Straightforward Voting System - Testing Document **Team #2**

Test Stage (Unit or System): Unit	Test Date: 4/2/2020
Test Case ID#: droop_quota_test_01	Name(s) of Testers: Taylor O'Neill
Test Description: This test verifies that the Droop Quota works properly when determining the winner of a 2 seat election. This test looks at one case where there is a tie for last place.	Indicate where you are storing the tests (what file) and the name of the method being used: The testfile is ./src/STVDroopControllerTest.java. We are testing the methods ElectionRoutine and InterpretResults
Automated (yes or no): yes	
Results (pass or fail): pass	

Preconditions for Test: Ballots and Candidates are generated in the JUnit method such that there is a tie between candidates B and C for last place. In this method, B is supposed to lose first.

Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes
1	Open STVDroopControllerTest.java				
2	Run testElectionRoutine_TwoWinnersB. This will output an array of candidates when ElectionRoutine is called.		[“D”, “E”, “A”, “C”, “B”] where each letter refers to the corresponding candidate object	[“D”, “E”, “A”, “C”, “B”] where each letter refers to the corresponding candidate object	
3	The InterpretResults method is called and returns a String.		"Election Type: Droop Quota\nNumber of ballots: 15\nNumber of seats: 2\nNumber of candidates: 5\nWinners (in order):\nD\nE\nLosers (from most recent to first):\nA\nB\nC\n"	"Election Type: Droop Quota\nNumber of ballots: 15\nNumber of seats: 2\nNumber of candidates: 5\nWinners (in order):\nD\nE\nLosers (from most recent to first):\nA\nB\nC\n""	

Postconditions for Test: The STVDroopController methods ElectionRoutine and InterpretResults are returning correct values.

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Test Stage (Unit or System): Unit	Test Date: 4/2/2020
Test Case ID#: droop_quota_test_02	Name(s) of Testers: Taylor O'Neill
Test Description: This test verifies that the Droop Quota works properly when determining the winner of a 2 seat election. This test looks at one case where there is a tie for last place.	Indicate where you are storing the tests (what file) and the name of the method being used: The testfile is ./src/STVDroopControllerTest.java. We are testing the methods ElectionRoutine and InterpretResults
Automated (yes or no): yes	
Results (pass or fail): pass	

Preconditions for Test: Ballots and Candidates are generated in the JUnit method such that there is a tie between candidates B and C for last place. In this method, C is supposed to lose first.

Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes
1	Open STVDroopControllerTest.java				
2	Run testElectionRoutine_TwoWinnersC. This will output an array of candidates when ElectionRoutine is called.		[“D”, “E”, “A”, “B”, “C”] where each letter refers to the corresponding candidate object	[“D”, “E”, “A”, “B”, “C”] where each letter refers to the corresponding candidate object	
3	The InterpretResults method is called and returns a String.		"Election Type: Droop Quota\nNumber of ballots: 15\nNumber of seats: 2\nNumber of candidates: 5\nWinners (in order):\nD\nE\nLosers (from most recent to first):\nA\nC\nB\n"	"Election Type: Droop Quota\nNumber of ballots: 15\nNumber of seats: 2\nNumber of candidates: 5\nWinners (in order):\nD\nE\nLosers (from most recent to first):\nA\nC\nB\n""	

Postconditions for Test: The STVDroopController methods ElectionRoutine and InterpretResults are returning correct values.

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Test Stage (Unit or System): Unit	Test Date: 4/2/2020
Test Case ID#: droop_quota_test_01	Name(s) of Testers: Taylor O'Neill
Test Description: This test verifies that the Droop Quota works properly when determining the winner of a 1 seat election	Indicate where you are storing the tests (what file) and the name of the method being used: The testfile is ./src/STVDroopControllerTest.java. We are testing the methods ElectionRoutine and InterpretResults
Automated (yes or no): yes	
Results (pass or fail): pass	

Preconditions for Test: Ballots and Candidates are generated in the JUnit method such that Candidate "D" should win the lone seat in the election.

Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes
1	Open STVDroopControllerTest.java				
2	Run testElectionRoutine_TwoWinnersC. This will output an array of candidates when ElectionRoutine is called.		["D", "E", "A", "C", "B"] where each letter refers to the corresponding candidate object	["D", "E", "A", "C", "B"] where each letter refers to the corresponding candidate object	
3	The InterpretResults method is called and returns a String.		"Election Type: Droop Quota\nNumber of ballots: 15\nNumber of seats: 2\nNumber of candidates: 5\nWinners (in order):\nD\nLosers (from most recent to first):\nE\nA\nB\nC\n"	"Election Type: Droop Quota\nNumber of ballots: 15\nNumber of seats: 2\nNumber of candidates: 5\nWinners (in order):\nD\nE\nLosers (from most recent to first):\nE\nA\nB\nC\n""	

Postconditions for Test: The STVDroopController methods ElectionRoutine and InterpretResults are returning correct values.

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Test Stage (Unit or System): Unit	Test Date: 4/2/2020
Test Case ID#: droop_quota_test_04	Name(s) of Testers: Taylor O'Neill
Test Description: This test verifies that the ElectionName method returns the correct value.	Indicate where you are storing the tests (what file) and the name of the method being used: The testfile is ./src/STVDroopControllerTest.java. We are testing the method ElectionName
Automated (yes or no): yes	
Results (pass or fail): pass	

Preconditions for Test: Ballots and Candidates are generated in the JUnit method such that there is a tie between candidates B and C for last place. In this method, B is supposed to lose first.

Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes
1	Open STVDroopControllerTest.java				
2	Run testElectionName, and verify the string returned is correct.		"STV with Droop Quota"	"STV with Droop Quota"	

Postconditions for Test: The STVDroopController method ElectionName is returning the correct value.