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| **Project Name: Project 1: Voting System Team# 19** | |
| **Test Stage: Unit \_\_ System \_X\_** | **Test Date: 3/25/2024** |
| **Test Case ID#: 01** | **Name(s) of Testers: Zach Ross, Zaid Nolloy, Chris Atherton** |
| **Test Description: Test normal operation of OPL file input** |  |
| **Automated: yes\_\_\_ no \_X\_** | **Indicate where are you storing the tests (what file) and the name of the method/functions being used.**  **Project1/src/testing** |
| **Results: Pass \_\_X\_\_ Fail\_\_\_\_\_\_\_\_** |  |
|  |  |
| **Preconditions for Test: In directory ‘Project1/src/’ Have complied the program using make.** | |

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| **Step**  **#** | **Test Step**  **Description** | **Test**  **Data** | **Expected**  **Result** | **Actual**  **Result** | **Notes** |
| 1 |  |  |  |  |  |
| 2 | Execute program and test file | TestOPLNormal.csv | Accurate calculation and output | Accurate calculation and output | NA |
| 3 |  |  |  |  |  |
| 4 |  |  |  |  |  |
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**Post condition(s) for Test: Program successfully processed the test file.**

**Output a correct audit file and information to the screen.**

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| **Project Name: Project 1: Voting System Team# 19** | |
| **Test Stage: Unit \_\_ System \_X\_** | **Test Date: 3/25/2024** |
| **Test Case ID#: 02** | **Name(s) of Testers: Zach Ross, Zaid Nolloy, Chris Atherton** |
| **Test Description: Test normal operation of CPL file input** |  |
| **Automated: yes\_\_\_ no \_X\_** | **Indicate where are you storing the tests (what file) and the name of the method/functions being used.**  **Project1/src/testing** |
| **Results: Pass \_\_X\_\_ Fail\_\_\_\_\_\_\_\_** |  |
|  |  |
| **Preconditions for Test: In directory ‘Project1/src/’ Have complied the program using make.** | |

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| **Step**  **#** | **Test Step**  **Description** | **Test**  **Data** | **Expected**  **Result** | **Actual**  **Result** | **Notes** |
| 1 |  |  |  |  |  |
| 2 | Execute program and test file | TestCPLNormal.csv | Accurate calculation and output | Accurate calculation and output | NA |
| 3 |  |  |  |  |  |
| 4 |  |  |  |  |  |
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**Post condition(s) for Test: Program successfully processed the test file.**

**Output a correct audit file and information to the screen.**

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| **Project Name: Project 1: Voting System Team# 19** | |
| **Test Stage: Unit \_\_ System \_X\_** | **Test Date: 3/25/2024** |
| **Test Case ID#: 03** | **Name(s) of Testers: Zach Ross, Zaid Nolloy, Chris Atherton** |
| **Test Description: Test ties of OPL file input with zero votes** |  |
| **Automated: yes\_\_\_ no \_X\_** | **Indicate where are you storing the tests (what file) and the name of the method/functions being used.**  **Project1/src/testing** |
| **Results: Pass \_\_X\_\_ Fail\_\_\_\_\_\_\_\_** |  |
|  |  |
| **Preconditions for Test: In directory ‘Project1/src/’ Have complied the program using make.** | |

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| **Step**  **#** | **Test Step**  **Description** | **Test**  **Data** | **Expected**  **Result** | **Actual**  **Result** | **Notes** |
| 1 |  |  |  |  |  |
| 2 | Execute program and test file | TestTieZeroVotesOPL.csv | Accurate calculation and output | Accurate calculation and output | NA |
| 3 |  |  |  |  |  |
| 4 |  |  |  |  |  |
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**Post condition(s) for Test: Program successfully processed the test file.**

**Output a correct audit file and information to the screen.**

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| **Project Name: Project 1: Voting System Team# 19** | |
| **Test Stage: Unit \_\_ System \_X\_** | **Test Date: 3/25/2024** |
| **Test Case ID#: 04** | **Name(s) of Testers: Zach Ross, Zaid Nolloy, Chris Atherton** |
| **Test Description: Test ties of CPL file input with zero votes** |  |
| **Automated: yes\_\_\_ no \_X\_** | **Indicate where are you storing the tests (what file) and the name of the method/functions being used.**  **Project1/src/testing** |
| **Results: Pass \_\_X\_\_ Fail\_\_\_\_\_\_\_\_** |  |
|  |  |
| **Preconditions for Test: In directory ‘Project1/src/’ Have complied the program using make.** | |

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| **Step**  **#** | **Test Step**  **Description** | **Test**  **Data** | **Expected**  **Result** | **Actual**  **Result** | **Notes** |
| 1 |  |  |  |  |  |
| 2 | Execute program and test file | TestTieZeroVotesOPL.csv | Accurate calculation and output | Accurate calculation and output | NA |
| 3 |  |  |  |  |  |
| 4 |  |  |  |  |  |
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**Post condition(s) for Test: Program successfully processed the test file.**

**Output a correct audit file and information to the screen.**

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| **Project Name: Project 1: Voting System Team# 19** | |
| **Test Stage: Unit \_\_ System \_X\_** | **Test Date: 3/25/2024** |
| **Test Case ID#: 05** | **Name(s) of Testers: Zach Ross, Zaid Nolloy, Chris Atherton** |
| **Test Description: Test 100000 votes in under 4 minutes for**  OPL |  |
| **Automated: yes\_\_\_ no \_X\_** | **Indicate where are you storing the tests (what file) and the name of the method/functions being used.**  **Project1/src/testing** |
| **Results: Pass \_\_X\_\_ Fail\_\_\_\_\_\_\_\_** |  |
|  |  |
| **Preconditions for Test: In directory ‘Project1/src/’ Have complied the program using make.** | |

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| **Step**  **#** | **Test Step**  **Description** | **Test**  **Data** | **Expected**  **Result** | **Actual**  **Result** | **Notes** |
| 1 |  |  |  |  |  |
| 2 | Execute program and test file | TestOPLTieFour.csv | Accurate calculation and output | Accurate calculation and output | NA |
| 3 |  |  |  |  |  |
| 4 |  |  |  |  |  |
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**Post condition(s) for Test: Program successfully processed the test file.**

**Output a correct audit file and information to the screen in under 4 minutes.**

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| **Project Name: Project 1: Voting System Team# 19** | |
| **Test Stage: Unit \_\_ System \_X\_** | **Test Date: 3/25/2024** |
| **Test Case ID#: 06** | **Name(s) of Testers: Zach Ross, Zaid Nolloy, Chris Atherton** |
| **Test Description: Test 100000 votes in under 4 minutes for**  CPL |  |
| **Automated: yes\_\_\_ no \_X\_** | **Indicate where are you storing the tests (what file) and the name of the method/functions being used.**  **Project1/src/testing** |
| **Results: Pass \_\_X\_\_ Fail\_\_\_\_\_\_\_\_** |  |
|  |  |
| **Preconditions for Test: In directory ‘Project1/src/’ Have complied the program using make.** | |

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| **Step**  **#** | **Test Step**  **Description** | **Test**  **Data** | **Expected**  **Result** | **Actual**  **Result** | **Notes** |
| 1 |  |  |  |  |  |
| 2 | Execute program and test file | TestCPLTieFour.csv | Accurate calculation and output | Accurate calculation and output | NA |
| 3 |  |  |  |  |  |
| 4 |  |  |  |  |  |
|  |  |  |  |  |  |
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**Post condition(s) for Test: Program successfully processed the test file.**

**Output a correct audit file and information to the screen in under 4 minutes.**

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| **Project Name: Project 1: Voting System Team# 19** | |
| **Test Stage: Unit \_X\_ System \_\_** | **Test Date: 3/25/2024** |
| **Test Case ID#: 07** | **Name(s) of Testers: Zach Ross, Zaid Nolloy, Chris Atherton** |
| **Test Description: Test mainTest.cc**  **void testAddPartyAndCandidate()**  **void testVoteCountAndSeats()**  **void testCandidate()**  **Test addVote() and getVotes()**  **Test setSeats() and getSeats()**  **Test getName()** |  |
| **Automated: yes\_X\_ no \_\_** | **Indicate where are you storing the tests (what file) and the name of the method/functions being used.**  **Project1/src/testing/mainTest.cc** |
| **Results: Pass \_\_X\_\_ Fail\_\_\_\_\_\_\_\_** |  |
|  |  |
| **Preconditions for Test: In directory ‘Project1/src/testing/’ Have complied the program using**  **g++ -std=c++11 -I../include mainTest.cc ../partyMap.cc ../party.cc ../candidate.cc -o mainTest -lgtest -pthread** | |

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| **Step**  **#** | **Test Step**  **Description** | **Test**  **Data** | **Expected**  **Result** | **Actual**  **Result** | **Notes** |
| 1 |  |  |  |  |  |
| 2 | Execute program and test file | mainTest.cc | Pass Test suite | Passed Suite | NA |
| 3 |  |  |  |  |  |
| 4 |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

**Post condition(s) for Test: Program successfully passed mainTest.cc**

**Passes test suite**