Project Name: Project 1: Voting System	Team# 20
Test Stage: Unit _X_ System	Test Date: 03/14/2021
Test Case ID#: test_AuditLog_1	Name(s) of Testers: Alex, Nikhil, Peter, Andrew
<b>Test Description:</b>	
Creates a test Audit log that prints initial ballot information, the processing of the ballot, and the results.	
	Indicate where are you storing the tests (what file) and the
	name of the method/functions being used.
Automated: yes_X no	FileCreation();
	[] 1 test from fixture_AuditLog
	[ RUN ] fixture_AuditLog.FileCreation
	[ OK ] fixture AuditLog.FileCreation
	(0 ms)
	[] 1 test from fixture AuditLog (0
Results: Pass X Fail	ms total)
<b>Preconditions for Test:</b>	
The audit log is requested for the program	

Step	Test Step	Test	Expected	Actual	
#	Description	Data	Result	Result	Notes
1	Print out ballot information	Log()	Ballot information can be seen		
2	Print out ballot processing	Log()	Ballot processing can be viewed		
3	Print out election results	Log()	Election results are printed		
4					

The audit file is available to be read by the auditor

Project Name: Project 1: Voting System	Team# 20
Test Stage: Unit _X_ System	Test Date: 03/14/2021
Test Case ID#: test_Ballot_1	Name(s) of Testers: Alex, Nikhil, Peter, Andrew
Test Description:	
Creates a unique id for each ballot	
Automated: yes X no	Indicate where are you storing the tests (what file) and the name of the method/functions being used.  BallotUniqueID
	[] 2 tests from fixture_Ballot [ RUN
Results: Pass X Fail	ms total)
Preconditions for Test: Test ballot is created	

Step	Test Step	Test	Expected	Actual	
#	Description	Data	Result	Result	Notes
1	create test ballot	TestBallot()	Ballot is created		
2	create a unique id for test balot	get_id()	Ballot receives an id		
3					
4					

_

The ballot can now be referenced by other parts of the program given ID

Project Name: Project 1: Voting System	Team# 20
Test Stage: Unit _X_ System	Test Date: 03/14/2021
Test Case ID#: test_Ballot_2	Name(s) of Testers: Alex, Nikhil, Peter, Andrew
Test Description:	
Creates database for all ballots after they have an id and generates a lot of ballots to test and make sure each id is unique	
	Indicate where are you storing the tests (what file) and the name of the method/functions being used.
Automated: yes_X_ no	BallotUniqueIDRepeat [] 2 tests from fixture Ballot
	[ RUN ] fixture_Ballot.BallotUniqueID
	OK ] fixture Ballot.BallotUniqueID
	(0 ms)
	[ RUN ]
	fixture_Ballot.BallotUniqueIDRepeat
	[ OK ]
	fixture_Ballot.BallotUniqueIDRepeat (78 ms)
	[] 2 tests from fixture_Ballot (78
	ms total)
Results: Pass X Fail	

Preconditions for Test:	
Each ballot has an assigned id	

Step	Test Step	Test	Expected	Actual	
#	Description	Data	Result	Result	Notes
1	store ballots in a database	std::set <uint64_t> ids</uint64_t>	Ballot id's are now stored in a database		
2	generate many ballots	TestBallot()	Many ballots are generated		
3	check to make sure generated and stored ballots are unique	get_id()	all ballots have unique id's		
4					

Ballots can now be accessed by other parts of the code via the created database

Project Name: Project 1: Voting System	Team# 20
Test Stage: Unit _X_ System	Test Date: 03/14/2021
Test Case ID#: test_IRBallot_1	Name(s) of Testers: Alex, Nikhil, Peter, Andrew
Test Description:	
Tests the basic functionality of the IRBallotCSVParse function	
Automated: yes_X_ no	Indicate where are you storing the tests (what file) and the name of the method/functions being used.  IRBallotCSVParse()
	[] 3 tests from fixture_IRBallot [ RUN ]
Results: Pass X Fail	fixture_IRBallot.IRBallotCSVParse

	[ OK ]
	<pre>fixture_IRBallot.IRBallotCSVParse (0 ms)</pre>
	[ RUN ]
	fixture IRBallot.IRBallotIncrement
	[ OK ]
	<pre>fixture IRBallot.IRBallotIncrement (0 ms)</pre>
	[ RUN ] fixture IRBallot.IRBallotLog
	[ OK ] fixture IRBallot.IRBallotLog (0
	ms)
	[] 3 tests from fixture IRBallot
	(0 ms total)
Preconditions for Test:	
Ballots have been created	

Step	Test Step	Test	Expected	Actual	
#	Description	Data	Result	Result	Notes
1	create a new ballot with election data and store it	IDD 11 4/1 2 2 4)	ballot information is stored correctly		
2	extract the ballot information		ballot information has been read correctly and prints correctly		
3					
4					

Ballot information can now be read and used by other parts of the code.

Project Name: Project 1: Voting System	Team# 20
Test Stage: Unit _X_ System	Test Date: 03/14/2021

Test Case ID#: test_IRBallot_2	Name(s) of Testers: Alex, Nikhil, Peter, Andrew
Test Description:	
Tests the basic functionality of the IRBallotIncrement function	
Automated: yes_X no	Indicate where are you storing the tests (what file) and the name of the method/functions being used.  IRBallotIncrement()
	[] 3 tests from fixture_IRBallot [ RUN
Results: Pass X Fail	<pre>[ RUN</pre>
Preconditions for Test: Ballots have been created	

Step	Test Step	Test	Expected	Actual	
#	Description	Data	Result	Result	Notes
1	create a new ballot with election data and store it	IDD 11 4/1 2 2 4)	ballot information is stored correctly		
	extract the ballot information and increment the choice based on the ballot information		ballot information has been read correctly and prints correctly		
3					
4					

Ballots can now be accessed by other parts of the code via the created database

Project Name: Project 1: Voting System	Team# 20
Test Stage: Unit _X_ System	Test Date: 03/14/2021
Test Case ID#: test_IRBallot_3	Name(s) of Testers: Alex, Nikhil, Peter, Andrew
Test Description:	
Tests the basic functionality of the IRBallotLog function	
Automated: yes X no	Indicate where are you storing the tests (what file) and the name of the method/functions being used.  IRBallotLog()
	[] 3 tests from fixture_IRBallot [RUN ] fixture_IRBallot.IRBallotCSVParse [ OK ] fixture_IRBallot.IRBallotCSVParse (0 ms) [RUN ] fixture_IRBallot.IRBallotIncrement [ OK ] fixture_IRBallot.IRBallotIncrement (0 ms) [RUN ] fixture_IRBallot.IRBallotLog [ OK ] fixture_IRBallot.IRBallotLog (0 ms) [] 3 tests from fixture_IRBallot (0 ms total)
Results: Pass X Fail	
Preconditions for Test: Ballots have been created	

Step	Test Step	Test	Expected	Actual	
#	Description	Data	Result	Result	Notes
1	create a new ballot with election data and store it	IRBallot(1,2,3,4)	ballot information is stored correctly		
2	stores ballot information		ballot information has been read correctly and prints correctly		
	takes stored ballot information and makes it accessible to log		ballot information is printed to audit log		
3	to the audit file	log()the			
4					
				_	

Post condition(s) for Test
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Audit log prints ballot information

<b>Project Name: Project 1: Voting System</b>	Team# 20
Test Stage: Unit _X_ System	Test Date: 03/14/2021
Test Case ID#: test_IRElection_1	Name(s) of Testers: Alex, Nikhil, Peter, Andrew
Test Description:	
Tests if the IRElection runs properly	
	Indicate where are you storing the tests (what file) and the
	name of the method/functions being used.
Automated: yes_X no	IRElection()
	[] 2 tests from fixture_IRElection
	[ RUN ]
	fixture_IRElection.IRElectionSRSExample
	The winner of the election is Rosen of party
	D with 50% of the votes
	Kleinberg had 0% of the votes.
	Chou had 33% of the votes.
Results: Pass X Fail	Royce had 16% of the votes.

	[ OK ] fixture IRElection.IRElectionSRSExample (1
	ms)
<b>Preconditions for Test:</b>	
IR Election has been selected	

Step	Test Step	Test	Expected	Actual	
#	Description	Data	Result	Result	Notes
1	start new IRElection	IRElection()	new IR Election has been started		
2	run the IR Election	0	IR Election runs without any errors		
3					
4					

Election results can be viewed from IR Election

Project Name: Project 1: Voting System	Team# 20
Test Stage: Unit _X_ System	Test Date: 03/14/2021
Test Case ID#: test_IRElection_2	Name(s) of Testers: Alex, Nikhil, Peter, Andrew
Test Description:	
Tests if the IRElection runs properly with random values/candidates	
	Indicate where are you storing the tests (what file) and the name of the method/functions being used.
Automated: yes_X no	IRElection()
Results: Pass X Fail	[ RUN ]

fixture IRElection.IRElectionRandom The winner of the election is Candidate2Test of party 2 with 50% of the votes CandidatelTest had 43% of the votes. Candidate3Test had 44% of the votes. Candidate4Test had 40% of the votes. Candidate5Test had 43% of the votes. Candidate6Test had 42% of the votes. Candidate7Test had 45% of the votes. Candidate8Test had 44% of the votes. Candidate9Test had 44% of the votes. Candidate10Test1 had 4% of the votes. Candidate11Test1 had 40% of the votes. Candidate12Test1 had 39% of the votes. Candidate13Test1 had 45% of the votes. Candidate14Test1 had 44% of the votes. Candidate15Test1 had 39% of the votes. Candidate16Test1 had 45% of the votes. Candidate17Test1 had 48% of the votes. Candidate18Test1 had 46% of the votes. Candidate19Test1 had 41% of the votes. Candidate20Test2 had 49% of the votes. Candidate21Test2 had 45% of the votes. Candidate22Test2 had 42% of the votes. Candidate23Test2 had 49% of the votes. Candidate24Test2 had 40% of the votes. Candidate25Test2 had 47% of the votes. OK 1 fixture IRElection.IRElectionRandom (8253 ms)

#### **Preconditions for Test:**

IR Election has been selected

Step	Test Step	Test	Expected	Actual	
#	Description	Data	Result	Result	Notes
1	start new IRElection	IRElection()	new IR Election has been started		
2	run the IR Election		IR Election runs without any errors		

3			
4			

Election results can be viewed from IR Election

Project Name: Project 1: Voting System	<b>Team# 20</b>
Test Stage: Unit _X_ System	Test Date: 03/14/2021
Test Case ID#: test_MediaReport_1	Name(s) of Testers: Alex, Nikhil, Peter, Andrew
Test Description:	
Tests if information from the election and audit log can be printed in a media report	
Automated: yes_X no	Indicate where are you storing the tests (what file) and the name of the method/functions being used.  MediaReport()
v <u> </u>	[] 1 test from fixture_MediaReport [ RUN ]
	<pre>fixture_MediaReport.MediaReportFileCreation [          OK ]</pre>
	fixture_MediaReport.MediaReportFileCreation (1 ms)
Results: Pass X Fail	[] 1 test from fixture_MediaReport (1 ms total)
Preconditions for Test:	
The election has finished	

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

1	create media report	MediaReport()	A media	
2	write to the media report		election results have been written to the media report and are correct	
3				
4				

Election results have been shared with the media

Project Name: Project 1: Voting System	Team# 20
Test Stage: Unit _X_ System	Test Date: 03/14/2021
Test Case ID#: test_OPLBallot_1	Name(s) of Testers: Alex, Nikhil, Peter, Andrew
Test Description:	
Creates an OPL ballot that is a CSV and parses a single choice from the ballot	
	Indicate where are you storing the tests (what file) and the name of the method/functions being used.
Automated: yes_X no	OPLBallot()
	<pre>[ RUN ] fixture_OPLBallot.OPLBallotCSVParse_1choice [ OK ] fixture OPLBallot.OPLBallotCSVParse 1choice</pre>
Results: Pass X Fail	(0 ms)
Preconditions for Test:	
OPL election is selected	

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

1	Create OPL Ballot	OPLBallot()	OPL Ballot has been created	
2	read information from ballot	get_choice()	ballot information has been read	
3				
4				

Ballot information can be viewed and used by other parts of the code

Project Name: Project 1: Voting System	Team# 20
Test Stage: Unit _X_ System	Test Date: 03/14/2021
Test Case ID#: test_OPLBallot_2	Name(s) of Testers: Alex, Nikhil, Peter, Andrew
Test Description:	[ RUN ] fixture_OPLBallot.OPLBallotCSVParse_Ochoice [ OK ]
Creates an OPL ballot that is a CSV and parses the file with no choices from the ballot	<pre>fixture_OPLBallot.OPLBallotCSVParse_Ochoice (0 ms)</pre>
	Indicate where are you storing the tests (what file) and the name of the method/functions being used.
Automated: yes_X no	OPLBallot()
Results: Pass X Fail	
Preconditions for Test: OPL election is selected	

Step	Test Step	Test	Expected	Actual	
#	Description	Data	Result	Result	Notes
1	Create OPL Ballot	OPLBallot()	OPL Ballot has been created		
2	read information from ballot	get_choice()	ballot information has been read		
3		_			

4			

Ballot information can be viewed and used by other parts of the code

<b>Project Name: Project 1: Voting System</b>	<b>Team# 20</b>
Test Stage: Unit _X_ System	Test Date: 03/14/2021
Test Case ID#: test_OPLBallot_3	Name(s) of Testers: Alex, Nikhil, Peter, Andrew
Test Description:	
Creates an OPL ballot and logs a single choice from the ballot	
Automated: yes_X no	Indicate where are you storing the tests (what file) and the name of the method/functions being used.  OPLBallot()
Results: Pass X Fail	[ RUN ] fixture_OPLBallot.OPLBallotLogOnceChoice [ OK ] fixture_OPLBallot.OPLBallotLogOnceChoice (0 ms)
Preconditions for Test: OPL election is selected	

Step	Test Step	Test	Expected	Actual	
#	Description	Data	Result	Result	Notes
1	Create OPL Ballot	OPLBallot()	OPL Ballot has been created		
2	retrieve ballot with information		ballot has been selected and information has been read		
3	log ballot infromation		ballot information can be viewed in the audit log		
4					

Audit log results are printed

ate: 03/14/2021 s) of Testers: Alex, Nikhil, Peter, Andrew
s) of Testers: Alex, Nikhil, Peter, Andrew
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te where are you storing the tests (what file) and the of the method/functions being used.
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Step	Test Step	Test	Expected	Actual	
#	Description	Data	Result	Result	Notes
1	Create OPL Ballot	OPLBallot()	OPL Ballot has been created		
2	retrieve ballot with information		ballot has been selected and information has been read		
3	log ballot infromation		ballot information can be viewed in the audit log		
4					

Audit log results are printed

Project Name: Project 1: Voting System	Team# 20
Test Stage: Unit _X_ System	Test Date: 03/14/2021
Test Case ID#: test_OPLCandidate_1	Name(s) of Testers: Alex, Nikhil, Peter, Andrew
Test Description:	
Creates an empty OPLCandidate	
	Indicate where are you storing the tests (what file) and the name of the method/functions being used.
Automated: yes_X no	OPLCandidate()
	[ RUN ] fixture_OPLCandidate.OPLCandidate_empty_log [ OK ] fixture_OPLCandidate.OPLCandidate_empty_log
Results: Pass X Fail	(0 ms)
Preconditions for Test: OPL election is selected	

Step	Test Step	Test	Expected	Actual	
#	Description	Data	Result	Result	Notes
1	Create OPL Candidate	OPLCandidate()	OPL Candidate has been created		
			Candidate information can be		
			viewed from the audit log -		
			expected to be of the form:		
2	log candidate information	log()	"Candidate <x>: ballots = []"</x>		

Post condition(s) for Test:		

Audit log results are printed

<b>Project Name: Project 1: Voting System</b>	Team# 20
Test Stage: Unit _X_ System	Test Date: 03/14/2021
Test Case ID#: test_OPLCandidate_2	Name(s) of Testers: Alex, Nikhil, Peter, Andrew
Test Description:	
Creates an OPL candidate with no votes	
Automated: yes X no	Indicate where you are storing the tests (what file) and the name of the method/functions being used.  OPLCandidate
Automateu. yes_1x no	[ RUN ] fixture_OPLCandidate.OPLCandidate_empty_gettally [ OK ]
Results: Pass X Fail	fixture_OPLCandidate.OPLCandidate_empty_gettally (0 ms)
Preconditions for Test: OPL election is selected	

Step	Test Step	Test	Expected	Actual	
#	Description	Data	Result	Result	Notes
1	Create OPL candidate	OPLCandidate()	OPL candidate has been created		
2	retrieve the number of votes given to a candidate		the number of votes that have been read for a particular candidate - 0	0	
3					
4					

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

Candidate wins election

<b>Project Name: Project 1: Voting System</b>	Team# 20
Test Stage: Unit _X_ System	Test Date: 03/14/2021
Test Case ID#: test_OPLCandidate_3	Name(s) of Testers: Alex, Nikhil, Peter, Andrew
<b>Test Description:</b>	
Creates an OPL candidate who has votes	
	Indicate where are you storing the tests (what file) and the name of the method/functions being used.
Automated: yes_X no	OPLCandidate
	[ RUN ] fixture_OPLCandidate.OPLCandidate_gettally [ OK ] fixture OPLCandidate.OPLCandidate gettally (0
Results: Pass X Fail	ms)
D.,	
Preconditions for Test: OPL election is selected	

Step	Test Step	Test	Expected	Actual	
#	Description	Data	Result	Result	Notes
1	Create OPL candidate	OPLCandidate()	OPL candidate has been created		
2	retrieve the number of votes given to a candidate		the number of votes that have been read for a particular candidate		
3					
4					

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

Candidate wins election

Project Name: Project 1: Voting System	Team# 20
Test Stage: Unit _X_ System	Test Date: 03/14/2021
Test Case ID#: test_OPL_Party_1	Name(s) of Testers: Alex, Nikhil, Peter, Andrew
Test Description:	
Creates an OPL party with candidates in the party	
Automated: yes_X_ no	Indicate where are you storing the tests (what file) and the name of the method/functions being used.  OPLParty()
Results: Pass X Fail	[ RUN ] fixture_OPLParty.OPLParty_getname [ OK ] fixture_OPLParty.OPLParty_getname (0 ms)
Preconditions for Test:	
OPL election is selected	

Step	Test Step	Test	Expected	Actual	
#	Description	Data	Result	Result	Notes
1	Create OPL party	OPLParty()	OPL party has been created		
2	retrieve the names of the candidates in the party		the name of the candidates in the party has been received		
3					
4					

# Post condition(s) for Test:

Project Name: Project 1: Voting System	Team# 20
Test Stage: Unit _X_ System	Test Date: 03/14/2021
Test Case ID#: test_OPL_Party_2	Name(s) of Testers: Alex, Nikhil, Peter, Andrew
Test Description:	
Creates an OPL party with candidates in the party and votes for each candidate and party	
	Indicate where are you storing the tests (what file) and the name of the method/functions being used.
Automated: yes_X no	OPLParty()
	[ RUN ] fixture_OPLParty.OPLParty_gettally
Results: Pass X Fail	[ OK ] fixture_OPLParty.OPLParty_gettally (0 ms)
Preconditions for Test:	
OPL election is selected	

Step	Test Step	Test	Expected	Actual	
#	Description	Data	Result	Result	Notes
1	Create OPL party	OPLParty()	OPL party has been created		
2	retrieve votes of each candidate		votes for each candidate have		
	in a party	get_tally()	been read		
3					
4					

or Test:

Project Name: Project 1: Voting System	Team# 20
Test Stage: Unit _X_ System	Test Date: 03/14/2021
Test Case ID#: test_OPL_Party_3	Name(s) of Testers: Alex, Nikhil, Peter, Andrew
<b>Test Description:</b>	
Creates an OPL party with candidates in the party and votes for each candidate and party	
	Indicate where are you storing the tests (what file) and the
Automated: yes_X no	name of the method/functions being used. OPLParty()
Results: Pass X Fail	[ RUN ] fixture_OPLParty.OPLParty_log [ OK ] fixture_OPLParty.OPLParty_log (0 ms)
Preconditions for Test: OPL election is selected	

Step	Test Step	Test	Expected	Actual	
#	Description	Data	Result	Result	Notes
1	Create OPL party	OPLParty()	OPL party has been created		
2	Retrieve record of candidates and ballots associated with party		Votes for specific candidates in a party are received and displayed		
3					
4					

Post condition(s) for Test
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<b>Project Name:</b>	<b>Project 1: Voting System</b>	<b>Team# 20</b>

Test Stage: Unit _X_ System	Test Date: 03/14/2021
Test Case ID#: test_OPL_Party_4	Name(s) of Testers: Alex, Nikhil, Peter, Andrew
Test Description:	
Creates an OPL party with candidates in the party	
	Indicate where are you storing the tests (what file) and the name of the method/functions being used.
Automated: yes_X no	OPLParty()
	[RUN ] fixture OPLParty.OPLParty 1party 1candidate
	OK   fixture OPLParty.OPLParty 1party 1candidate (0
Results: Pass X Fail	ms)
Preconditions for Test:	
OPL election is selected	
Of L diection is sciented	

Step	Test Step	Test	Expected	Actual	
#	Description	Data	Result	Result	Notes
1	Create OPL party	OPLParty()	OPL party has been created		
2	retrieve the votes of the candidates in the party		the name of the candidates in the party has been received		
3					
4					

<b>Project Name: Project 1: Voting System</b>	Team# 20
Test Stage: Unit _X_ System	Test Date: 03/14/2021

Test Case ID#: test_OPL_Party_5	Name(s) of Testers: Alex, Nikhil, Peter, Andrew
Test Description:	
Creates an OPL party with 1 candidate, 1 party, and 3 ballots	
	Indicate where are you storing the tests (what file) and the
	name of the method/functions being used.
Automated: yes_X no	OPLParty()
	[ RUN ]
	fixture_OPLParty.OPLParty_1party_1candidate_3ballots
	[OK]
	fixture OPLParty.OPLParty 1party 1candidate 3ballots (0
Results: Pass X Fail	ms)
Preconditions for Test:	
OPL election is selected	

Step	Test Step	Test	Expected	Actual	
#	Description	Data	Result	Result	Notes
1	Create OPL party	OPLParty()	OPL party has been created		
2	create new candidate	OPLCandidate()	name of the candidate is read		
			candidate has been added to a		
3	add the candidate to a party	add_candidate()	party		
	create ballots with voter		ballots have been created		
4	information	OPLBallot()			
	add ballots to a specific		ballots have been correctly		
5	candidate based on	add_ballot()	assigned to the candidate		

Post condition(s) for Test:
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Candidates party wins the election

Project Name: Project 1: Voting System Team# 20

	-
Test Stage: Unit _X_ System	Test Date: 03/14/2021
Test Case ID#: test_OPL_Election_1	Name(s) of Testers: Alex, Nikhil, Peter, Andrew
Test Description:	
Creates an OPL party with 1 candidate, 1 party, and 3 ballots	
	Indicate where are you storing the tests (what file) and the name of the method/functions being used.
Automated: yes_X no	OPLParty()
	[ RUN ] fixture_OPLParty.OPLParty_1party_1candidate_3ballots
	fixture_OPLParty.OPLParty_1party_1candidate_3ballots (0
Results: Pass X Fail	ms)
Preconditions for Test:	
OPL election is selected	

Step	Test Step	Test	Expected	Actual	
#	Description	Data	Result	Result	Notes
1	Create OPL party	OPLParty()	OPL party has been created		
2	create new candidate	OPLCandidate()	name of the candidate is read		
3	add the candidate to a party	11 11 1 0	candidate has been added to a party		
4	create ballots with voter information	OPLBallot()	information		
5	add ballots to a specific cand				

Post	condition	(s)	for	Test:

Candidates party wins the election

Project Name: Project 1: Voting System Team# 20

Test Stage: Unit _X_ System	Test Date: 03/14/2021
Test Case ID#: test_TieBreaker_1	Name(s) of Testers: Alex, Nikhil, Peter, Andrew
Test Description:	
Checks to see if the tie breaker function is functional in resolving ties	
	Indicate where are you storing the tests (what file) and the
	name of the method/functions being used.
Automated: yes_X no	TieBreaker()
	[ RUN ]
	fixture OPLParty.OPLParty 1party 1candidate 3ballots
	OK ]
	fixture OPLParty.OPLParty 1party 1candidate 3ballots (0
Results: Pass X Fail	
Acsuits. 1 ass _A Faii	ms)
<b>Preconditions for Test:</b>	
A tie in the election occurs	

Step	Test Step	Test	Expected	Actual	
#	Description	Data	Result	Result	Notes
	creates a loop to go through coin flips and check to see if the function can resolve the tie		function resolves tie and assigns winner		
1	properly	resolve_tie()			
2					
3					
4					
5					

i ost comannomest for i est	Post c	ondition(	s) fo	r Test:
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Winner is announced

Project Name: Project 1: Voting System	Team# 20
Test Stage: Unit _X_ System	Test Date: 03/14/2021
Test Case ID#: test_OPLElection_1	Name(s) of Testers: Alex, Nikhil, Peter, Andrew
Test Description:	
Creates an OPL Election object to run on a ballot csv file	
	Indicate where are you storing the tests (what file) and the name of the method/functions being used.
Automated: yes_X no	OPLElection()
Posults: Poss Fail V	[ RUN ] fixture_OPLBallot.OPLBallotCSVParse_1choice [ OK ] fixture_OPLBallot.OPLBallotCSVParse_1choice (0 ms)
Results: Pass Fail X	(O ms)
Preconditions for Test: OPL election is selected	

Step	Test Step	Test	Expected	Actual	
#	Description	Data	Result	Result	Notes
1	Create OPL Election	OPLElection()	OPL Election has been created		
2	Ru() method	get_choice()	ballot information has been read		
3					
4					