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| The PBI: Bring in multiple election files Task description: Create Unit Tests for confirmation of function Unique testing number: 001 |
| Team Member(s) Responsible: Hady Kotifani |
| Inputs: filename.txt |
| Tests: that multiple files can be properly brought in |
| Outputs: filename.txt |
| Passed or Failed |
| Date: 04/17/2023 |

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| The PBI: Bring in multiple election files Task description: Create Unit Tests for confirmation of function Unique testing number: 002 |
| Team Member(s) Responsible: Hady Kotifani |
| Inputs: filename1.txt filename2.txt |
| Tests: that multiple files can be properly brought in |
| Outputs: |
| Passed or Failed |
| Date: 04/17/2023 |

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| The PBI: Bring in multiple election files Task description: Create Unit Tests for confirmation of function Unique testing number: 003 |
| Team Member(s) Responsible: Hady Kotifani |
| Inputs: filename1.txt filename2.txt filename3.txt |
| Tests: that multiple files can be properly brought in |
| Outputs: filename1.txt filename2.txt filename3.txt |
| Passed or Failed |

Date: 04/17/2023

The PBI: **Process In Multiple CPL Headers Correctly**

Task description: **Modify Election class to hold an array of Scanner objects**

Unique testing number: **004**

Team Member(s) Responsible: Evan Bagwell

Inputs:

CPL_Standard.csv

CPL_Standrad.csv CPL_Standard2.csv

Tests:

Check that the appropriate Scanner objects are initialized and are pointing to their respective CPL_Election files

Check getters and setters

Bounds check on Scanner array

Outputs:

True if tests pass, false otherwise

Passed or Failed

Date: 04/18/2023

The PBI: **Process In Multiple CPL Headers Correctly**

Task description: **Read header information from one CPL_Election file**

Unique testing number: **005**

Team Member(s) Responsible: Evan Bagwell

Inputs:

CPL_Standard.csv

CPL_Standrad.csv CPL_Standard2.csv

Tests:

Test that the correct header information is produced in the audit file

Outputs:

Header information is displayed on the audit file

Passed or Failed

Date: 04/18/2023

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| The PBI: Process ballots from multiple CPL_Election files Task description: Create an array of Scanner objects in Main.java for CPL_Election Unique testing number: 006 |
| Team Member(s) Responsible: Evan Bagwell |
| Inputs: CPL_Standard.csv CPL_Standrad.csv CPL_Standard2.csv |
| Tests: Test that the Scanner objects have been created successfully and point to their respective files when passed to CPL_Election |
| Outputs: True if test pass, false otherwise |
| Passed or Failed |
| Date: 04/18/2023 |

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| The PBI: Process ballots from multiple CPL_Election files Task description: Iterate through multiple CPL_Election files to read in ballots Unique testing number: 007 |
| Team Member(s) Responsible: Evan Bagwell |
| Inputs: CPL_Standard.csv CPL_Standrad.csv CPL_Standard2.csv |
| Tests: Check that the total ballots is correct Check that the total ballots in each file is correct Check that all ballots have been properly initialized in the initial ballots array |
| Outputs: True if test pass, false otherwise |
| Passed or Failed |
| Date: 04/18/2023 |

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| The PBI: Process ballots from multiple IR_Election files Task description: Iterate through multiple IR_Election files to read in ballots Unique testing number: 008 |
| Team Member(s) Responsible: Tyler Grimm, Hady Kotifani |
| Inputs: IR_multiFile_header1.csv IR_multiFile_header2.csv |
| Tests: Check that the total ballots is correct Check that header info, election type, candidate and party names correct Check that the total ballots in each file is correct Check that all ballots have been properly initialized in the initial ballots array |
| Outputs: True if test pass, false otherwise |
| Passed or Failed |
| Date: 04/23/2023 |

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| The PBI: Process ballots from multiple IR_Election files Task description: Iterate through multiple IR_Election files to read in ballots Unique testing number: 009 |
| Team Member(s) Responsible: Tyler Grimm, Hady Kotifani |
| Inputs: DoubleDigitCandidates.csv DoubleDigitCandidates.csv |
| Tests: Check that the total ballots is correct Check that the total ballots in each file is correct Check that all ballots have been properly initialized in the initial ballots array |
| Outputs: True if test pass, false otherwise |
| Passed or Failed |
| Date: 04/23/2023 |

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| The PBI: Create a Table displaying progression of IR_Election Task description: Be able to get and set internal IR_Table attributes Unique testing number: 010 |
| Team Member(s) Responsible: Evan Bagwell |
| Inputs: None |
| Tests: Check that setters work properly Check that getters work properly |
| Outputs: True if test pass, false otherwise |
| Passed or Failed |
| Date: 04/25/2023 |

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| The PBI: Create a Table displaying progression of IR_Election Task description: Table initializes with correct format and data Unique testing number: 011 |
| Team Member(s) Responsible: Evan Bagwell |
| Inputs: None |
| Tests: Check that an IR_Table generates Check that Candidate, Party, Exhausted, Total headers generate properly Check that Candidates and Parties are listed |
| Outputs: GUI table that is manually checked for accuracy |
| Passed or Failed |
| Date: 04/25/2023 |

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| The PBI: Create a Table displaying progression of IR_Election Task description: IR_Election round is properly added to the table Unique testing number: 012 |
| Team Member(s) Responsible: Evan Bagwell |

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| Inputs: None |
| Tests: Check that an IR_Table generates Check that Candidate, Party, Exhausted, Total headers generate properly Check that Candidates and Parties are listed Check that vote counts are added for the first round of an IR_Election Check that the total votes are added to the table |
| Outputs: GUI table that is manually checked for accuracy |
| Passed or Failed |
| Date: 04/25/2023 |

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| The PBI: Process a PO Election File Header Task description: Create Parser for Election File Header Unique testing number: 013 |
| Team Member(s) Responsible: Andrew Guerra |
| Inputs: None |
| Tests: Check that a PO_Election file exists Check that the number of ballots in a PO_Election file is correct |
| Outputs: True if tests pass, false otherwise |
| Passed or Failed |
| Date: 04/28/2023 |

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| The PBI: Process Multiple PO Election File Headers Task description: Read One Header From a Set of Files Unique testing number: 014 |
| Team Member(s) Responsible: Andrew Guerra |
| Inputs: None |
| Tests: |

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| <p>Check that a PO_Election file exists</p> <p>Check that the number of ballots in a PO_Election file is correct indicating the first file from a list of files selected</p> |
| <p>Outputs:</p> <p>True if tests pass, false otherwise</p> |
| Passed or Failed |
| Date: 04/28/2023 |

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| <p>The PBI: Run a PO Election</p> <p>Task description: System tests for integration</p> <p>Unique testing number: 015</p> |
| Team Member(s) Responsible: Andrew Guerra |
| <p>Inputs:</p> <p>small-PO.csv</p> <p>large-PO.csv</p> |
| <p>Tests:</p> <p>Checks for correct output for single and multi-file elections</p> <p>Checks handling of a large PO file</p> |
| <p>Outputs:</p> <p>True if test pass, false otherwise</p> |
| Passed or Failed |
| Date: 04/28/2023 |

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| <p>The PBI: Display stats of a PO Election</p> <p>Task description: Display election percentages to terminal</p> <p>Unique testing number: 015</p> |
| Team Member(s) Responsible: Andrew Guerra |
| <p>Inputs:</p> <p>small-CPL.csv</p> |
| <p>Tests:</p> <p>Checks that election output matches expected output</p> |

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| Outputs: True if test pass, false otherwise |
| Passed or Failed |
| Date: 04/28/2023 |

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| The PBI: Process Multiple IR_Election Headers Correctly Task description: Read One Header From Set of Files Unique testing number: 017 |
| Team Member(s) Responsible: Andrew Guerra |
| Inputs: IR_multiFile_header1.csv IR_multiFile_header2.csv DoubleDigitCandidates.csv |
| Tests: Checks that files exist and are able to be brought into an CPL_Election Checks that header information is read in correctly Checks that only one file is used to check for election information |
| Outputs: True if test pass, false otherwise |
| Passed or Failed |
| Date: 04/28/2023 |

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| The PBI: Process ballots from multiple IR_Election files Task description: Integrate With Rest of Election System Unique testing number: 018 |
| Team Member(s) Responsible: Andrew Guerra, Evan Bagwell, Hady Kotifani |
| Inputs: small-IR.csv small-IR.csv |
| Tests: Checks if audit file was created successfully |

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| <p>Checks that files exist and are able to be brought into an IR_Election</p> <p>Checks that header information is read in correctly</p> <p>Check that the total ballots in each file is correct</p> |
| <p>Outputs:</p> <p>True if test pass, false otherwise</p> |
| Passed or Failed |
| Date: 04/28/2023 |

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| <p>The PBI: Process ballots from multiple CPL_Election files</p> <p>Task description: Integrate With Rest of Election System</p> <p>Unique testing number: 019</p> |
| Team Member(s) Responsible: Andrew Guerra, Evan Bagwell, Hady Kotifani |
| <p>Inputs:</p> <p>small-CPL.csv</p> <p>small-CPL.csv</p> |
| <p>Tests:</p> <p>Checks if audit file was created successfully</p> <p>Checks that files exist and are able to be brought into an CPL_Election</p> <p>Checks that header information is read in correctly</p> <p>Check that the total ballots in each file is correct</p> |
| <p>Outputs:</p> <p>True if test pass, false otherwise</p> |
| Passed or Failed |
| Date: 04/28/2023 |

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| <p>The PBI: Process PO Ballot Election Header</p> <p>Task description: Ensure The header of the election is processed properly</p> <p>Unique testing number: 020</p> |
| Team Member(s) Responsible: Andrew Guerra, Evan Bagwell, Hady Kotifani |
| <p>Inputs:</p> <p>small-PO.csv</p> |

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| Tests: Manual check to see if the candidate names and party are extracted given the PO election csv format |
| Outputs: Proper names and corresponding party printed to screen |
| Passed or Failed |
| Date: 04/28/2023 |

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| The PBI: Process PO Ballot Election Ballots Task description: Ensure The Ballots of the election is processed properly Unique testing number: 021 |
| Team Member(s) Responsible: Andrew Guerra, Evan Bagwell, Hady Kotifani |
| Inputs: small-PO.csv |
| Tests: Manual check to see if the corresponding percentage of ballots go to their corresponding candidate |
| Outputs: Proper percentages are printed to screen |
| Passed or Failed |
| Date: 04/28/2023 |

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| The PBI: Process PO Ballot Election Header for more than one file Task description: Ensure The header of the election is processed properly Unique testing number: 022 |
| Team Member(s) Responsible: Andrew Guerra, Evan Bagwell, Hady Kotifani |
| Inputs: small-PO.csv small-PO.csv |
| Tests: Manual check to see if the candidate names and party are extracted given the PO |

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| election csv format and two of them |
| Outputs: Proper names and corresponding party printed to screen |
| Passed or Failed |
| Date: 04/28/2023 |

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| The PBI: Process PO Ballot Election Ballots Task description: Ensure The Ballots of the election is processed properly Unique testing number: 023 |
| Team Member(s) Responsible: Andrew Guerra, Evan Bagwell, Hady Kotifani |
| Inputs: small-PO.csv small-PO.csv |
| Tests: Manual check to see if the corresponding percentage of ballots go to their corresponding candidate |
| Outputs: Proper percentages are printed to screen given more than one file indicating the candidates got their proper number of votes |
| Passed or Failed |
| Date: 04/28/2023 |

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| The PBI: Process PO Ballot Election Ballots Task description: Ensure The Ballots of the election is processed properly Unique testing number: 023 |
| Team Member(s) Responsible: Andrew Guerra, Evan Bagwell, Hady Kotifani |
| Inputs: small-PO.csv small-PO.csv |
| Tests: Manual check to see if the corresponding percentage of ballots go to their corresponding candidate |
| Outputs: |

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| Proper percentages are printed to screen given more than one file indicating the candidates got their proper number of votes |
| Passed or Failed |
| Date: 04/28/2023 |

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| The PBI: Determine PO Election Winner Upon Tie Via Coin Toss Task description: Create Unit Test Unique testing number: 023 |
| Team Member(s) Responsible: Andrew Guerra, Evan Bagwell, Hady Kotifani |
| Inputs: tie-PO.csv |
| Tests: Manual check to see if the winner is different and properly distributed for each run of the election in the event of a tie |
| Outputs: The winner of the election |
| Passed or Failed |
| Date: 04/30/2023 |