Team 13: Amy Nguyen (nguy2841), Kaley Schiffler (schif172), Hoin Jang (jang0064), William Henning (henni187)

The PBI, the Task Description (from Sprint Log): Multiple Files Unique Testing Number: MF_001
Team Member(s) Responsible: Amy
Inputs: opl1.csv, opl3.csv
Tests: 1. Test that OPL election will handle multiple files. 2. Test that header information is the same among all files excluding the ballot count. 3. Test that the generated file's ballot count will be the sum of all input ballots. 4. Test that OPL election with multiple files will produce the correct output.
Outputs: 1. combinedFile.csv 2. Winners: Pike, Foster, Borg/Jones 3. The total number of ballots: 16 4. Generated the correct media and audit files
Passed or Failed: Passed
Date: 04/17/2022

The PBI, the Task Description (from Sprint Log): Multiple Files Unique Testing Number: MF_002
Team Member(s) Responsible: Amy
Inputs: opl1.csv, opl2.csv
Tests: 1. Test that OPL election will handle multiple files. 2. Test that if header information is different in multiple files excluding the ballot count, the election will not run due to an invalid selection of files.
Outputs: Terminal prints: "Invalid. Please check header information for each file."
Passed or Failed: Passed
Date: 04/17/2022

The PBI, the Task Description (from Sprint Log): Multiple Files Unique Testing Number: MF_003
Team Member(s) Responsible: Amy
Inputs: irv1.csv, irv1.csv (use the "same" file to test multiple file inputs)
Tests: 1. Test that IRV election will handle multiple files. 2. Test that header information is the same among all files excluding the ballot count 3. Test that the generated file's ballot count will be the sum of all input ballots. 4. Test that IRV election with multiple files will produce the correct output. 5. Generate the correct invalid ballot report
Outputs: 1. combinedFile.csv 2. Winners: Rosen, Chou, Royce/Kleinberg 3. The total number of ballots: 12 4. Generated the correct invalid ballot report 5. Generated the correct media and audit files
Passed or Failed: Passed
Date: 04/18/2022

The PBI, the Task Description (from Sprint Log): Multiple Files Unique Testing Number: MF_004
Team Member(s) Responsible: Amy
Inputs: irv1.csv, irv2.csv
Tests: 1. Test that IRV election will handle multiple files. 2. Test that if header information is different in multiple files excluding the ballot count, the election will not run due to an invalid selection of files.
Outputs: Terminal prints: "Invalid. Please check header information for each file."
Passed or Failed: Passed
Date: 04/17/2022

The PBI, the Task Description (from Sprint Log): Multiple Files Unique Testing Number: MF_005
Team Member(s) Responsible: Amy
Inputs: irv1.csv, opl1.csv
Tests: 1. Test that the system will not run different election type files
Outputs: Terminal prints: "Invalid. Please check header information for each file."
Passed or Failed: Passed
Date: 04/17/2022

The PBI, the Task Description (from Sprint Log): Multiple Files Unique Testing Number: MF_006
Team Member(s) Responsible: Amy, Hoin, Will
Inputs: po1.csv, po6.csv
Tests: 1. Test that PO election will handle multiple files. 2. Test that header information is the same among all files excluding the ballot count. 3. Test that the generated file's ballot count will be the sum of all input ballots. 4. Test that PO election with multiple files will produce the correct output.
Outputs: 1. combinedFile.csv 2. Winner: Pike 3. The total number of ballots: 7 4. Generated the correct media and audit files
Passed or Failed: Passed
Date: 04/18/2022

The PBI, the Task Description (from Sprint Log): Multiple Files Unique Testing Number: MF_007
Team Member(s) Responsible: Amy, Hoin
Inputs: po1.csv, po2.csv
Tests: 1. Test that PO election will handle multiple files. 2. Test that if header information is different in multiple files excluding the ballot count, the election will not run due to an invalid selection of files.
Outputs: Terminal prints: "Invalid. Please check header information for each file."
Passed or Failed: Passed
Date: 04/18/2022

The PBI, the Task Description (from Sprint Log): PO .csv input handling Unique Testing Number: IH_001
Team Member(s) Responsible: Amy, Hoin
Inputs: po1.csv, po2.csv, po3.csv, po4.csv, po5.csv, po6.csv, po7.csv, po8.csv
Tests: 1. Test that PO election will handle different .csv files

Outputs:
 	
1. Terminal prints for each .csv file run:
  "../testing/<po1 through 8>.csv"
  "Running PO" (PO is decided, but prints before PO system run)
  "Running PO" (PO is decided, print after PO system runs)

Passed or Failed: Passed
Date: 04/18/2022

The PBI, the Task Description (from Sprint Log): IRV Valid Ballots Unique Testing Number: IRV_001
Team Member(s) Responsible: Kaley, William, Amy
Inputs: irv8.csv
Tests: 1. Test that the IRV only uses valid ballots (where ballots have at least half of the candidates ranked) 2. Generate the correct invalid ballot report
Outputs: 1. Winners: Chou and Royce 2. Correct terminal display 3. Generated the correct invalid ballot report 4. Generated the correct media and audit files
Passed or Failed: Passed
Date: 04/19/2022

The PBI, the Task Description (from Sprint Log): IRV Valid Ballots Unique Testing Number: IRV_002
Team Member(s) Responsible: Kaley, William, Amy
Inputs: irv9.csv
Tests: 1. Test that the IRV only uses valid ballots (where ballots have at least half of the candidates ranked) 2. Generate the correct invalid ballot report
Outputs: 1. "Running IRV" 2. Final Winner: Kleinberg 3. Votes: Kleinberg had 6 4. Generated the correct invalid ballot report 5. Generated the correct media and audit files
Passed or Failed: Passed
Date: 04/19/2022

The PBI, the Task Description (from Sprint Log): PO election Unique Testing Number: PO_001
Team Member(s) Responsible: Hoin, William
Inputs: po1.csv
Tests: 1. Test that the PO election runs a .csv file 2. Test a "normal" PO election from (write up example) 3. Generate audit and media files
Outputs: 1. Winner: Pike 2. Generated the correct media and audit files
Passed or Failed: Passed
Date: 04/18/2022

The PBI, the Task Description (from Sprint Log): PO election Unique Testing Number: PO_002
Team Member(s) Responsible: Hoin, William
Inputs: po2.csv
Tests: 1. Test that the PO election runs a .csv file 2. Test that all candidates got one vote (three-way tie) 3. Generate the correct audit and media files
Outputs: 1. Pike/Foster/Deutsch (Depends on a coin flip) 2. Generated the correct media and audit files
Passed or Failed: Passed
Date: 04/18/2022

The PBI, the Task Description (from Sprint Log): PO election Unique Testing Number: PO_003
Team Member(s) Responsible: Hoin, William
Inputs: po3.csv
Tests: 1. Test that the PO election runs a .csv file 2. Test that each candidate got two votes (four-way tie) 3. Generate the correct audit and media files
Outputs: 1. Winner: Pike/Foster/Deutsch/Smith (Depends on a coin flip) 2. Generated the correct media and audit files
Passed or Failed: Passed
Date: 04/22/2022

The PBI, the Task Description (from Sprint Log): PO election Unique Testing Number: PO_004
Team Member(s) Responsible: Hoin, William
Inputs: po4.csv
Tests: 1. Test that the PO election runs a .csv file 2. Test that all the ballots were voted for one candidate(Pike) 3. Generate the correct audit and media files
Outputs: 1. Winner: Pike 2. Generated the correct audit and media files
Passed or Failed: Passed
Date: 04/22/2022

The PBI, the Task Description (from Sprint Log): PO election
Unique Testing Number: PO_005

Team Member(s) Responsible: Hoin, William

Inputs: po5.csv

Tests:

1. Test that the PO election runs a .csv file
2. Test that no ballot was provided
3. Generate the correct audit and media files

Outputs:

1. Winner: Pike/Foster/Deutsch/Borg/Smith (Depends on a coin flip)
2. Generated the correct audit and media files

Passed or Failed: Passed

Date: 04/22/2022

The PBI, the Task Description (from Sprint Log): PO election
Unique Testing Number: PO_006

Team Member(s) Responsible: Hoin, William

Inputs: po6.csv

Tests:

1. Test that the PO election runs a .csv file
2. Test only one valid ballot was provided
3. Generated the correct audit and media files

Outputs:

1. Winner: Pike
2. Generate the correct audit and media files

Passed or Failed: Passed

Date: 04/22/2022

The PBI, the Task Description (from Sprint Log): PO election
Unique Testing Number: PO_007

Team Member(s) Responsible: Hoin, William

Inputs: po7.csv

Tests:

1. Test that the PO election runs a .csv file
2. Test that all candidates got one vote (five-way tie)
3. Generate the correct audit and media files

Outputs:

1. Winner: Pike/Foster/Deutsch/Borg/Smith (Depends on a coin flip)
2. Generated the correct audit and media files

Passed or Failed: Passed

Date: 04/22/2022

The PBI, the Task Description (from Sprint Log): PO election
Unique Testing Number: PO_008

Team Member(s) Responsible: Hoin, William

Inputs: po8.csv

Tests:

1. Test that the PO election runs a .csv file
2. Test that a large number of ballots (10000) finished in a timely manner
3. Generate the correct audit and media files

Outputs:

1. Winner: Pike
2. Generated the correct audit and media files

Passed or Failed: Passed

Date: 04/27/2022

The PBI, the Task Description (from Sprint Log): Memory Leak Unique Testing Number: ML_001
Team Member(s) Responsible: William, Kaley
Inputs: irv1.csv
Tests: 1. Test that the IRV election has no memory leaks with Valgrind
Outputs: 1. In use at exit: 0 bytes in 0 blocks 2. All heap blocks were freed -- no leaks are possible 3. ERROR SUMMARY: 0 errors from 0 contexts (suppressed:0 from 0)
Passed or Failed: Passed
Date: 04/27/2022

The PBI, the Task Description (from Sprint Log): Memory Leak Unique Testing Number: ML_002
Team Member(s) Responsible: William, Kaley
Inputs: opl1.csv
Tests: 1. Test that the OPL election has no memory leaks with Valgrind
Outputs: 1. In use at exit: 0 bytes in 0 blocks 2. All heap blocks were freed -- no leaks are possible 3. ERROR SUMMARY: 0 errors from 0 contexts (suppressed:0 from 0)
Passed or Failed: Passed
Date: 04/27/2022

The PBI, the Task Description (from Sprint Log): Memory Leak Unique Testing Number: ML_003
Team Member(s) Responsible: William, Kaley
Inputs: po1.csv
Tests: 1. Test that the PO election has no memory leaks with Valgrind
Outputs: 1. In use at exit: 0 bytes in 0 blocks 2. All heap blocks were freed -- no leaks are possible 3. ERROR SUMMARY: 0 errors from 0 contexts (suppressed:0 from 0)
Passed or Failed: Passed
Date: 04/27/2022