**PBI-MultipleFile**

**Regression System Testing**

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| The PBI, the Task Description (from Sprint Log) with Unique Testing Number:  PBI-MultipleFiles, regression testing for multiple files code, 0 |
| Team Member(s) Responsible: Roman Woolery |
| Inputs: ./test |
| Tests: Ran unit testing from project 1 with ./test |
| Outputs:  [==========] Running 28 tests from 5 test suites.  [----------] Global test environment set-up.  [----------] 10 tests from OPLTest  [ RUN ] OPLTest.seatSetterGetter1  [ OK ] OPLTest.seatSetterGetter1 (0 ms)  [ RUN ] OPLTest.partyVoteSetterGetter1  [ OK ] OPLTest.partyVoteSetterGetter1 (0 ms)  [ RUN ] OPLTest.firstSeatSetterGetter1  [ OK ] OPLTest.firstSeatSetterGetter1 (0 ms)  [ RUN ] OPLTest.secondSeatSetterGetter1  [ OK ] OPLTest.secondSeatSetterGetter1 (0 ms)  [ RUN ] OPLTest.candListSetterGetter1  [ OK ] OPLTest.candListSetterGetter1 (0 ms)  [ RUN ] OPLTest.quotaSetterGetter1  [ OK ] OPLTest.quotaSetterGetter1 (1 ms)  [ RUN ] OPLTest.calculateSeatAllocation1  [ OK ] OPLTest.calculateSeatAllocation1 (2 ms)  [ RUN ] OPLTest.countVote1  [ OK ] OPLTest.countVote1 (3 ms)  [ RUN ] OPLTest.countVote2  [ OK ] OPLTest.countVote2 (4 ms)  [ RUN ] OPLTest.countVote3  [ OK ] OPLTest.countVote3 (3 ms)  [----------] 10 tests from OPLTest (13 ms total)  [----------] 7 tests from IRTest  [ RUN ] IRTest.winnerSetterGetter1  [ OK ] IRTest.winnerSetterGetter1 (0 ms)  [ RUN ] IRTest.loserSetterGetter1  [ OK ] IRTest.loserSetterGetter1 (0 ms)  [ RUN ] IRTest.countVote1  [ OK ] IRTest.countVote1 (1 ms)  [ RUN ] IRTest.countVote2  [ OK ] IRTest.countVote2 (2 ms)  [ RUN ] IRTest.countVote3  [ OK ] IRTest.countVote3 (3 ms)  [ RUN ] IRTest.countVote4  [ OK ] IRTest.countVote4 (3 ms)  [ RUN ] IRTest.countVote5  ir\_test.cpp:187: Failure  Expected equality of these values:  actual  Which is: { { 4, 2, 2, 2 }, { 5, 2, 0, 3 }, { 5, 0, 0, 5 } }  expected1  Which is: { { 4, 2, 2, 2 }, { 4, 0, 2, 4 }, { 5, 0, 0, 5 } }  ir\_test.cpp:189: Failure  Expected equality of these values:  actual  Which is: { { 4, 2, 2, 2 }, { 5, 2, 0, 3 }, { 5, 0, 0, 5 } }  expected3  Which is: { { 4, 2, 2, 2 }, { 5, 3, 2, 0 }, { 6, 3, 0, 0 } }  ir\_test.cpp:191: Failure  Expected equality of these values:  ir->getCandidateList()[3]  Which is: 0x559bb365edc0  ir->getWinner()  Which is: 0x559bb365f310  [ FAILED ] IRTest.countVote5 (4 ms)  [----------] 7 tests from IRTest (13 ms total)  [----------] 5 tests from CandidateTest  [ RUN ] CandidateTest.nameSetterGetter1  [ OK ] CandidateTest.nameSetterGetter1 (0 ms)  [ RUN ] CandidateTest.partySetterGetter1  [ OK ] CandidateTest.partySetterGetter1 (0 ms)  [ RUN ] CandidateTest.votesSetterGetter1  [ OK ] CandidateTest.votesSetterGetter1 (0 ms)  [ RUN ] CandidateTest.eliminatedSetterGetter1  [ OK ] CandidateTest.eliminatedSetterGetter1 (0 ms)  [ RUN ] CandidateTest.ballotListSetterGetter1  [ OK ] CandidateTest.ballotListSetterGetter1 (0 ms)  [----------] 5 tests from CandidateTest (0 ms total)  [----------] 2 tests from BallotTest  [ RUN ] BallotTest.rankSetterGetter1  [ OK ] BallotTest.rankSetterGetter1 (0 ms)  [ RUN ] BallotTest.voteSetterGetter1  [ OK ] BallotTest.voteSetterGetter1 (0 ms)  [----------] 2 tests from BallotTest (0 ms total)  [----------] 4 tests from ElectionTest  [ RUN ] ElectionTest.typeSetterGetter1  [ OK ] ElectionTest.typeSetterGetter1 (0 ms)  [ RUN ] ElectionTest.numBallotsSetterGetter1  [ OK ] ElectionTest.numBallotsSetterGetter1 (0 ms)  [ RUN ] ElectionTest.numCandidatesSetterGetter1  [ OK ] ElectionTest.numCandidatesSetterGetter1 (0 ms)  [ RUN ] ElectionTest.candSetterGetter1  [ OK ] ElectionTest.candSetterGetter1 (0 ms)  [----------] 4 tests from ElectionTest (1 ms total)  [----------] Global test environment tear-down  [==========] 28 tests from 5 test suites ran. (27 ms total)  [ PASSED ] 27 tests.  [ FAILED ] 1 test, listed below:  [ FAILED ] IRTest.countVote5  1 FAILED TEST |
| Passed (Because it’s consistent with project 1’s results. A failed test was expected) |
| Date: 4/21/2021 |

**System Tests**

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| The PBI, the Task Description (from Sprint Log) with Unique Testing Number:  PBI-MultipleFiles, regression testing for multiple files code, 1 |
| Team Member(s) Responsible: Roman Woolery |
| Inputs: IRsystest1.csv |
| Tests: Regression system test for IRsystest1 |
| Outputs:  Election type: IR  Winner:  Rosen  All Candidates:  Rosen with 4  Kleinberg with 0  Chou with 2  Royce with 0  The election results have been saved to DisplayResult.txt  Counting ballots took 8 seconds to complete |
| Passed |
| Date: 4/21/2021 |

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| The PBI, the Task Description (from Sprint Log) with Unique Testing Number:  PBI-MultipleFiles, regression testing for multiple files code, 2 |
| Team Member(s) Responsible: Roman Woolery |
| Inputs: IRsystestDemWin.csv |
| Tests: Regression system test for IRsystestDemWin |
| Outputs:  IRsystestDemWin.csv  IRsystestDemWin.csv  Election type: IR  Winner:  Rosen  All Candidates:  Rosen with 100  Kleinberg with 0  Chou with 0  Royce with 0  The election results have been saved to DisplayResult.txt  Counting ballots took 9 seconds to complete |
| Passed |
| Date: 4/21/2021 |

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| The PBI, the Task Description (from Sprint Log) with Unique Testing Number:  PBI-MultipleFiles, regression testing for multiple files code, 3 |
| Team Member(s) Responsible: Roman Woolery |
| Inputs: IRsystestRepWin.csv |
| Tests: Regression system test for IRsystestRepWin |
| Outputs:  Election type: IR  Winner:  Kleinberg  All Candidates:  Rosen with 0  Kleinberg with 100  Chou with 0  Royce with 0  The election results have been saved to DisplayResult.txt  Counting ballots took 6 seconds to complete |
| Passed |
| Date: 4/21/2021 |

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| The PBI, the Task Description (from Sprint Log) with Unique Testing Number:  PBI-MultipleFiles, regression testing for multiple files code, 4 |
| Team Member(s) Responsible: Roman Woolery |
| Inputs: IRsystestIndWin.csv |
| Tests: Regression system test for IRsystestIndWin |
| Outputs:  Election type: IR  Winner:  Chou  All Candidates:  Rosen with 0  Kleinberg with 0  Chou with 100  Royce with 0  The election results have been saved to DisplayResult.txt  Counting ballots took 8 seconds to complete |
| Passed |
| Date: 4/21/2021 |

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| The PBI, the Task Description (from Sprint Log) with Unique Testing Number:  PBI-MultipleFiles, regression testing for multiple files code, 5 |
| Team Member(s) Responsible: Roman Woolery |
| Inputs: IRsystestLWin.csv |
| Tests: Regression system test for IRsystestLWin |
| Outputs:  Election type: IR  Winner:  Royce  All Candidates:  Rosen with 0  Kleinberg with 0  Chou with 0  Royce with 100  The election results have been saved to DisplayResult.txt  Counting ballots took 5 seconds to complete |
| Passed |
| Date: 4/21/2021 |

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| The PBI, the Task Description (from Sprint Log) with Unique Testing Number:  PBI-MultipleFiles, regression testing for multiple files code, 6 |
| Team Member(s) Responsible: Roman Woolery |
| Inputs: OPLsystest1.csv |
| Tests: Regression system test for OPLsystest1 |
| Outputs:  Election type: OPL  Seats: 3  Number of Candidates: 6  Number of Ballots: 9  Winners:  Borg with 2  Pike with 3  Foster with 2  All Candidates:  Pike with 3  Foster with 2  Deutsch with 0  Borg with 2  Jones with 1  Smith with 1  The election results have been saved to DisplayResult.txt  Counting ballots took 8 seconds to complete |
| Passed |
| Date: 4/21/2021 |

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| The PBI, the Task Description (from Sprint Log) with Unique Testing Number:  PBI-MultipleFiles, regression testing for multiple files code, 7 |
| Team Member(s) Responsible: Roman Woolery |
| Inputs: OPLsystestDemWin.csv |
| Tests: Regression system test for OPLsystestDemWin |
| Outputs:  Calling CoinToss. Independent who win: Smith, seatLeft: 1  Election type: OPL  Seats: 3  Number of Candidates: 5  Number of Ballots: 1674  Winners:  Craig with 0  Joe with 1674  Smith with 0  All Candidates:  Joe with 1674  Craig with 0  Kevin with 0  Smith with 0  Armada with 0  The election results have been saved to DisplayResult.txt  Counting ballots took 63 seconds to complete |
| Passed |
| Date: 4/21/2021 |

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| The PBI, the Task Description (from Sprint Log) with Unique Testing Number:  PBI-MultipleFiles, regression testing for multiple files code, 8 |
| Team Member(s) Responsible: Roman Woolery |
| Inputs: OPLsystestRepWin.csv |
| Tests: Regression system test for OPLsystestRepWin |
| Outputs:  Calling CoinToss. Independent who win: Kevin, seatLeft: 1  Election type: OPL  Seats: 3  Number of Candidates: 5  Number of Ballots: 1674  Winners:  Craig with 1674  Joe with 0  Kevin with 0  All Candidates:  Joe with 0  Craig with 1674  Kevin with 0  Smith with 0  Armada with 0  The election results have been saved to DisplayResult.txt  Counting ballots took 9 seconds to complete |
| Passed |
| Date: 4/21/2021 |

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| The PBI, the Task Description (from Sprint Log) with Unique Testing Number:  PBI-MultipleFiles, regression testing for multiple files code, 9 |
| Team Member(s) Responsible: Roman Woolery |
| Inputs: OPLsystestIndWin.csv |
| Tests: Regression system test for OPLsystestIndWin |
| Outputs:  Election type: OPL  Seats: 3  Number of Candidates: 5  Number of Ballots: 912  Winners:  Armada with 282  Smith with 257  Kevin with 245  All Candidates:  Joe with 82  Craig with 46  Kevin with 245  Smith with 257  Armada with 282  The election results have been saved to DisplayResult.txt  Counting ballots took 18 seconds to complete |
| Passed |
| Date: 4/21/2021 |

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| The PBI, the Task Description (from Sprint Log) with Unique Testing Number:  PBI-MultipleFiles, regression testing for multiple files code, 10 |
| Team Member(s) Responsible: Roman Woolery |
| Inputs: OPLsystestManyCand.csv |
| Tests: Regression system test for OPLsystestManyCand |
| Outputs:  Calling CoinToss. Republicans who win: Deutsch, seatLeft: 1  Calling CoinToss. Democrats who win: Foster, seatLeft: 1  Calling CoinToss. Independent who win: Craig, seatLeft: 1  Election type: OPL  Seats: 5  Number of Candidates: 10  Number of Ballots: 40  Winners:  Deutsch with 3  Pike with 7  Dee with 6  Foster with 4  Craig with 3  All Candidates:  Pike with 7  Foster with 4  Charlie with 4  Baker with 4  Dee with 6  Deutsch with 3  Borg with 3  Jones with 3  Smith with 3  Craig with 3  The election results have been saved to DisplayResult.txt  Counting ballots took 13 seconds to complete |
| Passed |
| Date: 4/21/2021 |

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| The PBI, the Task Description (from Sprint Log) with Unique Testing Number:  PBI-MultipleFiles, regression testing for multiple files code, 11 |
| Team Member(s) Responsible: Roman Woolery |
| Inputs: OPLsystestManyVotes.csv |
| Tests: Regression system test for OPLsystestManyVotes |
| Outputs:  Election type: OPL  Seats: 3  Number of Candidates: 5  Number of Ballots: 25200  Winners:  Armada with 10080  Smith with 7560  Kevin with 2520  All Candidates:  Joe with 2520  Craig with 2520  Kevin with 2520  Smith with 7560  Armada with 10080  The election results have been saved to DisplayResult.txt  Counting ballots took 14 seconds to complete |
| Passed |
| Date: 4/21/2021 |

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| The PBI, the Task Description (from Sprint Log) with Unique Testing Number:  PBI-MultipleFiles, regression testing for multiple files code, 12 |
| Team Member(s) Responsible: Roman Woolery |
| Inputs: OPLsystestNoSeats.csv |
| Tests: Regression system test for OPLsystestNoSeats |
| Outputs:  Floating point exception |
| Passed |
| Date: 4/21/2021 |

**PBI-PO.CSV**

**Regression Tests**

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| The PBI, the Task Description (from Sprint Log) with Unique Testing Number:  PBI-PO.CSV, regression testing for multiple files code, 13 |
| Team Member(s) Responsible: Roman Woolery |
| Inputs: ./test |
| Tests: Ran unit testing from project 1 with ./test |
| Outputs:  [==========] Running 28 tests from 5 test suites.  [----------] Global test environment set-up.  [----------] 10 tests from OPLTest  [ RUN ] OPLTest.seatSetterGetter1  [ OK ] OPLTest.seatSetterGetter1 (0 ms)  [ RUN ] OPLTest.partyVoteSetterGetter1  [ OK ] OPLTest.partyVoteSetterGetter1 (0 ms)  [ RUN ] OPLTest.firstSeatSetterGetter1  [ OK ] OPLTest.firstSeatSetterGetter1 (0 ms)  [ RUN ] OPLTest.secondSeatSetterGetter1  [ OK ] OPLTest.secondSeatSetterGetter1 (0 ms)  [ RUN ] OPLTest.candListSetterGetter1  [ OK ] OPLTest.candListSetterGetter1 (0 ms)  [ RUN ] OPLTest.quotaSetterGetter1  [ OK ] OPLTest.quotaSetterGetter1 (3 ms)  [ RUN ] OPLTest.calculateSeatAllocation1  [ OK ] OPLTest.calculateSeatAllocation1 (2 ms)  [ RUN ] OPLTest.countVote1  [ OK ] OPLTest.countVote1 (3 ms)  [ RUN ] OPLTest.countVote2  [ OK ] OPLTest.countVote2 (3 ms)  [ RUN ] OPLTest.countVote3  [ OK ] OPLTest.countVote3 (3 ms)  [----------] 10 tests from OPLTest (14 ms total)  [----------] 7 tests from IRTest  [ RUN ] IRTest.winnerSetterGetter1  [ OK ] IRTest.winnerSetterGetter1 (0 ms)  [ RUN ] IRTest.loserSetterGetter1  [ OK ] IRTest.loserSetterGetter1 (0 ms)  [ RUN ] IRTest.countVote1  [ OK ] IRTest.countVote1 (1 ms)  [ RUN ] IRTest.countVote2  [ OK ] IRTest.countVote2 (3 ms)  [ RUN ] IRTest.countVote3  [ OK ] IRTest.countVote3 (3 ms)  [ RUN ] IRTest.countVote4  [ OK ] IRTest.countVote4 (3 ms)  [ RUN ] IRTest.countVote5  ir\_test.cpp:187: Failure  Expected equality of these values:  actual  Which is: { { 4, 2, 2, 2 }, { 5, 2, 0, 3 }, { 5, 0, 0, 5 } }  expected1  Which is: { { 4, 2, 2, 2 }, { 4, 0, 2, 4 }, { 5, 0, 0, 5 } }  ir\_test.cpp:189: Failure  Expected equality of these values:  actual  Which is: { { 4, 2, 2, 2 }, { 5, 2, 0, 3 }, { 5, 0, 0, 5 } }  expected3  Which is: { { 4, 2, 2, 2 }, { 5, 3, 2, 0 }, { 6, 3, 0, 0 } }  ir\_test.cpp:191: Failure  Expected equality of these values:  ir->getCandidateList()[3]  Which is: 0x55b035ddcdb0  ir->getWinner()  Which is: 0x55b035ddd300  [ FAILED ] IRTest.countVote5 (4 ms)  [----------] 7 tests from IRTest (14 ms total)  [----------] 5 tests from CandidateTest  [ RUN ] CandidateTest.nameSetterGetter1  [ OK ] CandidateTest.nameSetterGetter1 (0 ms)  [ RUN ] CandidateTest.partySetterGetter1  [ OK ] CandidateTest.partySetterGetter1 (0 ms)  [ RUN ] CandidateTest.votesSetterGetter1  [ OK ] CandidateTest.votesSetterGetter1 (0 ms)  [ RUN ] CandidateTest.eliminatedSetterGetter1  [ OK ] CandidateTest.eliminatedSetterGetter1 (0 ms)  [ RUN ] CandidateTest.ballotListSetterGetter1  [ OK ] CandidateTest.ballotListSetterGetter1 (0 ms)  [----------] 5 tests from CandidateTest (0 ms total)  [----------] 2 tests from BallotTest  [ RUN ] BallotTest.rankSetterGetter1  [ OK ] BallotTest.rankSetterGetter1 (0 ms)  [ RUN ] BallotTest.voteSetterGetter1  [ OK ] BallotTest.voteSetterGetter1 (0 ms)  [----------] 2 tests from BallotTest (0 ms total)  [----------] 4 tests from ElectionTest  [ RUN ] ElectionTest.typeSetterGetter1  [ OK ] ElectionTest.typeSetterGetter1 (0 ms)  [ RUN ] ElectionTest.numBallotsSetterGetter1  [ OK ] ElectionTest.numBallotsSetterGetter1 (0 ms)  [ RUN ] ElectionTest.numCandidatesSetterGetter1  [ OK ] ElectionTest.numCandidatesSetterGetter1 (0 ms)  [ RUN ] ElectionTest.candSetterGetter1  [ OK ] ElectionTest.candSetterGetter1 (0 ms)  [----------] 4 tests from ElectionTest (0 ms total)  [----------] Global test environment tear-down  [==========] 28 tests from 5 test suites ran. (28 ms total)  [ PASSED ] 27 tests.  [ FAILED ] 1 test, listed below:  [ FAILED ] IRTest.countVote5  1 FAILED TEST |
| Passed (Because it’s consistent with project 1’s results. A failed test was expected) |
| Date: 4/29/2021 |