs.

Automated: yes

Indicate where are you storing the tests (what file) and the name of the method/functions being used.

Results: Pass

Preconditions for Test:

Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes
1					
2					
3					
4					

Post condition(s) for Test:

Project Name: Project 1: Voting System **Team# 2**

Test Stage: Unit

Test Date: 03/25/2023

Test Case ID#: Test-CPL-6

Name(s) of Testers: Jackie Li

Test Description: This test is a basic example of how to test the "CountVotes" method for the IR voting system, and it helps to ensure that the method works as expected for a simple set of inputs.

Automated: yes

Indicate where are you storing the tests (what file) and the name of the method/functions being used.

Results: Pass

Preconditions for Test:

Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes
1					
2					
3					
4					

Post condition(s) for Test:

Project Name: Project 1: Voting System **Team# 2**

Test Stage: Unit

Test Date: 03/25/2023

Test Case ID#: Test-CPL-7

Name(s) of Testers: Jackie Li

Test Description: This test is an example of how to test the "MostVotes" method in CPL.java without a tie, and it helps to ensure that the method works as expected for a simple set of inputs.

Automated: yes

Indicate where are you storing the tests (what file) and the name of the method/functions being used.

Results: Pass

Preconditions for Test:

Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes
1					
2					
3					
4					

Post condition(s) for Test:

Project Name: Project 1: Voting System **Team# 2**

Test Stage: Unit

Test Date: 03/25/2023

Test Case ID#: Test-CPL-8

Name(s) of Testers: Jackie Li

Test Description: This test is an example of how to test the "GetTieBreaker" method in CPL.java with a tie, and it helps to ensure that the method works as expected for a simple set of inputs.

Automated: yes

Indicate where are you storing the tests (what file) and the name of the method/functions being used.

Results: Pass

Preconditions for Test:

Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes
1					
2					
3					
4					

Post condition(s) for Test:

Project Name: Project 1: Voting System **Team# 2**

Test Stage: Unit

Test Date: 03/25/2023

Test Case ID#: Test-CPL-9

Name(s) of Testers: Jackie Li

Test Description: This test is an example of how to test the "Find Winner" method in CPL.java, and it helps to ensure that the method works as expected for a simple set of inputs.

Automated: yes

Indicate where are you storing the tests (what file) and the name of the method/functions being used.

Results: Pass

Preconditions for Test:

Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes
1					
2					
3					
4					

Post condition(s) for Test:

Project Name: Project 1: Voting System **Team# 2**

Test Stage: Unit

Test Date: 03/25/2023

Test Case ID#: Test-CPL-10

Name(s) of Testers: Jackie Li

Test Description: This test is a basic example of how to test the "tieBreaker" method for the CPL voting system, and it helps to ensure that the method works as expected for a simple set of inputs.

Automated: yes

Indicate where are you storing the tests (what file) and the name of the method/functions being used.

Results: Pass

Preconditions for Test:

Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes
1					
2					
3					
4					

Post condition(s) for Test:

Project Name: Project 1: Voting System **Team# 2**

Test Stage: Unit

Test Date: 03/25/2023

Test Case ID#: Test-CPL-11

Name(s) of Testers: Jackie Li

Test Description: This test is a basic example of how to test the "WriteToAudit" method for the CPL voting system, and it helps to ensure that the method works as expected for a simple set of inputs.

Automated: yes

Indicate where are you storing the tests (what file) and the name of the method/functions being used.

Results: Pass

Preconditions for Test:

Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes
1					
2					
3					
4					

Post condition(s) for Test:

Project Name: Project 1: Voting System **Team# 2**

Test Stage: System **Test Date: 03/25/2023**

Test Case ID#: Test-CPL-12 **Name(s) of Testers: Jackie Li**

Test Description: This test is a basic example of how to test the "calculateResults" method for the CPLvoting system, and it helps to ensure that the method works as expected for a simple set of inputs.

Automated: yes **Indicate where are you storing the tests (what file) and the name of the method/functions being used.**

Results: Pass

Preconditions for Test:

Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes
1					
2					
3					
4					

Post condition(s) for Test:

Project Name: Project 1: Voting System **Team# 2**

Test Stage: Unit

Test Date: 03/25/2023

Test Case ID#: Test-CPL-13

Name(s) of Testers: Jackie Li

Test Description: This test is a basic example of how to test the "ResolveTie" method for the IR voting system, and it helps to ensure that the method works as expected for a simple set of inputs.

Automated: yes

Indicate where are you storing the tests (what file) and the name of the method/functions being used.

Results: Pass

Preconditions for Test:

Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes
1					
2					
3					
4					

Post condition(s) for Test:

Project Name: Project 1: Voting System **Team# 2**

Test Stage: Unit

Test Date: 03/25/2023

Test Case ID#: Test-CPL-13

Name(s) of Testers: Jackie Li

Test Description: This test is a basic example of how to test the "ResolveTie" method for the IR voting system, and it helps to ensure that the method works as expected for a simple set of inputs.

Automated: yes

Indicate where are you storing the tests (what file) and the name of the method/functions being used.

Results: Pass

Preconditions for Test:

Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes
1					
2					
3					
4					

Post condition(s) for Test:

Project Name: Project 1: Voting System **Team# 2**

Test Stage: Unit

Test Date: 03/25/2023

Test Case ID#: Test-Ballot-1

Name(s) of Testers: Jackie Li

Test Description: This test is a basic example of how to test the "getVotes" method for the Ballot Class, and it helps to ensure that the method works as expected for a simple set of inputs.

Automated: yes

Indicate where are you storing the tests (what file) and the name of the method/functions being used.

Results: Pass

Preconditions for Test:

Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes
1					
2					
3					
4					

Post condition(s) for Test:

Project Name: Project 1: Voting System **Team# 2**

Test Stage: Unit

Test Date: 03/25/2023

Test Case ID#: Test-Ballot-2

Name(s) of Testers: Jackie Li

Test Description: This test is a basic example of how to test the "setVotes" method for the Ballot Class, and it helps to ensure that the method works as expected for a simple set of inputs.

Automated: yes

Indicate where are you storing the tests (what file) and the name of the method/functions being used.

Results: Pass

Preconditions for Test:

Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes
1					
2					
3					
4					

Post condition(s) for Test:

Project Name: Project 1: Voting System **Team# 2**

Test Stage: Unit

Test Date: 03/25/2023

Test Case ID#: Test-Ballot-3

Name(s) of Testers: Jackie Li

Test Description: This test is a basic example of how to test the "getRank" method for the Ballot Class, and it helps to ensure that the method works as expected for a simple set of inputs.

Automated: yes

Indicate where are you storing the tests (what file) and the name of the method/functions being used.

Results: Pass

Preconditions for Test:

Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes
1					
2					
3					
4					

Post condition(s) for Test:

Project Name: Project 1: Voting System **Team# 2**

Test Stage: Unit

Test Date: 03/25/2023

Test Case ID#: Test-Ballot-4

Name(s) of Testers: Jackie Li

Test Description: This test is a basic example of how to test the "setRank" method for the Ballot Class, and it helps to ensure that the method works as expected for a simple set of inputs.

Automated: yes

Indicate where are you storing the tests (what file) and the name of the method/functions being used.

Results: Pass

Preconditions for Test:

Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes
1					
2					
3					
4					

Post condition(s) for Test:

Project Name: Project 1: Voting System **Team# 2**

Test Stage: Unit

Test Date: 03/25/2023

Test Case ID#: Test-Ballot-5

Name(s) of Testers: Jackie Li

Test Description: This test is a basic example of how to test the "increaseRank" method for the Ballot Class, and it helps to ensure that the method works as expected for a simple set of inputs.

Automated: yes

Indicate where are you storing the tests (what file) and the name of the method/functions being used.

Results: Pass

Preconditions for Test:

Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes
1					
2					
3					
4					

Post condition(s) for Test:

Project Name: Project 1: Voting System **Team# 2**

Test Stage: Unit

Test Date: 03/25/2023

Test Case ID#: Test-Ballot-6

Name(s) of Testers: Jackie Li

Test Description: This test is a basic example of how to test the "Ballot" method for the Ballot Class, and it helps to ensure that the method works as expected for a simple set of inputs.

Automated: yes

Indicate where are you storing the tests (what file) and the name of the method/functions being used.

Results: Pass

Preconditions for Test:

Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes
1					
2					
3					
4					

Post condition(s) for Test:

Project Name: Project 1: Voting System **Team# 2**

Test Stage: Unit

Test Date: 03/25/2023

Test Case ID#: Test-Candidate-1

Name(s) of Testers: Jackie Li

Test Description: This test is a basic example of how to test the "Candidate" method for the candidate class, and it helps to ensure that the method works as expected for a simple set of inputs.

Automated: yes

Indicate where are you storing the tests (what file) and the name of the method/functions being used.

Results: Pass

Preconditions for Test:

Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes
1					
2					
3					
4					

Post condition(s) for Test:

Project Name: Project 1: Voting System **Team# 2**

Test Stage: Unit

Test Date: 03/25/2023

Test Case ID#: Test-Candidate-2

Name(s) of Testers: Jackie Li

Test Description: This test is a basic example of how to test the "getUsed" method for the candidate class, and it helps to ensure that the method works as expected for a simple set of inputs.

Automated: yes

Indicate where are you storing the tests (what file) and the name of the method/functions being used.

Results: Pass

Preconditions for Test:

Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes
1					
2					
3					
4					

Post condition(s) for Test:

Project Name: Project 1: Voting System **Team# 2**

Test Stage: Unit

Test Date: 03/25/2023

Test Case ID#: Test-Candidate-3

Name(s) of Testers: Jackie Li

Test Description: This test is a basic example of how to test the "setUsed" method for the candidate class, and it helps to ensure that the method works as expected for a simple set of inputs.

Automated: yes

Indicate where are you storing the tests (what file) and the name of the method/functions being used.

Results: Pass

Preconditions for Test:

Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes
1					
2					
3					
4					

Post condition(s) for Test:

Project Name: Project 1: Voting System **Team# 2**

Test Stage: Unit

Test Date: 03/25/2023

Test Case ID#: Test-Candidate-4

Name(s) of Testers: Jackie Li

Test Description: This test is a basic example of how to test the "getNumVotes" method for the candidate class, and it helps to ensure that the method works as expected for a simple set of inputs.

Automated: yes

Indicate where are you storing the tests (what file) and the name of the method/functions being used.

Results: Pass

Preconditions for Test:

Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes
1					
2					
3					
4					

Post condition(s) for Test:

Project Name: Project 1: Voting System **Team# 2**

Test Stage: Unit

Test Date: 03/25/2023

Test Case ID#: Test-Candidate-5

Name(s) of Testers: Jackie Li

Test Description: This test is a basic example of how to test the "setNumVotes" method for the candidate class, and it helps to ensure that the method works as expected for a simple set of inputs.

Automated: yes

Indicate where are you storing the tests (what file) and the name of the method/functions being used.

Results: Pass

Preconditions for Test:

Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes
1					
2					
3					
4					

Post condition(s) for Test:

Project Name: Project 1: Voting System **Team# 2**

Test Stage: Unit

Test Date: 03/25/2023

Test Case ID#: Test-Candidate-6

Name(s) of Testers: Jackie Li

Test Description: This test is a basic example of how to test the "IncreaseNumVotes" method for the candidate class, and it helps to ensure that the method works as expected for a simple set of inputs.

Automated: yes

Indicate where are you storing the tests (what file) and the name of the method/functions being used.

Results: Pass

Preconditions for Test:

Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes
1					
2					
3					
4					

Post condition(s) for Test:

Project Name: Project 1: Voting System **Team# 2**

Test Stage: Unit

Test Date: 03/25/2023

Test Case ID#: Test-Candidate-7

Name(s) of Testers: Jackie Li

Test Description: This test is a basic example of how to test the "decreaseNumVotes" method for the candidate class, and it helps to ensure that the method works as expected for a simple set of inputs.

Automated: yes

Indicate where are you storing the tests (what file) and the name of the method/functions being used.

Results: Pass

Preconditions for Test:

Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes
1					
2					
3					
4					

Post condition(s) for Test:

Project Name: Project 1: Voting System **Team# 2**

Test Stage: Unit **Test Date: 03/25/2023**

Test Case ID#: Test-VotingSystem-1 **Name(s) of Testers: Jackie Li**

Test Description: This test is a basic example of how to test the "decreaseNumVotes" method for the candidate class, and it helps to ensure that the method works as expected for a simple set of inputs.

Automated: yes

Indicate where are you storing the tests (what file) and the name of the method/functions being used.

Results: Pass

Preconditions for Test:

Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes
1					
2					
3					
4					

Post condition(s) for Test:

Project Name: Project 1: Voting System **Team# 2**

Test Stage: Unit

Test Date: 03/25/2023

Test Case ID#: Test-VotingSystem-1

Name(s) of Testers: Jackie Li

Test Description: This test is a basic example of how to test the "getNumBallots" method for the VotingSystem class, and it helps to ensure that the method works as expected for a simple set of inputs.

Automated: yes

Indicate where are you storing the tests (what file) and the name of the method/functions being used.

Results: Pass

Preconditions for Test:

Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes
1					
2					
3					
4					

Post condition(s) for Test:

Project Name: Project 1: Voting System **Team# 2**

Test Stage: Unit

Test Date: 03/25/2023

Test Case ID#: Test-VotingSystem-2

Name(s) of Testers: Jackie Li

Test Description: This test is a basic example of how to test the "setNumBallots" method for the VotingSystem class, and it helps to ensure that the method works as expected for a simple set of inputs.

Automated: yes

Indicate where are you storing the tests (what file) and the name of the method/functions being used.

Results: Pass

Preconditions for Test:

Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes
1					
2					
3					
4					

Post condition(s) for Test:

Project Name: Project 1: Voting System **Team# 2**

Test Stage: Unit

Test Date: 03/25/2023

Test Case ID#: Test-VotingSystem-3

Name(s) of Testers: Jackie Li

Test Description: This test is a basic example of how to test the "getBallots" method for the VotingSystem class, and it helps to ensure that the method works as expected for a simple set of inputs.

Automated: yes

Indicate where are you storing the tests (what file) and the name of the method/functions being used.

Results: Pass

Preconditions for Test:

Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes
1					
2					
3					
4					

Post condition(s) for Test:

Project Name: Project 1: Voting System **Team# 2**

Test Stage: Unit

Test Date: 03/25/2023

Test Case ID#: Test-VotingSystem-4

Name(s) of Testers: Jackie Li

Test Description: This test is a basic example of how to test the "setBallots" method for the VotingSystem class, and it helps to ensure that the method works as expected for a simple set of inputs.

Automated: yes

Indicate where are you storing the tests (what file) and the name of the method/functions being used.

Results: Pass

Preconditions for Test:

Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes
1					
2					
3					
4					

Post condition(s) for Test:

Project Name: Project 1: Voting System **Team# 2**

Test Stage: Unit **Test Date: 03/25/2023**

Test Case ID#: Test-VotingSystem-5 **Name(s) of Testers: Jackie Li**

Test Description: This test is a basic example of how to test the "setNumCandidates" method for the VotingSystem class, and it helps to ensure that the method works as expected for a simple set of inputs.

Automated: yes

Indicate where are you storing the tests (what file) and the name of the method/functions being used.

Results: Pass

Preconditions for Test:

Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes
1					
2					
3					
4					

Post condition(s) for Test:

Project Name: Project 1: Voting System **Team# 2**

Test Stage: Unit

Test Date: 03/25/2023

Test Case ID#: Test-VotingSystem-6

Name(s) of Testers: Jackie Li

Test Description: This test is a basic example of how to test the "setNumCandidates" method for the VotingSystem class, and it helps to ensure that the method works as expected for a simple set of inputs.

Automated: yes

Indicate where are you storing the tests (what file) and the name of the method/functions being used.

Results: Pass

Preconditions for Test:

Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes
1					
2					
3					
4					

Post condition(s) for Test:

Project Name: Project 1: Voting System **Team# 2**

Test Stage: Unit

Test Date: 03/25/2023

Test Case ID#: Test-VotingSystem-7

Name(s) of Testers: Jackie Li

Test Description: This test is a basic example of how to test the "getCandidates" method for the VotingSystem class, and it helps to ensure that the method works as expected for a simple set of inputs.

Automated: yes

Indicate where are you storing the tests (what file) and the name of the method/functions being used.

Results: Pass

Preconditions for Test:

Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes
1					
2					
3					
4					

Post condition(s) for Test:

Project Name: Project 1: Voting System **Team# 2**

Test Stage: Unit

Test Date: 03/25/2023

Test Case ID#: Test-VotingSystem-8

Name(s) of Testers: Jackie Li

Test Description: This test is a basic example of how to test the "setCandidates" method for the VotingSystem class, and it helps to ensure that the method works as expected for a simple set of inputs.

Automated: yes

Indicate where are you storing the tests (what file) and the name of the method/functions being used.

Results: Pass

Preconditions for Test:

Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes
1					
2					
3					
4					

Post condition(s) for Test:

Project Name: Project 1: Voting System **Team# 2**

Test Stage: Unit **Test Date: 03/25/2023**

Test Case ID#: Test-VotingSystem-9 **Name(s) of Testers: Jackie Li**

Test Description: This test is a basic example of how to test the "getNumSeats" method for the VotingSystem class, and it helps to ensure that the method works as expected for a simple set of inputs.

Automated: yes

Indicate where are you storing the tests (what file) and the name of the method/functions being used.

Results: Pass

Preconditions for Test:

Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes
1					
2					
3					
4					

Post condition(s) for Test:

Project Name: Project 1: Voting System **Team# 2**

Test Stage: Unit **Test Date: 03/25/2023**

Test Case ID#: Test-VotingSystem-10 **Name(s) of Testers: Jackie Li**

Test Description: This test is a basic example of how to test the "setNumSeats" method for the VotingSystem class, and it helps to ensure that the method works as expected for a simple set of inputs.

Automated: yes

Indicate where are you storing the tests (what file) and the name of the method/functions being used.

Results: Pass

Preconditions for Test:

Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes
1					
2					
3					
4					

Post condition(s) for Test:

Project Name: Project 1: Voting System **Team# 2**

Test Stage: Unit

Test Date: 03/25/2023

Test Case ID#: Test-VotingSystem-11

Name(s) of Testers: Jackie Li

Test Description: This test is a basic example of how to test the "getType" method for the VotingSystem class, and it helps to ensure that the method works as expected for a simple set of inputs.

Automated: yes

Indicate where are you storing the tests (what file) and the name of the method/functions being used.

Results: Pass

Preconditions for Test:

Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes
1					
2					
3					
4					

Post condition(s) for Test:

Project Name: Project 1: Voting System **Team# 2**

Test Stage: Unit

Test Date: 03/25/2023

Test Case ID#: Test-VotingSystem-12

Name(s) of Testers: Jackie Li

Test Description: This test is a basic example of how to test the "setType" method for the VotingSystem class, and it helps to ensure that the method works as expected for a simple set of inputs.

Automated: yes

Indicate where are you storing the tests (what file) and the name of the method/functions being used.

Results: Pass

Preconditions for Test:

Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes
1					
2					
3					
4					

Post condition(s) for Test:

Project Name: Project 1: Voting System **Team# 2**

Test Stage: System **Test Date: 03/25/2023**

Test Case ID#: Test-VotingSystem-13 **Name(s) of Testers: Jackie Li**

Test Description: This test is a basic example of how to test the "runCalculator" method for the VotingSystem class, and it helps to ensure that the method works as expected for a simple set of inputs.

Automated: yes

Indicate where are you storing the tests (what file) and the name of the method/functions being used.

Results: Pass

Preconditions for Test:

Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes
1					
2					
3					
4					

Post condition(s) for Test:

Project Name: Project 1: Voting System **Team# 2**

Test Stage: Unit

Test Date: 03/25/2023

Test Case ID#: Test-VotingSystem-14

Name(s) of Testers: Jackie Li

Test Description: This test is a basic example of how to test the "openFile" method for the VotingSystem class, and it helps to ensure that the method works as expected for a simple set of inputs.

Automated: No

Indicate where are you storing the tests (what file) and the name of the method/functions being used.

Results: Pass

Preconditions for Test: A file that exists in the same directory as the testing file should exist.

Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes
1					
2	Create file name as a string	“sampleCPL.csv”	String with file name exists	String with file name exists	
3	Create VotingSystem object	VotingSystem object	A Voting System object exists	A Voting System object exists	
4	Pass String from step 1 into VotingSystem.openFile	Should return a boolean value on if this succeeds	True for success	True with success	

Post condition(s) for Test:
The file has been opened.