Project Name: Project 1: Voting System	Team# 02		
Test Stage: Unit _x_ System Test Case ID#: EDOVD_1a Test Description: This will test if the method verifyLineIsDigit(String line) correctly verify if the strings with only numbers	Test Date: 3/25/24		
pass	Name(s) of Testers: Bethany Freeman		
	Indicate where are you storing the tests (what file) and the name of the method/functions being used. Project1/src/test/java/ExtractDataOPLTest.java verifyLineIsDigit()		
Automated: yes x no			
Results: Pass x_ Fail			
Preconditions for Test: An ExtractDataOPL object mus	st have been created		

Step	Test Step	Test	Expected	Actual	
#	Description	Data	Result	Result	Notes
1					
2		ExtractDataOPL test01= new ExtractDataOPL(validFile01, "OPL")	2	Object created	
3	Create a String line	String line = "";	variable created	variable created	
4	assert that false is given when test01.verifyLineIsDigit(line) is called	1		true	

Post condition(s) for Test:
VerifyLineIsDigit(String) has been verified to not work with an empty string

Project Name: Project 1: Voting System	Team# 02		
Test Stage: Unit _x_ System Test Case ID#: EDOVD_1b Test Description: This will test if the method verifyLineIsDigit(String line) correctly verify if the strings with only numbers	Test Date: 3/25/24		
pass	Name(s) of Testers: Bethany Freeman		
	Indicate where are you storing the tests (what file) and the name of the method/functions being used. Project1/src/test/java/ExtractDataOPLTest.java verifyLineIsDigit()		
Automated: yes x no			
Results: Passx Fail			
Preconditions for Test: An ExtractDataOPL object mus	st have been created		

Step	Test Step	Test	Expected	Actual	
#	Description	Data	Result	Result	Notes
1					
2		ExtractDataOPL test01= new ExtractDataOPL(validFile01, "OPL")	2	Object created	
3	Create a String line	String line = "1";	variable created	variable created	
4	assert that true is given when test01.verifyLineIsDigit(line) is called			true	

Post condition(s) for Test:VerifyLineIsDigit(String) has been verified to work with a digit

Project Name: Project 1: Voting System	Team# 02		
Test Stage: Unit _x_ System Test Case ID#: EDOVD_1c Test Description: This will test if the method verifyLineIsDigit(String line) correctly verify if the strings with only numbers	Test Date: 3/25/24		
pass	Name(s) of Testers: Bethany Freeman		
	Indicate where are you storing the tests (what file) and the name of the method/functions being used. Project1/src/test/java/ExtractDataOPLTest.java verifyLineIsDigit()		
Automated: yes x no			
Results: Pass x Fail			
Preconditions for Test: An ExtractDataOPL object mus	st have been created		

Step	Test Step	Test	Expected	Actual	
#	Description	Data	Result	Result	Notes
1					
2		ExtractDataOPL test01= new ExtractDataOPL(validFile01, "OPL")	2	Object created	
3	Create a String line	String line = " 1"	variable created	variable created	
	assert that true is given when test01.verifyLineIsDigit(line) is called	1		true	

Post condition(s) for Test:VerifyLineIsDigit(String) has been verified to work with a digit and space

Project Name: Project 1: Voting System	Team# 02
Test Stage: Unit _x_ System Test Case ID#: EDOVD_1d Test Description: This will test if the method verifyLineIsDigit(String line) correctly verify if the strings with only numbers	Test Date: 3/25/24
pass	Name(s) of Testers: Bethany Freeman
	Indicate where are you storing the tests (what file) and the name of the method/functions being used. Project1/src/test/java/ExtractDataOPLTest.java verifyLineIsDigit()
Automated: yes x no	
Results: Pass x_ Fail	
Preconditions for Test: An ExtractDataOPL object mu	st have been created

Step	Test Step	Test	Expected	Actual	
#	Description	Data	Result	Result	Notes
1					
2		ExtractDataOPL test01= new ExtractDataOPL(validFile01, "OPL")	2	Object created	
3	Create a String line	String line = "abc";	variable created	variable created	
4	assert that false is given when test01.verifyLineIsDigit(line) is called	I		true	

Post condition(s) for Test:VerifyLineIsDigit(String) has been verified to not work with a letter string

Project Name: Project 1: Voting System	Team# 02
Test Stage: Unit _x_ System Test Case ID#: EDOVD_1e Test Description: This will test if the method verifyLineIsDigit(String line) correctly verify if the strings with only numbers	Test Date: 3/25/24
pass	Name(s) of Testers: Bethany Freeman
	Indicate where are you storing the tests (what file) and the name of the method/functions being used. Project1/src/test/java/ExtractDataOPLTest.java verifyLineIsDigit()
Automated: yes x no	
Results: Pass x_ Fail	
Preconditions for Test: An ExtractDataOPL object mus	st have been created
2 1000 mail of 2000 mail	35

Step	Test Step	Test	Expected	Actual	
#	Description	Data	Result	Result	Notes
1					
2	Create a new ExtractDataOPL	ExtractDataOPL test01= new ExtractDataOPL(validFile01, "OPL")	2	Object created	
3	Create a String line	String line = "12b";	variable created	variable created	
	assert that false is given when test01.verifyLineIsDigit(line) is called			true	

Post condition(s) for Test:
VerifyLineIsDigit(String) has been verified to not work with a letter and digit string

Project Name: Project 1: Voting System	Team# 02
Test Stage: Unit _x_ System	Test Date: 3/26/24
Test Case ID#: EDOFP_2a Test Description: Format parties into partyCandidates with the correct number of parties passed in	Name(s) of Testers: Bethany Freeman
	Indicate where are you storing the tests (what file) and the name of the method/functions being used. Project1/src/test/java/ExtractDataOPLTest,java formatPartyInformation()
Automated: yes_x_ no	

Preconditions for Test: an initialized partyVotes and candidateVotes, empty. a file that exists. an ExtractDataOPL Object

			Expecte	Actual Result	Notes
Step	Test Step	Test	d		
#	Description	Data	Result		
1	-				
2	Create a new BufferedReader Object	validFile = new BufferedReader(new FileReader(new File("src/test/java/InputFiles/OPLPartyInfo01.txt")))	Object Created	Object Created	
3	Create ExtractDataOPL Object	test01 = new ExtractDataOPL(validFile, "OPL");	Object Created	Object Created	
4	Call formatPartyInformation	partyCandidates = test01.formatPartyInformation(5, partyVotes, candidateVotes);		Object Instantiated	
5		HashMap <string, arraylist<string="">> expected = new HashMap<string, arraylist<string="">>(); expected.put("Pluto", new ArrayList<>(Arrays.asList(" Becky", " Mariah"))); expected.put("Green", new ArrayList<>(Arrays.asList(" Jonah", " Radius", " Louis")));</string,></string,>	Object Created	Object Created	
6		expected, partyCandidates (Arrays.asList(Johan , Radius , Louis))),	true	true	

Post condition(s) for Test:

Results: Pass

Fail

X

formatPartyInformation() given the correct number of parties will correctly format the parties into a Hashmap

Project Name: Project 1: Voting System	Team# 02
Test Stage: Unit _x_ System	Test Date: 3/26/24
Test Case ID#: EDOFP_2b Test Description: Format parties into partyCandidates with the incorrect number of parties passed in	Name(s) of Testers: Bethany Freeman
· ·	Indicate where are you storing the tests (what file) and the name of the method/functions being used. Project1/src/test/java/ExtractDataOPLTest,java formatPartyInformation()
Automated: yes_x_ no	
Results: Pass x Fail	
Preconditions for Test: an initialized partyVotes and candi	dateVotes, empty, a file that exists, an ExtractDataOPL Object

Step # 1	Test Step Description	Test Data	Expecte d Result	Actual Result	Notes
2		validFile = new BufferedReader(new FileReader(new File("src/test/java/InputFiles/OPLPartyInfo01.txt")))		Object Created	
3		test01 = new ExtractDataOPL(validFile, "OPL");	Object	Object Created	
4	Call formatPartyInformation	partyCandidates = test01.formatPartyInformation(0, partyVotes, candidateVotes);		Object Instantiated	
5	Create HashMap <string, arraylist<string="">></string,>	expected = new HashMap <string, arraylist<string="">>();</string,>		Object Created	
6	Assert Expected equals party candidates	expected, partyCandidates	true	true	

Post condition(s) for Test:

formatPartyInformation() given the correct number of parties will correctly format the parties into a Hashmap

Project Name: Project 1: Voting System	Team# 02
Test Stage: Unit _x_ System	Test Date: 3/26/24
Test Case ID#: EDOFP_2c Test Description: Format parties into partyCandidates where a party has no candidates	Name(s) of Testers: Bethany Freeman
	Indicate where are you storing the tests (what file) and the name of the method/functions being used.
	Project1/src/test/java/ExtractDataOPLTest,java formatPartyInformation()
Automated: yes x no	
Results: Pass x Fail	
Preconditions for Test: an initialized partyVotes and candid	lateVotes, empty. a file that exists. an ExtractDataOPL Object

Step #	Test Step Description	Test Data	Expecte d Result	Actual Result	Notes
2	Create a new BufferedReader Object	validFile = new BufferedReader(new FileReader(new File("src\\test\\java\\InputFiles\\OPLPartyInfo02.txt")))	Object Created	Object Created	
3	Create ExtractDataOPL Object	test01 = new ExtractDataOPL(validFile, "OPL");	Object Created	Object Created	
6	Assert formatPartyInformation throws IOException	IOException.class, test01.formatPartyInformation(5, partyVotes, candidateVotes)	true	true	

Post condition(s) for Test: formatPartyInformation() given a party with no candidates will throw an IOException

Project Name: Project 1: Voting System Team# 02

Test Stage: Unit _x System _ Test Date: 3/26/24

Test Case ID#: EDOFBI_3a

Test Description: Format Balloting into partyVotes

for a file with correct Ballot formatting

Indicate where are you storing the tests (what file) and the

name of the method/functions being used. Project1/src/test/java/ExtractDataOPLTest

Name(s) of Testers: Bethany Free.am

formatBallotInformation()

Automated: yes_x no___

Results: Pass x Fail

Preconditions for Test: formatPartyInformation() already proven to work, a file that exists in the relative path given An ExtractDataCPL Object, partyVotes is initialized to an empty ArrayList<>>, candidateVotes is initialized to an empty arrayList

Step	Test Step	Test	Expected	Actual	i
#	Description	Data	Result	Result	Notes
1					ı
2	Create a new BufferedReader Object	validFile = new BufferedReader(new FileReader(new File("src/test/java/InputFiles/OPLBallotTest01.txt")))	Object created	Object Created	
3	Create a new ExtractDataOPL Object		3	Object Created	
	Instantiate partyCandidates using formatPartyInformation()	partyCandidates = test01.formatPartyInformation(5, partyVotes, candidateVotes)	Instantiated	Object Instantiated	
5	Call formatBallotInformation	test01.formatBallotInformation(partyVotes, candidateVotes, partyCandidates);	Nothing	Nothing	
6	Created ArrayList <arraylist<object>> Objects</arraylist<object>			Object Created	
7	Assert expectedPartyVotes equals PartyVotes	expectedPartyVotes, partyVotes	true	true	
8	Assert expectedCandidateVotes equals candidateVotes		true	true	

Post condition(s) for Test:
PartyVotes will have been correctly created based on ballots

Project Name: Project 1: Voting System Team# 02

Test Stage: Unit x System Test Date: 3/26/24

Test Case ID#: EDOFBI_3b Name(s) of Testers: Bethany Free.am

Test Description: Format Balloting into partyVotes

for a file with incorrect Ballot formatting

Indicate where are you storing the tests (what file) and the

name of the method/functions being used. Project1/src/test/java/ExtractDataOPLTest

formatBallotInformation()

Automated: yes x no

Results: Pass x Fail

Preconditions for Test: formatPartyInformation() already proven to work, a file that exists in the relative path given An ExtractDataCPL Object, partyVotes is initialized to an empty ArrayList<>, candidateVotes is initialized to an empty arrayList

Step	Test Step	Test	Expected		N Y .
#	Description	Data	Result	Result	Notes
1					
2	Consider a many Desificant Design design Object	(Object created	3	
	Create a new BufferedReader Object	File("src\\test\\java\\InputFiles\\OPLBallotTest02.txt")))		Created	\vdash
				Object	1
3	Create a new ExtractDataOPL Object	test01 = new ExtractDataOPL(validFile, "OPL");	Created	Created	
	Instantiate partyCandidates using		Object	Object	
4	formatPartyInformation()	partyCandidates = test01.formatPartyInformation(5, partyVotes, candidateVotes)	Instantiated	Instantiated	
		IOException.class, test01.formatBallotInformation(partyVotes,	True	True	
	Assert formatBallotInformation throws	candidate Votes, party Candidates)			i l
5	IOException				i l

Post condition(s) for Test:

formatBallotInformation will have throw an IOException if the ballots are incorrect

Project Name: Project 1: Voting System Team# 02

Test Stage: Unit _x_ System __ Test Date: 3/26/24

Test Case ID#: EDOFBI_3c Name(s) of Testers: Bethany Free.am

Test Description: Format Balloting into partyVotes

for ballots that contain no "1"

Indicate where are you storing the tests (what file) and the

name of the method/functions being used. Project1/src/test/java/ExtractDataOPLTest

formatBallotInformation()

Automated: yes x no

Results: Pass x Fail

Preconditions for Test: formatPartyInformation() already proven to work, a file that exists in the relative path given An ExtractDataCPL Object, partyVotes is initialized to an empty ArrayList<>, candidateVotes is initialized to an empty arrayList

Step # 1	Test Step Description	Test Data	Expected Result	Actual Result	Notes
2	Create a new BufferedReader Object	validFile = new BufferedReader(new FileReader(new File("src\\testing\\java\\InputFiles\\OPLBallotTest03.txt")))	Object created	Object Created	
3	Create a new ExtractDataOPL Object			Object Created	
4	Instantiate partyCandidates using formatPartyInformation()			Object Instantiated	
5		IOException.class, test01.formatBallotInformation(partyVotes, candidateVotes,partyCandidates)	True	True	

Post condition(s) for Test:

formatBallotInformation will have throw an IOException if the ballots are null

Project Name:	Project 1: Voting System	n Team# 0) 2

Test Stage: Unit _x_ System __ Test Date: 3/26/24

Test Case ID#: EDOFBI_3d Name(s) of Testers: Bethany Free.am

Test Description: Format Balloting into partyVotes

for ballots that are null

Indicate where are you storing the tests (what file) and the

name of the method/functions being used. Project1/src/test/java/ExtractDataOPLTest

formatBallotInformation()

Automated: yes x no

Results: Pass x Fail

Preconditions for Test: formatPartyInformation() already proven to work, a file that exists in the relative path given An ExtractDataCPL Object, partyVotes is initialized to an empty ArrayList , candidateVotes is initialized to an empty arrayList

Step	Test Step	Test	Expected	Actual	
#	Description	Data	Result	Result	Notes
1					
2	Create a new BufferedReader Object	validFile = new BufferedReader(new FileReader(new File("src\\testing\\java\\InputFiles\\OPLBallotTest04.txt")))	Object created	Object Created	
3	Create a new ExtractDataOPL Object		-	Object Created	
4	Instantiate partyCandidates using formatPartyInformation()		-	Object Instantiated	
5	create ArrayList <arraylist<object>> Objects</arraylist<object>	expectedPartyVotes = new ArrayList<(); expectedPartyVotes.add(new ArrayList<(Arrays.asList("Pluto", 40052))); expectedPartyVotes.add(new ArrayList<(Arrays.asList("Green", 59948))); expectedCandidateVotes = new ArrayList<(); expectedCandidateVotes.add(new ArrayList<(Arrays.asList("Becky", 20132))); expectedCandidateVotes.add(new ArrayList<(Arrays.asList("Jonah", 20054))); expectedCandidateVotes.add(new ArrayList<(Arrays.asList("Mariah", 19920))); expectedCandidateVotes.add(new ArrayList<(Arrays.asList("Radius", 19826))); expectedCandidateVotes.add(new ArrayList<(Arrays.asList("Louis", 20068)));			
5	Assert expectedPartyVotes equals partyVotes	expectedPartyVotes, partyVotes	True	True	

Post condition(s) for Test:

formatBallotInformation will have throw an IOException if the ballots are null

Project Name: Project 1: Voting System	Team# 02
Test Stage: Unit _x_ System	Test Date: 3/26/24
Test Case ID#: EDOEF_1 Test Description: This tests whether a correct FileData Object was created from extracting information from the file	Name(s) of Testers: Bethany Freeman
	Indicate where are you storing the tests (what file) and the name of the method/functions being used. Project1/src/test/java/ExtractDataOPLTest.java extractFromFile()
Automated: yes x no	
Results: Pass x Fail	
Preconditions for Test: header has already been read, file exist	ts, and there is an ExtractDataOPL Object

Step	Test Step	Test	Expected	Actual	
#	Description	Data	Result	Result	Notes
1					
2	Create new BufferedReader Object	validFile = new BufferedReader(new FileReader(new File("src\test\\java\\InputFiles\\OPLInput01.txt")))	Object Created	Object Created	
3	Create a new ExtractDataOPL	test01 = new ExtractDataOPL(validFile, header);	Object Created	Object Created	
4	Create a new FileData Object	FileData test = test01.extractFromFile();	Object Created	Object Created	
5	Assert test.getElectionType() equals "OPL"	"OPL", test.getElectionType()	true	true	
6	Assert test.getNumberSeats	4, test.getNumberSeats()	true	true	
7	Assert test.getNumberBallots	120000, test.getNumberBallots()	true	true	
8	Assert test.getNumberParties()	5, test.getNumberParties()	true	true	
9	Create HashMap <string, arraylist<string="">></string,>	HashMap <string, arraylist<string="">> expected = new HashMap<string, arraylist<string="">>(); expected.put("Pluto", new ArrayList<>(Arrays.asList(" Becky", " Mariah"))); expected.put("Green", new ArrayList<>(Arrays.asList(" Jonah", " Radius", " Louis")));</string,></string,>	Object Created	Object Created	
10		,,,,,	true	true	
11			Object Created	Object	

		expectedPartyVotes.add(new ArrayList<>(Arrays.asList("Pluto", 48107))); expectedPartyVotes.add(new ArrayList<>(Arrays.asList("Green", 71893)));		Created	
	Assert expectedPartyVotes equals		true	true	
12	test.getPartyVotes	expectedPartyVotes, test.getPartyVotes()			
		ArrayList <arraylist<object>> expectedCandidateVotes = new ArrayList<>();</arraylist<object>	Object Created	Object	
		expectedCandidateVotes.add(new ArrayList<>(Arrays.asList(" Becky",		Created	
		23971)));			
		expectedCandidateVotes.add(new ArrayList<>(Arrays.asList(" Jonah",			
		24014)));			
		expectedCandidateVotes.add(new ArrayList<>(Arrays.asList(" Mariah",			
		24136)));			
		expectedCandidateVotes.add(new ArrayList<>(Arrays.asList(" Radius",			
		24006)));			
		expectedCandidateVotes.add(new ArrayList<>(Arrays.asList(" Louis",			
13	Create ArrayList <arraylist<object>> Object</arraylist<object>	23873)));			
	Assert expectedCandidateVotes equals		true	true	
14	test.getCandidateVotes()	expectedCandidateVotes, test.getCandidateVotes()			

Post condition(s) for Test:A FileData that contains the correct information from the given file

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.