Unit testing

| The PBI, the Task Description (from Sprint Log) with Unique Testing Number: | Multiple Names   * Adding the ability to get results for candidates with the same name, throughout multiple parties   rdcpl\_cwo |
| --- | --- |
| Team Member(s) Responsible: | Derrick Dischinger |
| Inputs: | 1. An array list representing the expected party win order 2. A test file which is a FileData object with an electionType of “CPL”, 3 seats, 1000 ballots, 2 parties, a list of party candidates, the party votes, and the candidate votes |
| Tests: | 1. Test for when the win order is empty 2. Test for when one party has more votes than it is supposed to 3. Test with normal inputs 4. Test with inputs where duplicate names are found throughout different parties 5. Test with inputs in which duplicate names are found within the same party |
| Outputs: | Success |
| Passed or Failed | PASSED |
| Date | 4/15/24 |

| The PBI, the Task Description (from Sprint Log) with Unique Testing Number: | Multiple Names   * Adding the ability to get results for candidates with the same name, throughout multiple parties   rdopl\_cwo |
| --- | --- |
| Team Member(s) Responsible: | Derrick Discinger |
| Inputs: | 1. An array list representing the expected party win order, containing strings of parties in the order in which they should be allocated 2. A test file which is a FileData object with an electionType of “OPL”, 3 seats, 1000 ballots, 2 parties, a list of party candidates, the party votes, and the candidate votes |
| Tests: | 1. Test for when the win order is empty 2. Test for when one party has more votes than it is supposed to 3. Test with normal inputs 4. Test with inputs where duplicate names are found throughout different parties 5. Test with inputs in which duplicate names are found within the same party |
| Outputs: | Success |
| Passed or Failed | PASSED |
| Date | 4/15/24 |

System testing

**Multiple Names CPL system testing**

| The PBI, the Task Description (from Sprint Log) with Unique Testing Number: | Multiple Names: System Testing - writing  STMN01 |
| --- | --- |
| Team Member(s) Responsible: | Derrick Dischinger |
| Inputs: | A valid cpl file containing multiple candidates with the same name (Jon, in democrats and Jon in Green party)  Jon (Green) is the first ranked member of the winning party. In this election there is only one seat available. |
| Tests: | Running the ballot file through the system should result in Jon (Green) winning every single time |
| Outputs: | Run 1: Jon (Green)  Run 2: Jon (Green)  Run 3: Jon (Green)  Run 4: Jon (Green)  Run 5: Jon (Green) |
| Passed or Failed | PASSED |
| Date | April 13th 2024 |

File has been created, named CPLMN01.txt

| The PBI, the Task Description (from Sprint Log) with Unique Testing Number: | Multiple Names: System Testing - writing  STMN02 |
| --- | --- |
| Team Member(s) Responsible: | Derrick Dischinger |
| Inputs: | A valid cpl file containing multiple candidates with the same name (Daniel, in democrats and Daniel in republicans)  There are 2 available seats in the election, Daniel and Daniel are both the top candidates in their parties. Democrats win the first seat, Republicans win the second. |
| Tests: | Running the ballot file through the system should result in both Daniels (from their respective parties) winning the election. |
| Outputs: | Verify that both Daniels win the election |
| Passed or Failed | PASSED |
| Date | April 13th 2024 |

File has been created, named CPLMN02.txt

| The PBI, the Task Description (from Sprint Log) with Unique Testing Number: | Multiple Names: System Testing - writing  STMN03 |
| --- | --- |
| Team Member(s) Responsible: | Derrick Dischinger |
| Inputs: | A valid cpl file containing multiple candidates with the same name (Carl, in democrats and Carl in republicans and Carl in independent)  There are only 3 seats to allocate, Carl democrat and Carl republican should win seats while Carl independent should not. |
| Tests: | Running the file through the system should result in Carl republican and democrat winning while carl independent does not. |
| Outputs: | Verify that Carl independent was not among the winners of the election but both Carl democrat and Carl republican were |
| Passed or Failed | PASSED |
| Date | April 13th 2024 |

File has been created, named CPLMN03.txt

**Multiple Names OPL System testing**

| The PBI, the Task Description (from Sprint Log) with Unique Testing Number: | Multiple Names: System Testing - writing  STMN01 |
| --- | --- |
| Team Member(s) Responsible: | Derrick Dischinger |
| Inputs: | A valid OPL file containing multiple candidates with the same name (Jon, in democrats and Jon in republicans)  Jon republican has 24029 votes while Jon democrat only has 23948 votes. The republicans win the election. In this election there is only one seat available. |
| Tests: | Running the ballot file through the system should result in Jon republican winning every single time |
| Outputs: | Run 1: Jon (republican) won  Run 2: Jon (republican) won  Run 3: Jon (republican) won  Run 4: Jon (republican) won  Run 5: Jon (republican) won |
| Passed or Failed | PASSED |
| Date | April 13th 2024 |

File has been created, named OPLMN01.txt

| The PBI, the Task Description (from Sprint Log) with Unique Testing Number: | Multiple Names: System Testing - writing  STMN02 |
| --- | --- |
| Team Member(s) Responsible: | Derrick Dischinger |
| Inputs: | A valid cpl file containing multiple candidates with the same name (Daniel, in democrats and Daniel in republicans)  Daniel republican has 24029 votes and Daniel democrat has 24021 votes (the two top voted), both seats in the election should be allocated to Daniel and Daniel. |
| Tests: | Running the ballot file through the system should result in both Daniels (from their respective parties) winning the election. |
| Outputs: | Verify that both Daniels win the election |
| Passed or Failed | PASSED |
| Date | April 13th 2024 |

File has been created, named OPLMN02.txt

| The PBI, the Task Description (from Sprint Log) with Unique Testing Number: | Multiple Names: System Testing - writing  STMN03 |
| --- | --- |
| Team Member(s) Responsible: | Derrick Dischinger |
| Inputs: | A valid cpl file containing multiple candidates with the same name (Carl, in democrats and Carl in republicans and Carl in independent)  There are only 3 seats to allocate, Carl democrat and Carl republican should win seats as their parties won the election while Carl independent should not. |
| Tests: | Running the file through the system should result in Carl republican and democrat winning while carl independent does not. |
| Outputs: | Verify that Carl independent was not among the winners of the election but both Carl democrat and Carl republican were |
| Passed or Failed | PASSED |
| Date | April 13th 2024 |

File has been created, named OPLMN03.txt