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| **Project Name: Project 1: Voting System Team# 3** | |
| **Test Stage: Unit \_ System X** | **Test Date: 11/12/18** |
| **Test Case ID#: TC-Shi01** | **Name(s) of Testers: Shi Chen** |
| **Test Description: System testing for inputting an OPL file with 2 ballots.** |  |
| **Automated: yes no X** | **Indicate where are you storing the tests (what file) and the name of the method/functions being used.**  Data file is SmallElection1.csv is in the testing folder.  VoteCounter.java entry point is in src folder. |
| **Results: Pass X Fail\_** |  |
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| **Preconditions for Test:** file SmallElection1.csv is in the root directory | |

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| **Step**  **#** | **Test Step**  **Description** | **Test**  **Data** | **Expected**  **Result** | **Actual**  **Result** | **Notes** |
| 1 | Move the file SmallElection1.csv from testing directory into root directory of program. | SmallElection1.csv | No errors | No errors |  |
| 2 | Compile all files in the src directory if they are not already compiled. Execute VoteCounter. Or run VoteCounter from Intellij |  | Compiles | Compiles |  |
| 3 | Enter the file name “SmallElection1.csv” | SmallElection1.csv | File is read with no errors. | File is read with no errors. |  |
| 4 | Inspect audit and summary results for correctness. | Mon Nov 12 20:19:40 CST 2018--[ SmallElection1.csv Audit].txt | 1 winner is chosen randomly. Both candidates get 1 vote. | 1 winner is chosen randomly. Both candidates get 1 vote. | This can be ran multiple times and the filename of audit file will change over time. |
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**Post condition(s) for Test:**

An audit file named by time of test and the input file is in the directory.

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| **Project Name: Project 1: Voting System Team# 3** | |
| **Test Stage: Unit \_ System X** | **Test Date: 11/12/18** |
| **Test Case ID#: TC-Shi02** | **Name(s) of Testers: Shi Chen** |
| **Test Description: System testing for inputting an OPL file with 2 ballots but the candidates are written weirdly on the candidates’ line. To make sure the pattern matching is correct.** |  |
| **Automated: yes no X** | **Indicate where are you storing the tests (what file) and the name of the method/functions being used.**  Data file is SmallElection2.csv is in the testing folder.  VoteCounter.java entry point is in src folder. |
| **Results: Pass X Fail\_** |  |
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| **Preconditions for Test:** file SmallElection2.csv is in the root directory | |

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| **Step**  **#** | **Test Step**  **Description** | **Test**  **Data** | **Expected**  **Result** | **Actual**  **Result** | **Notes** |
| 1 | Move the file SmallElection2.csv from testing directory into root directory of program. | SmallElection2.csv | No errors | No errors |  |
| 2 | Compile all files in the src directory if they are not already compiled. Execute VoteCounter. Or run VoteCounter from Intellij |  | Compiles | Compiles |  |
| 3 | Enter the file name “SmallElection2.csv” | SmallElection2.csv | File is read with no errors. | File is read with no errors. |  |
| 4 | Inspect audit and summary results for correctness. | Mon Nov 12 20:36:05 CST 2018--[ SmallElection2.csv Audit] | 1 winner is chosen randomly. Both candidates get 1 vote. | 1 winner is chosen randomly. Both candidates get 1 vote. | This can be ran multiple times and the filename of audit file will change over time. |
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**Post condition(s) for Test:**

An audit file named by time of test and the input file is in the directory.

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| **Project Name: Project 1: Voting System Team# 3** | |
| **Test Stage: Unit \_ System X** | **Test Date: 11/12/18** |
| **Test Case ID#: TC-Shi03** | **Name(s) of Testers: Shi Chen** |
| **Test Description: System testing for inputting an OPL file with 6 candidates, 3 parties, 9 ballots, and 3 seats. This is from the SRS specificiations document.** |  |
| **Automated: yes no X** | **Indicate where are you storing the tests (what file) and the name of the method/functions being used.**  Data file is OPL.csv is in the testing folder.  VoteCounter.java entry point is in src folder. |
| **Results: Pass X Fail\_** |  |
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| **Preconditions for Test:** file OPL.csv is in the root directory | |

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| **Step**  **#** | **Test Step**  **Description** | **Test**  **Data** | **Expected**  **Result** | **Actual**  **Result** | **Notes** |
| 1 | Move the file OPL.csv from testing directory into root directory of program. | OPL.csv | No errors | No errors |  |
| 2 | Compile all files in the src directory if they are not already compiled. Execute VoteCounter. Or run VoteCounter from Intellij |  | Compiles | Compiles |  |
| 3 | Enter the file name “OPL.csv” | OPL.csv | File is read with no errors. | File is read with no errors. |  |
| 4 | Inspect audit and summary results for correctness. | Mon Nov 12 20:42:00 CST 2018--[ OPL.csv Audit] | Audit file with 3 winners. | Audit file with 3 winners. |  |
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**Post condition(s) for Test:**

An audit file named by time of test and the input file is in the directory.

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| **Project Name: Project 1: Voting System Team# 3** | |
| **Test Stage: Unit \_ System X** | **Test Date: 11/12/18** |
| **Test Case ID#: TC-Shi04** | **Name(s) of Testers: Shi Chen** |
| **Test Description: System testing for inputting an OPL file with 6 candidates, 3 parties, 9 ballots, and 3 seats. This is from the SRS specificiations document.** |  |
| **Automated: yes no X** | **Indicate where are you storing the tests (what file) and the name of the method/functions being used.**  Data file is OPL.csv is in the testing folder.  VoteCounter.java entry point is in src folder. |
| **Results: Pass X Fail\_** |  |
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| **Preconditions for Test:** file OPL.csv is in the root directory | |

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| **Step**  **#** | **Test Step**  **Description** | **Test**  **Data** | **Expected**  **Result** | **Actual**  **Result** | **Notes** |
| 1 | Move the file OPL.csv from testing directory into root directory of program. | OPL.csv | No errors | No errors |  |
| 2 | Compile all files in the src directory if they are not already compiled. Execute VoteCounter. Or run VoteCounter from Intellij |  | Compiles | Compiles |  |
| 3 | Enter the file name “OPL.csv” | OPL.csv | File is read with no errors. | File is read with no errors. |  |
| 4 | Inspect audit and summary results for correctness. | Mon Nov 12 20:42:00 CST 2018--[ OPL.csv Audit] | Audit file with 3 winners. | Audit file with 3 winners. |  |
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**Post condition(s) for Test:**

An audit file named by time of test and the input file is in the directory.

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| **Project Name: Project 1: Voting System Team# 3** | |
| **Test Stage: Unit \_ System X** | **Test Date: 11/12/18** |
| **Test Case ID#: TC-Shi05** | **Name(s) of Testers: Shi Chen** |
| **Test Description: System testing for inputting an OPL file with 3 candidates, 3 parties, and 3-way tie for 2 seats. To check if ties are handled.** |  |
| **Automated: yes no X** | **Indicate where are you storing the tests (what file) and the name of the method/functions being used.**  Data file is SmallElection3.csv is in the testing folder.  VoteCounter.java entry point is in src folder. |
| **Results: Pass X Fail\_** |  |
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| **Preconditions for Test:** file SmallElection3.csv is in the root directory | |

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| **Step**  **#** | **Test Step**  **Description** | **Test**  **Data** | **Expected**  **Result** | **Actual**  **Result** | **Notes** |
| 1 | Move the file SmallElection3.csv from testing directory into root directory of program. | SmallElection3.csv | No errors | No errors |  |
| 2 | Compile all files in the src directory if they are not already compiled. Execute VoteCounter. Or run VoteCounter from Intellij |  | Compiles | Compiles |  |
| 3 | Enter the file name “SmallElection3.csv” | SmallElection3.csv | File is read with no errors. | File is read with no errors. |  |
| 4 | Inspect audit and summary results for correctness. | Mon Nov 12 21:02:32 CST 2018--[ SmallElection3.csv Audit].txt | Audit file with 2 winners. | Audit file with 2 winners. |  |
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**Post condition(s) for Test:**

An audit file named by time of test and the input file is in the directory.

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| **Project Name: Project 1: Voting System Team# 3** | |
| **Test Stage: Unit \_ System X** | **Test Date: 11/12/18** |
| **Test Case ID#: TC-Shi06** | **Name(s) of Testers: Shi Chen** |
| **Test Description: System testing for inputting an OPL file with 6 candidates, 2 parties, and 1 one party has twice as many votes but not enough to win 2 seats straight up, for 2 seats. To check if quota and remainder work properly.** |  |
| **Automated: yes no X** | **Indicate where are you storing the tests (what file) and the name of the method/functions being used.**  Data file is SmallElection4.csv is in the testing folder.  VoteCounter.java entry point is in src folder. |
| **Results: Pass X Fail\_** |  |
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| **Preconditions for Test:** file SmallElection4.csv is in the root directory | |

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| **Step**  **#** | **Test Step**  **Description** | **Test**  **Data** | **Expected**  **Result** | **Actual**  **Result** | **Notes** |
| 1 | Move the file SmallElection4.csv from testing directory into root directory of program. | SmallElection4.csv | No errors | No errors |  |
| 2 | Compile all files in the src directory if they are not already compiled. Execute VoteCounter. Or run VoteCounter from Intellij |  | Compiles | Compiles |  |
| 3 | Enter the file name “SmallElection4.csv” | SmallElection4.csv | File is read with no errors. | File is read with no errors. |  |
| 4 | Inspect audit and summary results for correctness. | Mon Nov 12 20:59:39 CST 2018--[ SmallElection4.csv Audit].txt | Audit file with 2 winners. | Audit file with 2 winners. |  |
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**Post condition(s) for Test:**

An audit file named by time of test and the input file is in the directory.

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| **Project Name: Project 1: Voting System Team# 3** | |
| **Test Stage: Unit \_ System X** | **Test Date: 11/12/18** |
| **Test Case ID#: TC-Shi07** | **Name(s) of Testers: Shi Chen** |
| **Test Description: System testing for inputting an OPL file with 6 candidates, 2 seats, 3 parties, a 3 way tie and to check if multiway with multiple candidates is handled properly.** |  |
| **Automated: yes no X** | **Indicate where are you storing the tests (what file) and the name of the method/functions being used.**  Data file is SmallElection5.csv is in the testing folder.  VoteCounter.java entry point is in src folder. |
| **Results: Pass X Fail\_** |  |
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| **Preconditions for Test:** file SmallElection5.csv is in the root directory | |

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| **Step**  **#** | **Test Step**  **Description** | **Test**  **Data** | **Expected**  **Result** | **Actual**  **Result** | **Notes** |
| 1 | Move the file SmallElection5.csv from testing directory into root directory of program. | SmallElection5.csv | No errors | No errors |  |
| 2 | Compile all files in the src directory if they are not already compiled. Execute VoteCounter. Or run VoteCounter from Intellij |  | Compiles | Compiles |  |
| 3 | Enter the file name “SmallElection5.csv” | SmallElection5.csv | File is read with no errors. | File is read with no errors. |  |
| 4 | Inspect audit and summary results for correctness. | Mon Nov 12 21:19:36 CST 2018--[ SmallElection5.csv Audit].txt | Audit file with 2 winners. | Audit file with 2 winners. |  |
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**Post condition(s) for Test:**

An audit file named by time of test and the input file is in the directory.

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| **Project Name: Project 1: Voting System Team# 3** | |
| **Test Stage: Unit \_ System X** | **Test Date: 11/12/18** |
| **Test Case ID#: TC-Shi07** | **Name(s) of Testers: Shi Chen** |
| **Test Description: System testing for inputting an OPL file with 6 candidates, 3 parties, 3 seats, a 3 way tie and to check if multiway with multiple candidates is handled properly with equal number of seats is properly handled (no party randomly jumps another for a seat, everyone has 1).** |  |
| **Automated: yes no X** | **Indicate where are you storing the tests (what file) and the name of the method/functions being used.**  Data file is SmallElection6.csv is in the testing folder.  VoteCounter.java entry point is in src folder. |
| **Results: Pass X Fail\_** |  |
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| **Preconditions for Test:** file SmallElection6.csv is in the root directory | |

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| **Step**  **#** | **Test Step**  **Description** | **Test**  **Data** | **Expected**  **Result** | **Actual**  **Result** | **Notes** |
| 1 | Move the file SmallElection6.csv from testing directory into root directory of program. | SmallElection6.csv | No errors | No errors |  |
| 2 | Compile all files in the src directory if they are not already compiled. Execute VoteCounter. Or run VoteCounter from Intellij |  | Compiles | Compiles |  |
| 3 | Enter the file name “SmallElection6.csv” | SmallElection6.csv | File is read with no errors. | File is read with no errors. |  |
| 4 | Inspect audit and summary results for correctness. | Mon Nov 12 21:38:54 CST 2018--[ SmallElection6.csv Audit].txt | Audit file with 2 winners. | Audit file with 3 winners. |  |
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**Post condition(s) for Test:**

An audit file named by time of test and the input file is in the directory.

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| **Project Name: Project 1: Voting System Team# 3** | |
| **Test Stage: Unit \_ System X** | **Test Date: 11/12/18** |
| **Test Case ID#: TC-Shi08** | **Name(s) of Testers: Shi Chen** |
| **Test Description: System testing for inputting an OPL file with 7 candidates, 3 parties, uneven party numbers and 5 seats.** |  |
| **Automated: yes no X** | **Indicate where are you storing the tests (what file) and the name of the method/functions being used.**  Data file is SmallElection7.csv is in the testing folder.  VoteCounter.java entry point is in src folder. |
| **Results: Pass X Fail\_** |  |
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| **Preconditions for Test:** file SmallElection8.csv is in the root directory | |

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| **Step**  **#** | **Test Step**  **Description** | **Test**  **Data** | **Expected**  **Result** | **Actual**  **Result** | **Notes** |
| 1 | Move the file SmallElection7.csv from testing directory into root directory of program. | SmallElection7.csv | No errors | No errors |  |
| 2 | Compile all files in the src directory if they are not already compiled. Execute VoteCounter. Or run VoteCounter from Intellij |  | Compiles | Compiles |  |
| 3 | Enter the file name “SmallElection7.csv” | SmallElection7.csv | File is read with no errors. | File is read with no errors. |  |
| 4 | Inspect audit and summary results for correctness. | Mon Nov 12 21:45:05 CST 2018--[ smallElection7.csv Audit].txt | Audit file with 5 winners. | Audit file with 5 winners. |  |
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**Post condition(s) for Test:**

An audit file named by time of test and the input file is in the directory.

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| **Project Name: Project 1: Voting System Team# 3** | |
| **Test Stage: Unit \_ System X** | **Test Date: 11/12/18** |
| **Test Case ID#: TC-Shi09** | **Name(s) of Testers: Shi Chen** |
| **Test Description: System testing for inputting an OPL file with 100000 ballots.** |  |
| **Automated: yes no X** | **Indicate where are you storing the tests (what file) and the name of the method/functions being used.**  Data file is SmallElection8.csv is in the testing folder.  VoteCounter.java entry point is in src folder. |
| **Results: Pass X Fail\_** |  |
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| **Preconditions for Test:** file SmallElection8.csv is in the root directory | |

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| **Step**  **#** | **Test Step**  **Description** | **Test**  **Data** | **Expected**  **Result** | **Actual**  **Result** | **Notes** |
| 1 | Move the file SmallElection8.csv from testing directory into root directory of program. | SmallElection8.csv | No errors | No errors |  |
| 2 | Compile all files in the src directory if they are not already compiled. Execute VoteCounter. Or run VoteCounter from Intellij |  | Compiles | Compiles |  |
| 3 | Enter the file name “SmallElection8.csv” | SmallElection8.csv | File is read with no errors. | File is read with no errors. |  |
| 4 | Inspect audit and summary results for correctness. | Mon Nov 12 21:59:46 CST 2018--[ SmallElection8.csv Audit]txt | Audit file with 5 winners, under 8 seconds. | Audit file with 5 winners, under 8 seconds. |  |
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**Post condition(s) for Test:**

An audit file named by time of test and the input file is in the directory.

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| **Project Name: Project 1: Voting System Team# 3** | |
| **Test Stage: Unit \_ System X** | **Test Date: 11/12/18** |
| **Test Case ID#: TC-Shi10** | **Name(s) of Testers: Shi Chen** |
| **Test Description: More seats than Candidates.** |  |
| **Automated: yes noX** | **Indicate where are you storing the tests (what file) and the name of the method/functions being used.**  Data file is SmallElection9.csv is in the testing folder.  VoteCounter.java entry point is in src folder. |
| **Results: Pass X Fail\_** |  |
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| **Preconditions for Test:** file SmallElection9.csv is in the root directory | |

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| **Step**  **#** | **Test Step**  **Description** | **Test**  **Data** | **Expected**  **Result** | **Actual**  **Result** | **Notes** |
| 1 | Move the file SmallElection9.csv from testing directory into root directory of program. | SmallElection9.csv | No errors | No errors |  |
| 2 | Compile all files in the src directory if they are not already compiled. Execute VoteCounter. Or run VoteCounter from Intellij |  | Compiles | Compiles |  |
| 3 | Enter the file name “SmallElection9.csv” | SmallElection9.csv | File is read with no errors. | File is read with no errors. |  |
| 4 | Inspect audit and summary results for correctness. | Mon Nov 12 21:59:46 CST 2018--[ SmallElection9.csv Audit]txt | Audit file with 11 winners, under 8 seconds. | Audit file with 7 winners, under 8 seconds. |  |
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**Post condition(s) for Test:**

An audit file named by time of test and the input file is in the directory.

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| **Project Name: Project 1: Voting System Team# 3** | |
| **Test Stage: Unit \_ System X** | **Test Date: 11/12/18** |
| **Test Case ID#: TC-Hong01** | **Name(s) of Testers: Qing Hong** |
| **Test Description: IR Voting with provided example file.** |  |
| **Automated: yes no X** | **Indicate where are you storing the tests (what file) and the name of the method/functions being used.**  Data file is IrTest1.csv is in the testing folder.  VoteCounter.java entry point is in src folder. |
| **Results: Pass X Fail\_** |  |
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| **Preconditions for Test:** file IrTest1.csv is in the root directory | |

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| **Step**  **#** | **Test Step**  **Description** | **Test**  **Data** | **Expected**  **Result** | **Actual**  **Result** | **Notes** |
| 1 | Move the file IrTest1.csv from testing directory into root directory of program. | IrTest1.csv | No errors | No errors |  |
| 2 | Compile all files in the src directory if they are not already compiled. Execute VoteCounter. Or run VoteCounter from Intellij |  | Compiles | Compiles |  |
| 3 | Enter the file name “IrTest1.csv” | IrTest1.csv | File is read with no errors. | File is read with no errors. |  |
| 4 | Inspect audit and summary results for correctness. | Sun Nov 11 16:03:28 CST 2018[ irTest1.csv Audit].txt | Audit file with correct winner. | Audit file with correct winner. |  |
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**Post condition(s) for Test:**

An audit file named by time of test and the input file is in the directory.

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| **Project Name: Project 1: Voting System Team# 3** | |
| **Test Stage: Unit \_ System X** | **Test Date: 11/12/18** |
| **Test Case ID#: TC-Shi11** | **Name(s) of Testers: Shi Chen** |
| **Test Description: IR Voting with 100000 ballots.** |  |
| **Automated: yes no X** | **Indicate where are you storing the tests (what file) and the name of the method/functions being used.**  Data file is SmallElection10.csv is in the testing folder.  VoteCounter.java entry point is in src folder. |
| **Results: Pass X Fail\_** |  |
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| **Preconditions for Test:** file SmallElection10.csv is in the root directory | |

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| **Step**  **#** | **Test Step**  **Description** | **Test**  **Data** | **Expected**  **Result** | **Actual**  **Result** | **Notes** |
| 1 | Move the file SmallElection10.csv from testing directory into root directory of program. | SmallElection10.csv | No errors | No errors |  |
| 2 | Compile all files in the src directory if they are not already compiled. Execute VoteCounter. Or run VoteCounter from Intellij |  | Compiles | Compiles |  |
| 3 | Enter the file name “SmallElection10.csv” | SmallElection10.csv | File is read with no errors. | File is read with no errors. |  |
| 4 | Inspect audit and summary results for correctness. | Mon Nov 12 23:13:01 CST 2018--[ SmallElection10.csv Audit].txt | Audit file with correct winner. Complete in under 8 seconds. | Audit file with correct winner. Audit file with correct winner. Complete in under 8 seconds. |  |
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**Post condition(s) for Test:**

An audit file named by time of test and the input file is in the directory

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| **Project Name: Project 1: Voting System Team# 3** | |
| **Test Stage: Unit \_ System X** | **Test Date: 11/12/18** |
| **Test Case ID#: TC-Shi12** | **Name(s) of Testers: Shi Chen** |
| **Test Description: IR Voting with 2 ballots, 2 candidates, each getting a top rank. To test ties.** |  |
| **Automated: yes no X** | **Indicate where are you storing the tests (what file) and the name of the method/functions being used.**  Data file is SmallElection11.csv is in the testing folder.  VoteCounter.java entry point is in src folder. |
| **Results: Pass X Fail\_** |  |
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| **Preconditions for Test:** file SmallElection11.csv is in the root directory | |

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| **Step**  **#** | **Test Step**  **Description** | **Test**  **Data** | **Expected**  **Result** | **Actual**  **Result** | **Notes** |
| 1 | Move the file SmallElection11.csv from testing directory into root directory of program. | SmallElection11.csv | No errors | No errors |  |
| 2 | Compile all files in the src directory if they are not already compiled. Execute VoteCounter. Or run VoteCounter from Intellij |  | Compiles | Compiles |  |
| 3 | Enter the file name “SmallElection11.csv” | SmallElection11.csv | File is read with no errors. | File is read with no errors. |  |
| 4 | Inspect audit and summary results for correctness. | Mon Nov 12 23:27:07 CST 2018--[ SmallElection11.csv Audit].txt | Audit file with correct winner. | Audit file with correct winner. Audit file with correct winner. | Random. Winner can be different. A winner just has to occur |
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**Post condition(s) for Test:**

An audit file named by time of test and the input file is in the directory

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| **Project Name: Project 1: Voting System Team# 3** | |
| **Test Stage: Unit \_ System X** | **Test Date: 11/12/18** |
| **Test Case ID#: TC-Shi13** | **Name(s) of Testers: Shi Chen** |
| **Test Description: IR Voting with 2 ballots, 2 candidates, each getting a top rank with weird names. To test file parsing.** |  |
| **Automated: yes no X** | **Indicate where are you storing the tests (what file) and the name of the method/functions being used.**  Data file is SmallElection12.csv is in the testing folder.  VoteCounter.java entry point is in src folder. |
| **Results: Pass X Fail\_** |  |
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| **Preconditions for Test:** file SmallElection12.csv is in the root directory | |

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| **Step**  **#** | **Test Step**  **Description** | **Test**  **Data** | **Expected**  **Result** | **Actual**  **Result** | **Notes** |
| 1 | Move the file SmallElection12.csv from testing directory into root directory of program. | SmallElection12.csv | No errors | No errors |  |
| 2 | Compile all files in the src directory if they are not already compiled. Execute VoteCounter. Or run VoteCounter from Intellij |  | Compiles | Compiles |  |
| 3 | Enter the file name “SmallElection12.csv” | SmallElection12.csv | File is read with no errors. | File is read with no errors. |  |
| 4 | Inspect audit and summary results for correctness. | Mon Nov 12 23:52:24 CST 2018--[ SmallElection12.csv Audit].txt | Audit file with correct winner. | Audit file with correct winner. Audit file with correct winner. |  |
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**Post condition(s) for Test:**

An audit file named by time of test and the input file is in the directory

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| **Project Name: Project 1: Voting System Team# 3** | |
| **Test Stage: Unit \_ System X** | **Test Date: 11/12/18** |
| **Test Case ID#: TC-Shi14** | **Name(s) of Testers: Shi Chen** |
| **Test Description: File will have ballot number inconsistent with the number of ballots listed and candidate count is also inconsistent with the number of candidates.** |  |
| **Automated: yes no X** | **Indicate where are you storing the tests (what file) and the name of the method/functions being used.**  Data file is SmallElection13.csv is in the testing folder.  VoteCounter.java entry point is in src folder. |
| **Results: Pass Fail X** |  |
|  |  |
| **Preconditions for Test:** file SmallElection13.csv is in the root directory | |

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| **Step**  **#** | **Test Step**  **Description** | **Test**  **Data** | **Expected**  **Result** | **Actual**  **Result** | **Notes** |
| 1 | Move the file SmallElection13.csv from testing directory into root directory of program. | SmallElection13.csv | No errors | No errors |  |
| 2 | Compile all files in the src directory if they are not already compiled. Execute VoteCounter. Or run VoteCounter from Intellij |  | Compiles | Compiles |  |
| 3 | Enter the file name “SmallElection13.csv” | SmallElection13.csv | File is read with no errors. | File is read with no errors. |  |
| 4 | Inspect audit and summary results for correctness. | Tue Nov 13 00:05:31 CST 2018--[ SmalLElection13.csv Audit].txt | Should catch file inconsistencies. | File generated despite inconsistencies. |  |
|  |  |  |  |  |  |

**Post condition(s) for Test:**

An audit file named by time of test and the input file is in the directory

|  |  |
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| **Project Name: Project 1: Voting System Team# 3** | |
| **Test Stage: Unit \_ System X** | **Test Date: 11/12/18** |
| **Test Case ID#: TC-Shi15** | **Name(s) of Testers: Shi Chen** |
| **Test Description: File will have an elimination with a ballot whose #2 choice was also eliminated.** |  |
| **Automated: yes no X** | **Indicate where are you storing the tests (what file) and the name of the method/functions being used.**  Data file is SmallElection14.csv is in the testing folder.  VoteCounter.java entry point is in src folder. |
| **Results: Pass X Fail** |  |
|  |  |
| **Preconditions for Test:** file SmallElection14.csv is in the root directory | |

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| **Step**  **#** | **Test Step**  **Description** | **Test**  **Data** | **Expected**  **Result** | **Actual**  **Result** | **Notes** |
|  | Move the file SmallElection14.csv from testing directory into root directory of program. | SmallElection14.csv | No errors | No errors |  |
| 2 | Compile all files in the src directory if they are not already compiled. Execute VoteCounter. Or run VoteCounter from Intellij |  | Compiles | Compiles |  |
| 3 | Enter the file name “SmallElection14.csv” | SmallElection14.csv | File is read with no errors. | File is read with no errors. |  |
| 4 | Inspect Tue Nov 13 15:19:26 CST 2018--[ SmallElection14.csv Audit].txt for correctness | Tue Nov 13 15:19:26 CST 2018--[ SmallElection14.csv Audit].txt | File should get to another round of elections | File should get to another round of elections |  |
|  |  |  |  |  |  |

**Post condition(s) for Test:**

An audit file named by time of test and the input file is in the directory

|  |  |
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| **Project Name: Project 1: Voting System Team# 3** | |
| **Test Stage: Unit X System** | **Test Date: 11/12/18** |
| **Test Case ID#: TC-Shi16** | **Name(s) of Testers: Shi Chen** |
| **Test Description: Test Ballot.getId(). It’s a standard test to make sure the getter returns the correct value.** |  |
| **Automated: yes X no** | **Indicate where are you storing the tests (what file) and the name of the method/functions being used.**  Test is stored in BallotTest.java in function void getId(). |
| **Results: Pass X Fail** |  |
|  |  |
| **Preconditions for Test: You are in the src directory.** | |

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| **Step**  **#** | **Test Step**  **Description** | **Test**  **Data** | **Expected**  **Result** | **Actual**  **Result** | **Notes** |
| 1 | Navigate to the src folder |  |  |  |  |
| 2 | Compile all the .java files |  | Compiles | Compiles |  |
| 3 | Execute BallotTest | The test function tests an Id value of 132. | Assert test passes | Assert test passes |  |
|  |  |  | . |  |  |
|  |  |  |  |  |  |

**Post condition(s) for Test:**

None. Test either passes or fails.

|  |  |
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| **Project Name: Project 1: Voting System Team# 3** | |
| **Test Stage: Unit X System** | **Test Date: 11/12/18** |
| **Test Case ID#: TC-Shi17** | **Name(s) of Testers: Shi Chen** |
| **Test Description: Test Ballot.getVotes() with a small array with value on the front.** |  |
| **Automated: yes X no** | **Indicate where are you storing the tests (what file) and the name of the method/functions being used.**  Test is stored in BallotTest.java in function void getVotesSmallArrayFrontEdge(). |
| **Results: Pass X Fail** |  |
|  |  |
| **Preconditions for Test: You are in the src directory.** | |

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| **Step**  **#** | **Test Step**  **Description** | **Test**  **Data** | **Expected**  **Result** | **Actual**  **Result** | **Notes** |
| 1 | Navigate to the src folder |  |  |  |  |
| 2 | Compile all the .java files |  | Compiles | Compiles |  |
| 3 | Execute BallotTest | The test function tests an array with t[0] = 1. | Assert test passes | Assert test passes |  |
|  |  |  | . |  |  |
|  |  |  |  |  |  |

**Post condition(s) for Test:**

None. Test either passes or fails.

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| --- | --- |
| **Project Name: Project 1: Voting System Team# 3** | |
| **Test Stage: Unit X System** | **Test Date: 11/12/18** |
| **Test Case ID#: TC-Shi18** | **Name(s) of Testers: Shi Chen** |
| **Test Description: Test Ballot.getVotes() with a small array with value on the back.** |  |
| **Automated: yes X no** | **Indicate where are you storing the tests (what file) and the name of the method/functions being used.**  Test is stored in BallotTest.java in function void getVotesSmallArrayBackEdge(). |
| **Results: Pass X Fail** |  |
|  |  |
| **Preconditions for Test: You are in the src directory.** | |

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| **Step**  **#** | **Test Step**  **Description** | **Test**  **Data** | **Expected**  **Result** | **Actual**  **Result** | **Notes** |
| 1 | Navigate to the src folder |  |  |  |  |
| 2 | Compile all the .java files |  | Compiles | Compiles |  |
| 3 | Execute BallotTest | The test function tests an array with t[4] = 1. | Assert test passes | Assert test passes |  |
|  |  |  | . |  |  |
|  |  |  |  |  |  |

**Post condition(s) for Test:**

None. Test either passes or fails.

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| --- | --- |
| **Project Name: Project 1: Voting System Team# 3** | |
| **Test Stage: Unit X System** | **Test Date: 11/12/18** |
| **Test Case ID#: TC-Shi19** | **Name(s) of Testers: Shi Chen** |
| **Test Description: Test Ballot.getVotes() with a small array with value in the middle.** |  |
| **Automated: yes X no** | **Indicate where are you storing the tests (what file) and the name of the method/functions being used.**  Test is stored in BallotTest.java in function void getVotesSmallArrayMiddleEdge(). |
| **Results: Pass X Fail** |  |
|  |  |
| **Preconditions for Test: You are in the src directory.** | |

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| **Step**  **#** | **Test Step**  **Description** | **Test**  **Data** | **Expected**  **Result** | **Actual**  **Result** | **Notes** |
| 1 | Navigate to the src folder |  |  |  |  |
| 2 | Compile all the .java files |  | Compiles | Compiles |  |
| 3 | Execute BallotTest | The test function tests an array with t[2] = 1. | Assert test passes | Assert test passes |  |
|  |  |  | . |  |  |
|  |  |  |  |  |  |

**Post condition(s) for Test:**

None. Test either passes or fails.

|  |  |
| --- | --- |
| **Project Name: Project 1: Voting System Team# 3** | |
| **Test Stage: Unit X System** | **Test Date: 11/12/18** |
| **Test Case ID#: TC-Shi20** | **Name(s) of Testers: Shi Chen** |
| **Test Description: Test Ballot.getVotes() with a big array with value on the front.** |  |
| **Automated: yes X no** | **Indicate where are you storing the tests (what file) and the name of the method/functions being used.**  Test is stored in BallotTest.java in function void void getVotesBigArrayFront() |
| **Results: Pass X Fail** |  |
|  |  |
| **Preconditions for Test: You are in the src directory.** | |

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| **Step**  **#** | **Test Step**  **Description** | **Test**  **Data** | **Expected**  **Result** | **Actual**  **Result** | **Notes** |
| 1 | Navigate to the src folder |  |  |  |  |
| 2 | Compile all the .java files |  | Compiles | Compiles |  |
| 3 | Execute BallotTest | The test function tests an array with t[0] = 1. | Assert test passes | Assert test passes |  |
|  |  |  | . |  |  |
|  |  |  |  |  |  |

**Post condition(s) for Test:**

None. Test either passes or fails.

|  |  |
| --- | --- |
| **Project Name: Project 1: Voting System Team# 3** | |
| **Test Stage: Unit X System** | **Test Date: 11/12/18** |
| **Test Case ID#: TC-Shi21** | **Name(s) of Testers: Shi Chen** |
| **Test Description: Test Ballot.getVotes() with a big array with value on the middle.** |  |
| **Automated: yes X no** | **Indicate where are you storing the tests (what file) and the name of the method/functions being used.**  Test is stored in BallotTest.java in function void getVotesBigArrayMiddle() |
| **Results: Pass X Fail** |  |
|  |  |
| **Preconditions for Test: You are in the src directory.** | |

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| **Step**  **#** | **Test Step**  **Description** | **Test**  **Data** | **Expected**  **Result** | **Actual**  **Result** | **Notes** |
| 1 | Navigate to the src folder |  |  |  |  |
| 2 | Compile all the .java files |  | Compiles | Compiles |  |
| 3 | Execute BallotTest | The test function tests an array with t[50] = 1. | Assert test passes | Assert test passes |  |
|  |  |  | . |  |  |
|  |  |  |  |  |  |

**Post condition(s) for Test:**

None. Test either passes or fails.

|  |  |
| --- | --- |
| **Project Name: Project 1: Voting System Team# 3** | |
| **Test Stage: Unit X System** | **Test Date: 11/12/18** |
| **Test Case ID#: TC-Shi22** | **Name(s) of Testers: Shi Chen** |
| **Test Description: Test Ballot.getVotes() with a big array with value on the back.** |  |
| **Automated: yes X no** | **Indicate where are you storing the tests (what file) and the name of the method/functions being used.**  Test is stored in BallotTest.java in function void getVotesBigArrayBack() |
| **Results: Pass X Fail** |  |
|  |  |
| **Preconditions for Test: You are in the src directory.** | |

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| --- | --- | --- | --- | --- | --- |
| **Step**  **#** | **Test Step**  **Description** | **Test**  **Data** | **Expected**  **Result** | **Actual**  **Result** | **Notes** |
| 1 | Navigate to the src folder |  |  |  |  |
| 2 | Compile all the .java files |  | Compiles | Compiles |  |
| 3 | Execute BallotTest | The test function tests an array with t[99] = 1. | Assert test passes | Assert test passes |  |
|  |  |  | . |  |  |
|  |  |  |  |  |  |

**Post condition(s) for Test:**

None. Test either passes or fails.

|  |  |
| --- | --- |
| **Project Name: Project 1: Voting System Team# 3** | |
| **Test Stage: Unit X System** | **Test Date: 11/12/18** |
| **Test Case ID#: TC-Shi23** | **Name(s) of Testers: Shi Chen** |
| **Test Description: Test Ballot.getCurRound()** |  |
| **Automated: yes X no** | **Indicate where are you storing the tests (what file) and the name of the method/functions being used.**  Test is stored in BallotTest.java in function void getCurRound() |
| **Results: Pass X Fail** |  |
|  |  |
| **Preconditions for Test: You are in the src directory.** | |

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| --- | --- | --- | --- | --- | --- |
| **Step**  **#** | **Test Step**  **Description** | **Test**  **Data** | **Expected**  **Result** | **Actual**  **Result** | **Notes** |
| 1 | Navigate to the src folder |  |  |  |  |
| 2 | Compile all the .java files |  | Compiles | Compiles |  |
| 3 | Execute BallotTest | Test object begins with round of 1. | Assert test passes | Assert test passes |  |
|  |  |  | . |  |  |
|  |  |  |  |  |  |

**Post condition(s) for Test:**

None. Test either passes or fails.

|  |  |
| --- | --- |
| **Project Name: Project 1: Voting System Team# 3** | |
| **Test Stage: Unit X System** | **Test Date: 11/12/18** |
| **Test Case ID#: TC-Shi24** | **Name(s) of Testers: Shi Chen** |
| **Test Description: Test Ballot.setCurRound(int)** |  |
| **Automated: yes X no** | **Indicate where are you storing the tests (what file) and the name of the method/functions being used.**  Test is stored in BallotTest.java in function void setCurRound() |
| **Results: Pass X Fail** |  |
|  |  |
| **Preconditions for Test: You are in the src directory.** | |

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| --- | --- | --- | --- | --- | --- |
| **Step**  **#** | **Test Step**  **Description** | **Test**  **Data** | **Expected**  **Result** | **Actual**  **Result** | **Notes** |
| 1 | Navigate to the src folder |  |  |  |  |
| 2 | Compile all the .java files |  | Compiles | Compiles |  |
| 3 | Execute BallotTest | Test object has round changed to 10. | Assert test passes | Assert test passes |  |
|  |  |  | . |  |  |
|  |  |  |  |  |  |

**Post condition(s) for Test:**

None. Test either passes or fails.

|  |  |
| --- | --- |
| **Project Name: Project 1: Voting System Team# 3** | |
| **Test Stage: Unit X System** | **Test Date: 11/12/18** |
| **Test Case ID#: TC-Shi25** | **Name(s) of Testers: Shi Chen** |
| **Test Description: TestCandidate.getVotes()** |  |
| **Automated: yes X no** | **Indicate where are you storing the tests (what file) and the name of the method/functions being used.**  Test is stored in CandidateTest.java in function void getVotesTest() |
| **Results: Pass X Fail** |  |
|  |  |
| **Preconditions for Test: You are in the src directory.** | |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Step**  **#** | **Test Step**  **Description** | **Test**  **Data** | **Expected**  **Result** | **Actual**  **Result** | **Notes** |
| 1 | Navigate to the src folder |  |  |  |  |
| 2 | Compile all the .java files |  | Compiles | Compiles |  |
| 3 | Execute CandidateTest | Test object has vote count of 10 | Assert test passes | Assert test passes |  |
|  |  |  | . |  |  |
|  |  |  |  |  |  |

**Post condition(s) for Test:**

None. Test either passes or fails.

|  |  |
| --- | --- |
| **Project Name: Project 1: Voting System Team# 3** | |
| **Test Stage: Unit X System** | **Test Date: 11/12/18** |
| **Test Case ID#: TC-Shi26** | **Name(s) of Testers: Shi Chen** |
| **Test Description: TestCandidate.getVotes() on maximum value.** |  |
| **Automated: yes X no** | **Indicate where are you storing the tests (what file) and the name of the method/functions being used.**  Test is stored in CandidateTest.java in function void getVotesTestMax() |
| **Results: Pass Fail X** |  |
|  |  |
| **Preconditions for Test: You are in the src directory.** | |

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| --- | --- | --- | --- | --- | --- |
| **Step**  **#** | **Test Step**  **Description** | **Test**  **Data** | **Expected**  **Result** | **Actual**  **Result** | **Notes** |
| 1 | Navigate to the src folder |  |  |  |  |
| 2 | Compile all the .java files |  | Compiles | Compiles |  |
| 3 | Execute CandidateTest | Test object tried to set votes to 9223372036854775808 | Assert test passes | Assert test fails |  |
|  |  |  | . |  |  |
|  |  |  |  |  |  |

**Post condition(s) for Test:**

None. Test either passes or fails.

|  |  |
| --- | --- |
| **Project Name: Project 1: Voting System Team# 3** | |
| **Test Stage: Unit X System** | **Test Date: 11/12/18** |
| **Test Case ID#: TC-Shi27** | **Name(s) of Testers: Shi Chen** |
| **Test Description: TestCandidate.setVotes() on maximum value.** |  |
| **Automated: yes X no** | **Indicate where are you storing the tests (what file) and the name of the method/functions being used.**  Test is stored in CandidateTest.java in function void setVotes() |
| **Results: Pass Fail X** |  |
|  |  |
| **Preconditions for Test: You are in the src directory.** | |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Step**  **#** | **Test Step**  **Description** | **Test**  **Data** | **Expected**  **Result** | **Actual**  **Result** | **Notes** |
| 1 | Navigate to the src folder |  |  |  |  |
| 2 | Compile all the .java files |  | Compiles | Compiles |  |
| 3 | Execute CandidateTest | Test object tried to set votes to 9223372036854775808 | Assert test passes | Assert test fails |  |
|  |  |  | . |  |  |
|  |  |  |  |  |  |

**Post condition(s) for Test:**

None. Test either passes or fails.

|  |  |
| --- | --- |
| **Project Name: Project 1: Voting System Team# 3** | |
| **Test Stage: Unit X System** | **Test Date: 11/12/18** |
| **Test Case ID#: TC-Shi28** | **Name(s) of Testers: Shi Chen** |
| **Test Description: TestCandidate.addVotes(int) on reasonable value.** |  |
| **Automated: yes X no** | **Indicate where are you storing the tests (what file) and the name of the method/functions being used.**  Test is stored in CandidateTest.java in function void addVotesNormal() |
| **Results: Pass X Fail** |  |
|  |  |
| **Preconditions for Test: You are in the src directory.** | |

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| --- | --- | --- | --- | --- | --- |
| **Step**  **#** | **Test Step**  **Description** | **Test**  **Data** | **Expected**  **Result** | **Actual**  **Result** | **Notes** |
| 1 | Navigate to the src folder |  |  |  |  |
| 2 | Compile all the .java files |  | Compiles | Compiles |  |
| 3 | Execute CandidateTest | Test object tried to add 1 vote | Assert test passes | Assert test passes |  |
|  |  |  | . |  |  |
|  |  |  |  |  |  |

**Post condition(s) for Test:**

None. Test either passes or fails.

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| --- | --- |
| **Project Name: Project 1: Voting System Team# 3** | |
| **Test Stage: Unit X System** | **Test Date: 11/12/18** |
| **Test Case ID#: TC-Shi29** | **Name(s) of Testers: Shi Chen** |
| **Test Description: TestCandidate.addVotes(int) with normal high value of votes.** |  |
| **Automated: yes X no** | **Indicate where are you storing the tests (what file) and the name of the method/functions being used.**  Test is stored in CandidateTest.java in function void addVotesHigh() |
| **Results: Pass X Fail** |  |
|  |  |
| **Preconditions for Test: You are in the src directory.** | |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Step**  **#** | **Test Step**  **Description** | **Test**  **Data** | **Expected**  **Result** | **Actual**  **Result** | **Notes** |
| 1 | Navigate to the src folder |  |  |  |  |
| 2 | Compile all the .java files |  | Compiles | Compiles |  |
| 3 | Execute CandidateTest | Test object tried to add 1 vote to 1000 votes | Assert test passes | Assert test passes |  |
|  |  |  | . |  |  |
|  |  |  |  |  |  |

**Post condition(s) for Test:**

None. Test either passes or fails.

|  |  |
| --- | --- |
| **Project Name: Project 1: Voting System Team# 3** | |
| **Test Stage: Unit X System** | **Test Date: 11/12/18** |
| **Test Case ID#: TC-Shi30** | **Name(s) of Testers: Shi Chen** |
| **Test Description: Test Candidate.addVotes() on maximum value.** |  |
| **Automated: yes X no** | **Indicate where are you storing the tests (what file) and the name of the method/functions being used.**  Test is stored in CandidateTest.java in function void addVotesBadInput() |
| **Results: Pass Fail X** |  |
|  |  |
| **Preconditions for Test: You are in the src directory.** | |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Step**  **#** | **Test Step**  **Description** | **Test**  **Data** | **Expected**  **Result** | **Actual**  **Result** | **Notes** |
| 1 | Navigate to the src folder |  |  |  |  |
| 2 | Compile all the .java files |  | Compiles | Compiles |  |
| 3 | Execute CandidateTest | Test object tried to add 1 vote to 9223372036854775807 | Assert test passes | Assert test fails |  |
|  |  |  | . |  |  |
|  |  |  |  |  |  |

**Post condition(s) for Test:**

None. Test either passes or fails.

|  |  |
| --- | --- |
| **Project Name: Project 1: Voting System Team# 3** | |
| **Test Stage: Unit X System** | **Test Date: 11/12/18** |
| **Test Case ID#: TC-Shi26** | **Name(s) of Testers: Shi Chen** |
| **Test Description: TestCandidate.getVotes() on maximum value.** |  |
| **Automated: yes X no** | **Indicate where are you storing the tests (what file) and the name of the method/functions being used.**  Test is stored in CandidateTest.java in function void getVotesTestMax() |
| **Results: Pass Fail X** |  |
|  |  |
| **Preconditions for Test: You are in the src directory.** | |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Step**  **#** | **Test Step**  **Description** | **Test**  **Data** | **Expected**  **Result** | **Actual**  **Result** | **Notes** |
| 1 | Navigate to the src folder |  |  |  |  |
| 2 | Compile all the .java files |  | Compiles | Compiles |  |
| 3 | Execute CandidateTest | Test object tried to set votes to 9223372036854775808 | Assert test passes | Assert test fails |  |
|  |  |  | . |  |  |
|  |  |  |  |  |  |

**Post condition(s) for Test:**

None. Test either passes or fails.

|  |  |
| --- | --- |
| **Project Name: Project 1: Voting System Team# 3** | |
| **Test Stage: Unit X System** | **Test Date: 11/12/18** |
| **Test Case ID#: TC-Shi31** | **Name(s) of Testers: Shi Chen** |
| **Test Description: TestCandidate.Reset()** |  |
| **Automated: yes X no** | **Indicate where are you storing the tests (what file) and the name of the method/functions being used.**  Test is stored in CandidateTest.java in function void Reset() |
| **Results: Pass X Fail** |  |
|  |  |
| **Preconditions for Test: You are in the src directory.** | |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Step**  **#** | **Test Step**  **Description** | **Test**  **Data** | **Expected**  **Result** | **Actual**  **Result** | **Notes** |
| 1 | Navigate to the src folder |  |  |  |  |
| 2 | Compile all the .java files |  | Compiles | Compiles |  |
| 3 | Execute CandidateTest | Test object tried to reset itself | Assert test passes | Assert test passes |  |
|  |  |  | . |  |  |
|  |  |  |  |  |  |

**Post condition(s) for Test:**

None. Test either passes or fails.

|  |  |
| --- | --- |
| **Project Name: Project 1: Voting System Team# 3** | |
| **Test Stage: Unit X System** | **Test Date: 11/12/18** |
| **Test Case ID#: TC-Shi32** | **Name(s) of Testers: Shi Chen** |
| **Test Description: TestCandidate.** **addBallot()**  **on maximum value.** |  |
| **Automated: yes X no** | **Indicate where are you storing the tests (what file) and the name of the method/functions being used.**  Test is stored in CandidateTest.java in function void addBallot() |
| **Results: Pass X Fail** |  |
|  |  |
| **Preconditions for Test: You are in the src directory.** | |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Step**  **#** | **Test Step**  **Description** | **Test**  **Data** | **Expected**  **Result** | **Actual**  **Result** | **Notes** |
| 1 | Navigate to the src folder |  |  |  |  |
| 2 | Compile all the .java files |  | Compiles | Compiles |  |
| 3 | Execute CandidateTest | Add a Ballot object to a Candidate’s collection. | Assert test passes | Assert test passes |  |
|  |  |  | . |  |  |
|  |  |  |  |  |  |

**Post condition(s) for Test:**

None. Test either passes or fails.

|  |  |
| --- | --- |
| **Project Name: Project 1: Voting System Team# 3** | |
| **Test Stage: Unit X System** | **Test Date: 11/12/18** |
| **Test Case ID#: TC-Shi33** | **Name(s) of Testers: Shi Chen** |
| **Test Description: TestCandidate.setBallots(ArrayList<Ballots>) on new list.** |  |
| **Automated: yes X no** | **Indicate where are you storing the tests (what file) and the name of the method/functions being used.**  Test is stored in CandidateTest.java in function void setBallots() |
| **Results: Pass Fail X** |  |
|  |  |
| **Preconditions for Test: You are in the src directory.** | |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Step**  **#** | **Test Step**  **Description** | **Test**  **Data** | **Expected**  **Result** | **Actual**  **Result** | **Notes** |
| 1 | Navigate to the src folder |  |  |  |  |
| 2 | Compile all the .java files |  | Compiles | Compiles |  |
| 3 | Execute CandidateTest | Setting new ballots should change the ballots list and the vote count | Assert test passes | Assert test fails | Does not change votes count |
|  |  |  | . |  |  |
|  |  |  |  |  |  |

**Post condition(s) for Test:**

None. Test either passes or fails.

|  |  |
| --- | --- |
| **Project Name: Project 1: Voting System Team# 3** | |
| **Test Stage: Unit X System** | **Test Date: 11/12/18** |
| **Test Case ID#: TC-Shi34** | **Name(s) of Testers: Shi Chen** |
| **Test Description: TestCandidate.getBallot()** |  |
| **Automated: yes X no** | **Indicate where are you storing the tests (what file) and the name of the method/functions being used.**  Test is stored in CandidateTest.java in function void getBallots() |
| **Results: Pass X Fail** |  |
|  |  |
| **Preconditions for Test: You are in the src directory.** | |

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| --- | --- | --- | --- | --- | --- |
| **Step**  **#** | **Test Step**  **Description** | **Test**  **Data** | **Expected**  **Result** | **Actual**  **Result** | **Notes** |
| 1 | Navigate to the src folder |  |  |  |  |
| 2 | Compile all the .java files |  | Compiles | Compiles |  |
| 3 | Execute CandidateTest |  | Assert test passes | Assert test passes |  |
|  |  |  | . |  |  |
|  |  |  |  |  |  |

**Post condition(s) for Test:**

None. Test either passes or fails.

|  |  |
| --- | --- |
| **Project Name: Project 1: Voting System Team# 3** | |
| **Test Stage: Unit X System** | **Test Date: 11/12/18** |
| **Test Case ID#: TC-Shi35** | **Name(s) of Testers: Shi Chen** |
| **Test Description: Test Candidate.toString() returns a string.** |  |
| **Automated: yes X no** | **Indicate where are you storing the tests (what file) and the name of the method/functions being used.**  Test is stored in CandidateTest.java in function void toString() |
| **Results: Pass X Fail** |  |
|  |  |
| **Preconditions for Test: You are in the src directory.** | |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Step**  **#** | **Test Step**  **Description** | **Test**  **Data** | **Expected**  **Result** | **Actual**  **Result** | **Notes** |
| 1 | Navigate to the src folder |  |  |  |  |
| 2 | Compile all the .java files |  | Compiles | Compiles |  |
| 3 | Execute CandidateTest |  | Assert test passes | Assert test passes |  |
|  |  |  | . |  |  |
|  |  |  |  |  |  |

**Post condition(s) for Test:**

None. Test either passes or fails.

|  |  |
| --- | --- |
| **Project Name: Project 1: Voting System Team# 3** | |
| **Test Stage: Unit X System** | **Test Date: 11/12/18** |
| **Test Case ID#: TC-Shi36** | **Name(s) of Testers: Shi Chen** |
| **Test Description: TestCandidate.getParty()**  **After constructor.** |  |
| **Automated: yes X no** | **Indicate where are you storing the tests (what file) and the name of the method/functions being used.**  Test is stored in CandidateTest.java in function void getPartyNull() |
| **Results: Pass Fail X** |  |
|  |  |
| **Preconditions for Test: You are in the src directory.** | |

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| --- | --- | --- | --- | --- | --- |
| **Step**  **#** | **Test Step**  **Description** | **Test**  **Data** | **Expected**  **Result** | **Actual**  **Result** | **Notes** |
| 1 | Navigate to the src folder |  |  |  |  |
| 2 | Compile all the .java files |  | Compiles | Compiles |  |
| 3 | Execute CandidateTest | Candidate instance instantiated. | Assert test passes | Assert test fails | Candidate’s party is set to null on certain constructors. |
|  |  |  | . |  |  |
|  |  |  |  |  |  |

**Post condition(s) for Test:**

None. Test either passes or fails.

|  |  |
| --- | --- |
| **Project Name: Project 1: Voting System Team# 3** | |
| **Test Stage: Unit X System** | **Test Date: 11/12/18** |
| **Test Case ID#: TC-Shi37** | **Name(s) of Testers: Shi Chen** |
| **Test Description: Test Candidate.setParty()** |  |
| **Automated: yes X no** | **Indicate where are you storing the tests (what file) and the name of the method/functions being used.**  Test is stored in CandidateTest.java in function void setParty() |
| **Results: Pass X Fail** |  |
|  |  |
| **Preconditions for Test: You are in the src directory.** | |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Step**  **#** | **Test Step**  **Description** | **Test**  **Data** | **Expected**  **Result** | **Actual**  **Result** | **Notes** |
| 1 | Navigate to the src folder |  |  |  |  |
| 2 | Compile all the .java files |  | Compiles | Compiles |  |
| 3 | Execute CandidateTest |  | Assert test passes | Assert test passes |  |
|  |  |  | . |  |  |
|  |  |  |  |  |  |

**Post condition(s) for Test:**

None. Test either passes or fails.

|  |  |
| --- | --- |
| **Project Name: Project 1: Voting System Team# 3** | |
| **Test Stage: Unit X System** | **Test Date: 11/12/18** |
| **Test Case ID#: TC-Shi38** | **Name(s) of Testers: Shi Chen** |
| **Test Description: Test Candidate.setName()** |  |
| **Automated: yes X no** | **Indicate where are you storing the tests (what file) and the name of the method/functions being used.**  Test is stored in CandidateTest.java in function void voidNameTest() |
| **Results: Pass Fail x** |  |
|  |  |
| **Preconditions for Test: You are in the src directory.** | |

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| --- | --- | --- | --- | --- | --- |
| **Step**  **#** | **Test Step**  **Description** | **Test**  **Data** | **Expected**  **Result** | **Actual**  **Result** | **Notes** |
| 1 | Navigate to the src folder |  |  |  |  |
| 2 | Compile all the .java files |  | Compiles | Compiles |  |
| 3 | Execute CandidateTest | Pass a null to setName() | Assert test passes | Assert test fails | Does not catch null parameters. |
|  |  |  | . |  |  |
|  |  |  |  |  |  |

**Post condition(s) for Test:**

None. Test either passes or fails.

|  |  |
| --- | --- |
| **Project Name: Project 1: Voting System Team# 3** | |
| **Test Stage: Unit X System** | **Test Date: 11/12/18** |
| **Test Case ID#: TC-Shi39** | **Name(s) of Testers: Shi Chen** |
| **Test Description: Test Candidate.setParty()** |  |
| **Automated: yes X no** | **Indicate where are you storing the tests (what file) and the name of the method/functions being used.**  Test is stored in CandidateTest.java in function void voidParty() |
| **Results: Pass X Fail** |  |
|  |  |
| **Preconditions for Test: You are in the src directory.** | |

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| --- | --- | --- | --- | --- | --- |
| **Step**  **#** | **Test Step**  **Description** | **Test**  **Data** | **Expected**  **Result** | **Actual**  **Result** | **Notes** |
| 1 | Navigate to the src folder |  |  |  |  |
| 2 | Compile all the .java files |  | Compiles | Compiles |  |
| 3 | Execute CandidateTest | Add a null object to a Candidate’s collection. | Assert test passes | Assert test passes | Should not have passed. Should never pass a null to collection. |
|  |  |  | . |  |  |
|  |  |  |  |  |  |

**Post condition(s) for Test:**

None. Test either passes or fails.

|  |  |
| --- | --- |
| **Project Name: Project 1: Voting System Team# 3** | |
| **Test Stage: Unit X System** | **Test Date: 11/12/18** |
| **Test Case ID#: TC-Shi40** | **Name(s) of Testers: Shi Chen** |
| **Test Description: TestCandidate.getId()** |  |
| **Automated: yes X no** | **Indicate where are you storing the tests (what file) and the name of the method/functions being used.**  Test is stored in CandidateTest.java in function void getId() |
| **Results: Pass X Fail** |  |
|  |  |
| **Preconditions for Test: You are in the src directory.** | |

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| --- | --- | --- | --- | --- | --- |
| **Step**  **#** | **Test Step**  **Description** | **Test**  **Data** | **Expected**  **Result** | **Actual**  **Result** | **Notes** |
| 1 | Navigate to the src folder |  |  |  |  |
| 2 | Compile all the .java files |  | Compiles | Compiles |  |
| 3 | Execute CandidateTest |  | Assert test passes | Assert test passes |  |
|  |  |  | . |  |  |
|  |  |  |  |  |  |

**Post condition(s) for Test:**

None. Test either passes or fails.

|  |  |
| --- | --- |
| **Project Name: Project 1: Voting System Team# 3** | |
| **Test Stage: Unit X System** | **Test Date: 11/12/18** |
| **Test Case ID#: TC-Shi41** | **Name(s) of Testers: Shi Chen** |
| **Test Description: TestCandidate.getStatus()** |  |
| **Automated: yes X no** | **Indicate where are you storing the tests (what file) and the name of the method/functions being used.**  Test is stored in CandidateTest.java in function void getStatus() |
| **Results: Pass X Fail** |  |
|  |  |
| **Preconditions for Test: You are in the src directory.** | |

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| --- | --- | --- | --- | --- | --- |
| **Step**  **#** | **Test Step**  **Description** | **Test**  **Data** | **Expected**  **Result** | **Actual**  **Result** | **Notes** |
| 1 | Navigate to the src folder |  |  |  |  |
| 2 | Compile all the .java files |  | Compiles | Compiles |  |
| 3 | Execute CandidateTest |  | Assert test passes | Assert test passes |  |
|  |  |  | . |  |  |
|  |  |  |  |  |  |

**Post condition(s) for Test:**

None. Test either passes or fails.

|  |  |
| --- | --- |
| **Project Name: Project 1: Voting System Team# 3** | |
| **Test Stage: Unit X System** | **Test Date: 11/12/18** |
| **Test Case ID#: TC-Shi42** | **Name(s) of Testers: Shi Chen** |
| **Test Description: TestCandidate.getName()** |  |
| **Automated: yes X no** | **Indicate where are you storing the tests (what file) and the name of the method/functions being used.**  Test is stored in CandidateTest.java in function void getName() |
| **Results: Pass X Fail** |  |
|  |  |
| **Preconditions for Test: You are in the src directory.** | |

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| --- | --- | --- | --- | --- | --- |
| **Step**  **#** | **Test Step**  **Description** | **Test**  **Data** | **Expected**  **Result** | **Actual**  **Result** | **Notes** |
| 1 | Navigate to the src folder |  |  |  |  |
| 2 | Compile all the .java files |  | Compiles | Compiles |  |
| 3 | Execute CandidateTest |  | Assert test passes | Assert test passes |  |
|  |  |  | . |  |  |
|  |  |  |  |  |  |

**Post condition(s) for Test:**

None. Test either passes or fails.

|  |  |
| --- | --- |
| **Project Name: Project 1: Voting System Team# 3** | |
| **Test Stage: Unit X System** | **Test Date: 11/12/18** |
| **Test Case ID#: TC-Shi43** | **Name(s) of Testers: Shi Chen** |
| **Test Description: TestCandidate.setId(long)** |  |
| **Automated: yes X no** | **Indicate where are you storing the tests (what file) and the name of the method/functions being used.**  Test is stored in CandidateTest.java in function void setId() |
| **Results: Pass X Fail** |  |
|  |  |
| **Preconditions for Test: You are in the src directory.** | |

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| --- | --- | --- | --- | --- | --- |
| **Step**  **#** | **Test Step**  **Description** | **Test**  **Data** | **Expected**  **Result** | **Actual**  **Result** | **Notes** |
| 1 | Navigate to the src folder |  |  |  |  |
| 2 | Compile all the .java files |  | Compiles | Compiles |  |
| 3 | Execute CandidateTest |  | Assert test passes | Assert test passes |  |
|  |  |  | . |  |  |
|  |  |  |  |  |  |

**Post condition(s) for Test:**

None. Test either passes or fails.

|  |  |
| --- | --- |
| **Project Name: Project 1: Voting System Team# 3** | |
| **Test Stage: Unit X System** | **Test Date: 11/12/18** |
| **Test Case ID#: TC-Shi44** | **Name(s) of Testers: Shi Chen** |
| **Test Description: TestCandidate.setName(String)** |  |
| **Automated: yes X no** | **Indicate where are you storing the tests (what file) and the name of the method/functions being used.**  Test is stored in CandidateTest.java in function void setName() |
| **Results: Pass X Fail** |  |
|  |  |
| **Preconditions for Test: You are in the src directory.** | |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Step**  **#** | **Test Step**  **Description** | **Test**  **Data** | **Expected**  **Result** | **Actual**  **Result** | **Notes** |
| 1 | Navigate to the src folder |  |  |  |  |
| 2 | Compile all the .java files |  | Compiles | Compiles |  |
| 3 | Execute CandidateTest |  | Assert test passes | Assert test passes |  |
|  |  |  | . |  |  |
|  |  |  |  |  |  |

**Post condition(s) for Test:**

None. Test either passes or fails.

|  |  |
| --- | --- |
| **Project Name: Project 1: Voting System Team# 3** | |
| **Test Stage: Unit X System** | **Test Date: 11/12/18** |
| **Test Case ID#: TC-Shi45** | **Name(s) of Testers: Shi Chen** |
| **Test Description: TestCandidate.setStatus(int)** |  |
| **Automated: yes X no** | **Indicate where are you storing the tests (what file) and the name of the method/functions being used.**  Test is stored in CandidateTest.java in function void setStatus() |
| **Results: Pass X Fail** |  |
|  |  |
| **Preconditions for Test: You are in the src directory.** | |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Step**  **#** | **Test Step**  **Description** | **Test**  **Data** | **Expected**  **Result** | **Actual**  **Result** | **Notes** |
| 1 | Navigate to the src folder |  |  |  |  |
| 2 | Compile all the .java files |  | Compiles | Compiles |  |
| 3 | Execute CandidateTest |  | Assert test passes | Assert test passes |  |
|  |  |  | . |  |  |
|  |  |  |  |  |  |

**Post condition(s) for Test:**

None. Test either passes or fails.

|  |  |
| --- | --- |
| **Project Name: Project 1: Voting System Team# 3** | |
| **Test Stage: Unit X System** | **Test Date: 11/12/18** |
| **Test Case ID#: TC-Shi46** | **Name(s) of Testers: Shi Chen** |
| **Test Description: Test Candidate.CompareTo(Candidate)** |  |
| **Automated: yes X no** | **Indicate where are you storing the tests (what file) and the name of the method/functions being used.**  Test is stored in CandidateTest.java in function void compareToEquals() |
| **Results: Pass Fail X** |  |
|  |  |
| **Preconditions for Test: You are in the src directory.** | |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Step**  **#** | **Test Step**  **Description** | **Test**  **Data** | **Expected**  **Result** | **Actual**  **Result** | **Notes** |
| 1 | Navigate to the src folder |  |  |  |  |
| 2 | Compile all the .java files |  | Compiles | Compiles |  |
| 3 | Execute CandidateTest | Another Candidate instance | Assert test passes | Assert test fails | Randomly breaks ties so it should occasionally fail. |
|  |  |  | . |  |  |
|  |  |  |  |  |  |

**Post condition(s) for Test:**

None. Test either passes or fails.

|  |  |
| --- | --- |
| **Project Name: Project 1: Voting System Team# 3** | |
| **Test Stage: Unit X System** | **Test Date: 11/12/18** |
| **Test Case ID#: TC-Shi47** | **Name(s) of Testers: Shi Chen** |
| **Test Description: Test Candidate.CompareTo(Candidate)** |  |
| **Automated: yes X no** | **Indicate where are you storing the tests (what file) and the name of the method/functions being used.**  Test is stored in CandidateTest.java in function void compareToBadValue() |
| **Results: Pass Fail X** |  |
|  |  |
| **Preconditions for Test: You are in the src directory.** | |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Step**  **#** | **Test Step**  **Description** | **Test**  **Data** | **Expected**  **Result** | **Actual**  **Result** | **Notes** |
| 1 | Navigate to the src folder |  |  |  |  |
| 2 | Compile all the .java files |  | Compiles | Compiles |  |
| 3 | Execute CandidateTest | Another Candidate instance with bad vote count (pass limit for long) | Assert test passes | Assert test fails | Does not check negative values |
|  |  |  | . |  |  |
|  |  |  |  |  |  |

**Post condition(s) for Test:**

None. Test either passes or fails.

|  |  |
| --- | --- |
| **Project Name: Project 1: Voting System Team# 3** | |
| **Test Stage: Unit X System** | **Test Date: 11/12/18** |
| **Test Case ID#: TC-Shi48** | **Name(s) of Testers: Shi Chen** |
| **Test Description: Test Party.getTotalCounts ()** |  |
| **Automated: yes X no** | **Indicate where are you storing the tests (what file) and the name of the method/functions being used.**  Test is stored in PartyTest.java in function void getTotalCounts() |
| **Results: Pass X Fail** |  |
|  |  |
| **Preconditions for Test: You are in the src directory.** | |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Step**  **#** | **Test Step**  **Description** | **Test**  **Data** | **Expected**  **Result** | **Actual**  **Result** | **Notes** |
| 1 | Navigate to the src folder |  |  |  |  |
| 2 | Compile all the .java files |  | Compiles | Compiles |  |
| 3 | Execute PartyTest |  | Assert test passes | Assert test passes |  |
|  |  |  | . |  |  |
|  |  |  |  |  |  |

**Post condition(s) for Test:**

None. Test either passes or fails.

|  |  |
| --- | --- |
| **Project Name: Project 1: Voting System Team# 3** | |
| **Test Stage: Unit X System** | **Test Date: 11/12/18** |
| **Test Case ID#: TC-Shi49** | **Name(s) of Testers: Shi Chen** |
| **Test Description: Test Party.setTotalCounts (long)** |  |
| **Automated: yes X no** | **Indicate where are you storing the tests (what file) and the name of the method/functions being used.**  Test is stored in PartyTest.java in function void setTotalCounts() |
| **Results: Pass Fail X** |  |
|  |  |
| **Preconditions for Test: You are in the src directory.** | |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Step**  **#** | **Test Step**  **Description** | **Test**  **Data** | **Expected**  **Result** | **Actual**  **Result** | **Notes** |
| 1 | Navigate to the src folder |  |  |  |  |
| 2 | Compile all the .java files |  | Compiles | Compiles |  |
| 3 | Execute PartyTest | 9223372036854775807L +1 | Assert test passes | Assert test fails | Does not handle oversized longs. |
|  |  |  | . |  |  |
|  |  |  |  |  |  |

**Post condition(s) for Test:**

None. Test either passes or fails.

|  |  |
| --- | --- |
| **Project Name: Project 1: Voting System Team# 3** | |
| **Test Stage: Unit X System** | **Test Date: 11/12/18** |
| **Test Case ID#: TC-Shi50** | **Name(s) of Testers: Shi Chen** |
| **Test Description: Test Party.setSeatCounts (long)** |  |
| **Automated: yes X no** | **Indicate where are you storing the tests (what file) and the name of the method/functions being used.**  Test is stored in PartyTest.java in function void setSeatCounts() |
| **Results: Pass Fail X** |  |
|  |  |
| **Preconditions for Test: You are in the src directory.** | |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Step**  **#** | **Test Step**  **Description** | **Test**  **Data** | **Expected**  **Result** | **Actual**  **Result** | **Notes** |
| 1 | Navigate to the src folder |  |  |  |  |
| 2 | Compile all the .java files |  | Compiles | Compiles |  |
| 3 | Execute PartyTest | 9223372036854775807L +1 | Assert test passes | Assert test fails | Does not handle oversized longs. |
|  |  |  | . |  |  |
|  |  |  |  |  |  |

**Post condition(s) for Test:**

None. Test either passes or fails.

|  |  |
| --- | --- |
| **Project Name: Project 1: Voting System Team# 3** | |
| **Test Stage: Unit X System** | **Test Date: 11/12/18** |
| **Test Case ID#: TC-Shi51** | **Name(s) of Testers: Shi Chen** |
| **Test Description: Test Party.getSeatCounts()** |  |
| **Automated: yes X no** | **Indicate where are you storing the tests (what file) and the name of the method/functions being used.**  Test is stored in PartyTest.java in function void getSeatCounts() |
| **Results: Pass X Fail** |  |
|  |  |
| **Preconditions for Test: You are in the src directory.** | |

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| --- | --- | --- | --- | --- | --- |
| **Step**  **#** | **Test Step**  **Description** | **Test**  **Data** | **Expected**  **Result** | **Actual**  **Result** | **Notes** |
| 1 | Navigate to the src folder |  |  |  |  |
| 2 | Compile all the .java files |  | Compiles | Compiles |  |
| 3 | Execute PartyTest |  | Assert test passes | Assert test passes |  |
|  |  |  | . |  |  |
|  |  |  |  |  |  |

**Post condition(s) for Test:**

None. Test either passes or fails.

|  |  |
| --- | --- |
| **Project Name: Project 1: Voting System Team# 3** | |
| **Test Stage: Unit X System** | **Test Date: 11/12/18** |
| **Test Case ID#: TC-Shi52** | **Name(s) of Testers: Shi Chen** |
| **Test Description: Test Party.compareTo(Party) with overflowed value.** |  |
| **Automated: yes X no** | **Indicate where are you storing the tests (what file) and the name of the method/functions being used.**  Test is stored in PartyTest.java in function void compareToEqualsBadValue() |
| **Results: Pass Fail X** |  |
|  |  |
| **Preconditions for Test: You are in the src directory.** | |

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| --- | --- | --- | --- | --- | --- |
| **Step**  **#** | **Test Step**  **Description** | **Test**  **Data** | **Expected**  **Result** | **Actual**  **Result** | **Notes** |
| 1 | Navigate to the src folder |  |  |  |  |
| 2 | Compile all the .java files |  | Compiles | Compiles |  |
| 3 | Execute PartyTest |  | Assert test passes | Assert test fails | Does not handle overflow |
|  |  |  | . |  |  |
|  |  |  |  |  |  |

**Post condition(s) for Test:**

None. Test either passes or fails.

|  |  |
| --- | --- |
| **Project Name: Project 1: Voting System Team# 3** | |
| **Test Stage: Unit X System** | **Test Date: 11/12/18** |
| **Test Case ID#: TC-Shi53** | **Name(s) of Testers: Shi Chen** |
| **Test Description: Test Party.compareTo(Party) with equal value on vote count.** |  |
| **Automated: yes X no** | **Indicate where are you storing the tests (what file) and the name of the method/functions being used.**  Test is stored in PartyTest.java in function void compareToEquals() |
| **Results: Pass Fail X** |  |
|  |  |
| **Preconditions for Test: You are in the src directory.** | |

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| **Step**  **#** | **Test Step**  **Description** | **Test**  **Data** | **Expected**  **Result** | **Actual**  **Result** | **Notes** |
| 1 | Navigate to the src folder |  |  |  |  |
| 2 | Compile all the .java files |  | Compiles | Compiles |  |
| 3 | Execute PartyTest |  | Assert test passes | Assert test fails | Fails occasionally because the value returned is random. |
|  |  |  | . |  |  |
|  |  |  |  |  |  |

**Post condition(s) for Test:**

None. Test either passes or fails.

|  |  |
| --- | --- |
| **Project Name: Project 1: Voting System Team# 3** | |
| **Test Stage: Unit X System** | **Test Date: 11/12/18** |
| **Test Case ID#: TC-Shi54** | **Name(s) of Testers: Shi Chen** |
| **Test Description: Test Party.addSeats(1) with overflowed value.** |  |
| **Automated: yes X no** | **Indicate where are you storing the tests (what file) and the name of the method/functions being used.**  Test is stored in PartyTest.java in function void addSeats() |
| **Results: Pass Fail X** |  |
|  |  |
| **Preconditions for Test: You are in the src directory.** | |

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| --- | --- | --- | --- | --- | --- |
| **Step**  **#** | **Test Step**  **Description** | **Test**  **Data** | **Expected**  **Result** | **Actual**  **Result** | **Notes** |
| 1 | Navigate to the src folder |  |  |  |  |
| 2 | Compile all the .java files |  | Compiles | Compiles |  |
| 3 | Execute PartyTest |  | Assert test passes | Assert test fails | Does not handle overflow |
|  |  |  | . |  |  |
|  |  |  |  |  |  |

**Post condition(s) for Test:**

None. Test either passes or fails.

|  |  |
| --- | --- |
| **Project Name: Project 1: Voting System Team# 3** | |
| **Test Stage: Unit X System** | **Test Date: 11/12/18** |
| **Test Case ID#: TC-Shi55** | **Name(s) of Testers: Shi Chen** |
| **Test Description: Test Party.addTotalCounts(1) with overflowed value.** |  |
| **Automated: yes X no** | **Indicate where are you storing the tests (what file) and the name of the method/functions being used.**  Test is stored in PartyTest.java in function void addTotalCounts() |
| **Results: Pass Fail X** |  |
|  |  |
| **Preconditions for Test: You are in the src directory.** | |

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| --- | --- | --- | --- | --- | --- |
| **Step**  **#** | **Test Step**  **Description** | **Test**  **Data** | **Expected**  **Result** | **Actual**  **Result** | **Notes** |
| 1 | Navigate to the src folder |  |  |  |  |
| 2 | Compile all the .java files |  | Compiles | Compiles |  |
| 3 | Execute PartyTest |  | Assert test passes | Assert test fails | Does not handle overflow |
|  |  |  | . |  |  |
|  |  |  |  |  |  |

**Post condition(s) for Test:**

None. Test either passes or fails.

|  |  |
| --- | --- |
| **Project Name: Project 1: Voting System Team# 3** | |
| **Test Stage: Unit X System** | **Test Date: 11/12/18** |
| **Test Case ID#: TC-Shi56** | **Name(s) of Testers: Shi Chen** |
| **Test Description: Test Party.setCandidates(Candidate) with null value** |  |
| **Automated: yes X no** | **Indicate where are you storing the tests (what file) and the name of the method/functions being used.**  Test is stored in PartyTest.java in function void setCandidates() |
| **Results: Pass Fail X** |  |
|  |  |
| **Preconditions for Test: You are in the src directory.** | |

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| --- | --- | --- | --- | --- | --- |
| **Step**  **#** | **Test Step**  **Description** | **Test**  **Data** | **Expected**  **Result** | **Actual**  **Result** | **Notes** |
| 1 | Navigate to the src folder |  |  |  |  |
| 2 | Compile all the .java files |  | Compiles | Compiles |  |
| 3 | Execute PartyTest |  | Assert test passes | Assert test fails | Does not handle null values for setter. |
|  |  |  | . |  |  |
|  |  |  |  |  |  |

**Post condition(s) for Test:**

None. Test either passes or fails.

|  |  |
| --- | --- |
| **Project Name: Project 1: Voting System Team# 3** | |
| **Test Stage: Unit X System** | **Test Date: 11/12/18** |
| **Test Case ID#: TC-Shi57** | **Name(s) of Testers: Shi Chen** |
| **Test Description: Test Party.getCandidates() after adding a Candidate.** |  |
| **Automated: yes X no** | **Indicate where are you storing the tests (what file) and the name of the method/functions being used.**  Test is stored in PartyTest.java in function void getCandidates() |
| **Results: Pass X Fail** |  |
|  |  |
| **Preconditions for Test: You are in the src directory.** | |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Step**  **#** | **Test Step**  **Description** | **Test**  **Data** | **Expected**  **Result** | **Actual**  **Result** | **Notes** |
| 1 | Navigate to the src folder |  |  |  |  |
| 2 | Compile all the .java files |  | Compiles | Compiles |  |
| 3 | Execute PartyTest |  | Assert test passes | Assert test fails | Does not handle null values for setter. |
|  |  |  | . |  |  |
|  |  |  |  |  |  |

**Post condition(s) for Test:**

None. Test either passes or fails.

|  |  |
| --- | --- |
| **Project Name: Project 1: Voting System Team# 3** | |
| **Test Stage: Unit X System** | **Test Date: 11/12/18** |
| **Test Case ID#: TC-Shi58** | **Name(s) of Testers: Shi Chen** |
| **Test Description: Test Party.addCandidate() will null value.** |  |
| **Automated: yes X no** | **Indicate where are you storing the tests (what file) and the name of the method/functions being used.**  Test is stored in PartyTest.java in function void addCandidate() |
| **Results: Pass Fail X** |  |
|  |  |
| **Preconditions for Test: You are in the src directory.** | |

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| --- | --- | --- | --- | --- | --- |
| **Step**  **#** | **Test Step**  **Description** | **Test**  **Data** | **Expected**  **Result** | **Actual**  **Result** | **Notes** |
| 1 | Navigate to the src folder |  |  |  |  |
| 2 | Compile all the .java files |  | Compiles | Compiles |  |
| 3 | Execute PartyTest |  | Assert test passes | Assert test fails | Does not handle null values for adding candidate. |
|  |  |  | . |  |  |
|  |  |  |  |  |  |

**Post condition(s) for Test:**

None. Test either passes or fails.

|  |  |
| --- | --- |
| **Project Name: Project 1: Voting System Team# 3** | |
| **Test Stage: Unit X System** | **Test Date: 11/12/18** |
| **Test Case ID#: TC-Shi59** | **Name(s) of Testers: Shi Chen** |
| **Test Description: Test Party.toString() returns a non empty.** |  |
| **Automated: yes X no** | **Indicate where are you storing the tests (what file) and the name of the method/functions being used.**  Test is stored in PartyTest.java in function void toStringTest() |
| **Results: Pass X Fail** |  |
|  |  |
| **Preconditions for Test: You are in the src directory.** | |

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| --- | --- | --- | --- | --- | --- |
| **Step**  **#** | **Test Step**  **Description** | **Test**  **Data** | **Expected**  **Result** | **Actual**  **Result** | **Notes** |
| 1 | Navigate to the src folder |  |  |  |  |
| 2 | Compile all the .java files |  | Compiles | Compiles |  |
| 3 | Execute PartyTest |  | Assert test passes | Assert test passes |  |
|  |  |  | . |  |  |
|  |  |  |  |  |  |

**Post condition(s) for Test:**

None. Test either passes or fails.

|  |  |
| --- | --- |
| **Project Name: Project 1: Voting System Team# 3** | |
| **Test Stage: Unit X System** | **Test Date: 11/12/18** |
| **Test Case ID#: TC-Shi60** | **Name(s) of Testers: Shi Chen** |
| **Test Description: Test Party.getName() returns a non empty.** |  |
| **Automated: yes X no** | **Indicate where are you storing the tests (what file) and the name of the method/functions being used.**  Test is stored in PartyTest.java in function void getName() |
| **Results: Pass X Fail** |  |
|  |  |
| **Preconditions for Test: You are in the src directory.** | |

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| --- | --- | --- | --- | --- | --- |
| **Step**  **#** | **Test Step**  **Description** | **Test**  **Data** | **Expected**  **Result** | **Actual**  **Result** | **Notes** |
| 1 | Navigate to the src folder |  |  |  |  |
| 2 | Compile all the .java files |  | Compiles | Compiles |  |
| 3 | Execute PartyTest |  | Assert test passes | Assert test passes |  |
|  |  |  | . |  |  |
|  |  |  |  |  |  |

**Post condition(s) for Test:**

None. Test either passes or fails.

|  |  |
| --- | --- |
| **Project Name: Project 1: Voting System Team# 3** | |
| **Test Stage: Unit X System** | **Test Date: 11/12/18** |
| **Test Case ID#: TC-Shi61** | **Name(s) of Testers: Shi Chen** |
| **Test Description: Test Party.setName(String) will null value.** |  |
| **Automated: yes X no** | **Indicate where are you storing the tests (what file) and the name of the method/functions being used.**  Test is stored in PartyTest.java in function void setName() |
| **Results: Pass Fail X** |  |
|  |  |
| **Preconditions for Test: You are in the src directory.** | |

|  |  |  |  |  |  |
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| **Step**  **#** | **Test Step**  **Description** | **Test**  **Data** | **Expected**  **Result** | **Actual**  **Result** | **Notes** |
| 1 | Navigate to the src folder |  |  |  |  |
| 2 | Compile all the .java files |  | Compiles | Compiles |  |
| 3 | Execute PartyTest |  | Assert test passes | Assert test fails | Does not handle null names. |
|  |  |  | . |  |  |
|  |  |  |  |  |  |

**Post condition(s) for Test:**

None. Test either passes or fails.

|  |  |
| --- | --- |
| **Project Name: Project 1: Voting System Team# 3** | |
| **Test Stage: Unit X System** | **Test Date: 11/12/18** |
| **Test Case ID#: TC-Shi62** | **Name(s) of Testers: Shi Chen** |
| **Test Description: Test Util.getFirstLine(String) with first line not “OPL” or “IR”** |  |
| **Automated: yes X no** | **Indicate where are you storing the tests (what file) and the name of the method/functions being used.**  Test is stored in UtilTest.java in function void getFirstLine () |
| **Results: Pass Fail X** |  |
|  |  |
| **Preconditions for Test: You are in the src directory.** | |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Step**  **#** | **Test Step**  **Description** | **Test**  **Data** | **Expected**  **Result** | **Actual**  **Result** | **Notes** |
| 1 | Move auditrand3.csv from testing folder to src folder |  |  |  |  |
| 2 | Compile all the .java files |  | Compiles | Compiles |  |
| 3 | Execute UtilTest | Auditrand3.csv | Assert test passes | Assert test fails | Does not handle files where first line is not OPL or IR |
|  |  |  | . |  |  |
|  |  |  |  |  |  |

**Post condition(s) for Test:**

None. Test either passes or fails.

|  |  |
| --- | --- |
| **Project Name: Project 1: Voting System Team# 3** | |
| **Test Stage: Unit X System** | **Test Date: 11/12/18** |
| **Test Case ID#: TC-Shi63** | **Name(s) of Testers: Shi Chen** |
| **Test Description: Test Util.getFirstLine(String) with first line “OPL” or “IR”** |  |
| **Automated: yes X no** | **Indicate where are you storing the tests (what file) and the name of the method/functions being used.**  Test is stored in UtilTest.java in function void getFirstLine Normal() |
| **Results: Pass Fail X** |  |
|  |  |
| **Preconditions for Test: You are in the src directory.** | |

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| --- | --- | --- | --- | --- | --- |
| **Step**  **#** | **Test Step**  **Description** | **Test**  **Data** | **Expected**  **Result** | **Actual**  **Result** | **Notes** |
| 1 | Move auditrand2.csv from testing folder to src folder |  |  |  |  |
| 2 | Compile all the .java files |  | Compiles | Compiles |  |
| 3 | Execute UtilTest | Auditrand2.csv | First line read was “OPL” | First line read was “OPL” |  |
|  |  |  | . |  |  |
|  |  |  |  |  |  |

**Post condition(s) for Test:**

None. Test either passes or fails.

|  |  |
| --- | --- |
| **Project Name: Project 1: Voting System Team# 3** | |
| **Test Stage: Unit X System** | **Test Date: 11/12/18** |
| **Test Case ID#: TC-Hong02** | **Name(s) of Testers: Qing Hong** |
| **Test Description: Test IRVoting.parseInputFile(String) to see if the correct number of candidates and ballots were read.** |  |
| **Automated: yes X no** | **Indicate where are you storing the tests (what file) and the name of the method/functions being used.**  Test is stored in IRVotingTest.java in function void testParseInputFileIR() |
| **Results: Pass X Fail** |  |
|  |  |
| **Preconditions for Test: You are in the src directory.** | |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Step**  **#** | **Test Step**  **Description** | **Test**  **Data** | **Expected**  **Result** | **Actual**  **Result** | **Notes** |
| 1 | Move irTest1.csv from testing folder to src folder |  |  |  |  |
| 2 | Compile all the .java files |  | Compiles | Compiles |  |
| 3 | Execute IRVotingTest | irTest1.csv | 6 ballots and 4 candidates were read. | 6 ballots and 4 candidates were read. |  |
|  |  |  | . |  |  |

|  |  |
| --- | --- |
| **Project Name: Project 1: Voting System Team# 3** | |
| **Test Stage: Unit X System** | **Test Date: 11/12/18** |
| **Test Case ID#: TC-Hong03** | **Name(s) of Testers: Qing Hong** |
| **Test Description: Test IRVoting.run() to see if the correct winner was found.** |  |
| **Automated: yes no X** | **Indicate where are you storing the tests (what file) and the name of the method/functions being used.**  Test is stored in IRVotingTest.java in function void testRun() |
| **Results: Pass X Fail** |  |
|  |  |
| **Preconditions for Test: You are in the src directory.** | |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Step**  **#** | **Test Step**  **Description** | **Test**  **Data** | **Expected**  **Result** | **Actual**  **Result** | **Notes** |
| 1 | Move irTest1.csv from testing folder to src folder |  |  |  |  |
| 2 | Compile all the .java files |  | Compiles | Compiles |  |
| 3 | Execute IRVotingTest | irTest1.csv | Candidate Rosen was the winner | Candidate Rosen was the winner |  |
|  |  |  | . |  |  |

|  |  |
| --- | --- |
| **Project Name: Project 1: Voting System Team# 3** | |
| **Test Stage: Unit X System** | **Test Date: 11/12/18** |
| **Test Case ID#: TC-Shi64** | **Name(s) of Testers: Shi Chen** |
| **Test Description: Test OPLVoting.parseInputFile() to see if file was read with no error.** |  |
| **Automated: yes no X** | **Indicate where are you storing the tests (what file) and the name of the method/functions being used.**  Test is stored in OPLVoting.java in the main() to access the private parseInputFile(String) function. |
| **Results: Pass X Fail** |  |
|  |  |
| **Preconditions for Test: You are in the src directory.** | |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Step**  **#** | **Test Step**  **Description** | **Test**  **Data** | **Expected**  **Result** | **Actual**  **Result** | **Notes** |
| 1 | Move SmallElection1.csv from testing folder to src folder |  |  |  |  |
| 2 | Compile all the .java files |  | Compiles | Compiles |  |
| 3 | Execute OPLVoting | SmallElection1.csv | File read with no error | File read with no error |  |
|  |  |  | . |  |  |

|  |  |
| --- | --- |
| **Project Name: Project 1: Voting System Team# 3** | |
| **Test Stage: Unit X System** | **Test Date: 11/12/18** |
| **Test Case ID#: TC-Shi65** | **Name(s) of Testers: Shi Chen** |
| **Test Description: Test OPLVoting.run() to see if the correct winner was found.** |  |
| **Automated: yes no X** | **Indicate where are you storing the tests (what file) and the name of the method/functions being used.**  Test is stored in OPLVoting.java in function void main() |
| **Results: Pass X Fail** |  |
|  |  |
| **Preconditions for Test: You are in the src directory.** | |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Step**  **#** | **Test Step**  **Description** | **Test**  **Data** | **Expected**  **Result** | **Actual**  **Result** | **Notes** |
| 1 | Move SmallElection3.csv from testing folder to src folder |  |  |  |  |
| 2 | Compile all the .java files |  | Compiles | Compiles |  |
| 3 | Execute OPLVoting | SmallElection3.csv | File read with no error | File read with no error |  |
| 4 | Inspect audit file for correctness |  | 2 biggest parties came out with seats. | 2 biggest parties came out with seats. |  |