Project Name: Project 1: Voting System **Team#24**

Test Stage: Unit __ System __

Test Date:
Name(s) of Testers:
Matthew Graba
Julian Heyman
Dahir Ali
Muhsin Mohamed

Test Case ID#:
Test Description:

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

Automated: yes___ no ___

Results: Pass Fail

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: 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.

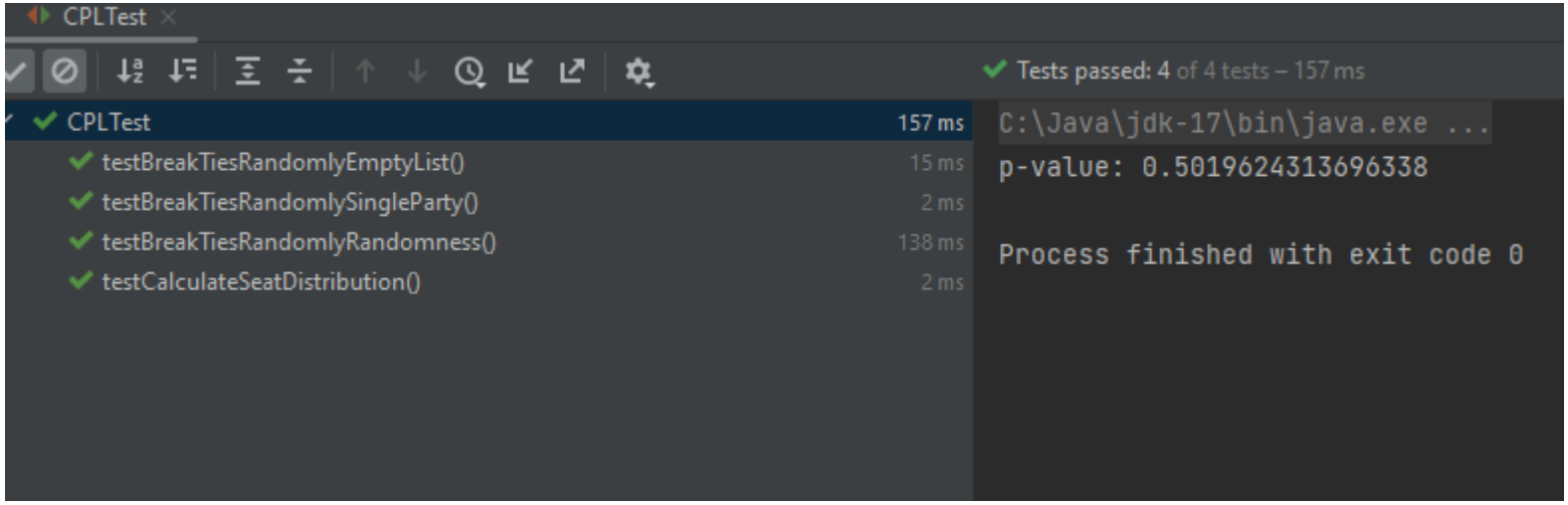
Test Data: What the test data will be for this step. Be clear on what the input data will be. If using a specific file, be clear on the name.

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 notes for you and your team members.



result for the following 4 automated tests

Project Name: Project 1: Voting System **Team#24**

Test Stage: Unit X_ System __

Test Date: 3/26/2023
Name(s) of Testers:
Matthew Graba
Julian Heyman
Dahir Ali
Muhsin Mohamed

Test Case ID#: `testCalculateSeatDistribution()`

Test Description:
this test verifies that parties are getting the correct number seats

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

Automated: yesX__ no ___

Results: Pass X Fail

Preconditions for Test: Maven/JUnit needs to be working

Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes

1	Run File				
2	assertArrayEquals	seats, actseats	actSeats	Seats	pass
3	assertEquals	totalSeats, totalAssignedSeats	totalAssignedSeats	totalSeats	pass
4	if both pass, function passes				

Post condition(s) for Test: Test has passed

Project Name: Project 1: Voting System **Team#24**

Test Stage: Unit X_ System __

Test Date: 3/26/2023

Name(s) of Testers:
Matthew Graba
Julian Heyman
Dahir Ali
Muhsin Mohamed

Test Case ID#: testBreakTiesRandomlyEmptyList()

Test Description:

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

Automated: yes X no

Results: Pass X Fail

Preconditions for Test: Maven/JUnit needs to be working

Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes

1	Run File				
2	assertTrue	sortedtiedParties.isEmpty()	true	true	passes
3					
4					

Post condition(s) for Test: Test has passed

Project Name: Project 1: Voting System — Team#24

Test Stage: Unit __ System __

Test Date: 3/26/2023

Name(s) of Testers:
Matthew Graba
Julian Heyman
Dahir Ali
Muhsin Mohamed

Test Case ID#: `testBreakTiesRandomlySingleParty()`

Test Description:
while a case that shouldnt happen verifies that
if you call a tie break with 1 party you get the party back

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

Automated: yes_X_ no ___

Results: Pass ___X_ Fail _____

Preconditions for Test: Maven/JUnit needs to be working

Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes
1	run File				
2	assertEquals	tiedParties, sortedTiedParties	tiedParties	sortedTiedParties	
3					passes
4					

Post condition(s) for Test: Test has passed

Project Name: Project 1: Voting System **Team#24**

Test Stage: Unit __ System __

Test Date: 3/26/2023
Name(s) of Testers:
Matthew Graba
Julian Heyman
Dahir Ali
Muhsin Mohamed

Test Case ID#: `testBreakTiesRandomlyRandomness()`

Test Description:
tests the randomness selection process against 3 parties conducts the test 100,000 times tallying who wins each time conducts a chi squared test with a .001 sig level to assess likelihood of seeing this outcome, higher the p-value more likely the result is from what we expected (which would be 33,333 wins for each)

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

Automated: yes_X_ no ___

Results: Pass _X___ Fail_____

Preconditions for Test: Maven/JUnit needs to be working

Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes
1	Run file				
2	assertTrue	pValue	???	varies	
3					
4					

Post condition(s) for Test: Test has passed

Project Name: Project 1: Voting System **Team#24**

Test Stage: Unit __ System __

Test Date: 3/26/2023
Name(s) of Testers:
Matthew Graba
Julian Heyman
Dahir Ali
Muhsin Mohamed

Test Case ID#: `testReadFileAndPrintVariables()`

Test Description:

Automated: yes___ no _X_

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: Maven/JUnit needs to be working

Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes
1	Run File				
2	Read in file				
3	Process values				
4	print values				
5	Verify printed values are correct	electionName numberOfParties partyNames numberOfSeats numberOfBallots ballots	CPL 4 PartyA PartyB PartyC PartyD 7 20 1,,, ,1,, ,,1, ,,1, ,,,1 1,,, ,1,, ,,1, ,,1, ,,,1 1,,, ,1,, ,,1, ,,1, ,,,1 1,,, ,1,, ,,1, ,,1, ,,,1 1,,, ,1,, ,,1, ,,1, ,,,1	CPL 4 PartyA PartyB PartyC PartyD 7 20 1,,, ,1,, ,,1, ,,1, ,,,1 1,,, ,1,, ,,1, ,,1, ,,,1 1,,, ,1,, ,,1, ,,1, ,,,1 1,,, ,1,, ,,1, ,,1, ,,,1 1,,, ,1,, ,,1, ,,1, ,,,1	

Post condition(s) for Test: Test has passed