

PBI test 1:

Test 01:	Droop Quota functionalities checking
Responsible Member:	Yuhao Li
Inputs	1. Path points to a file that storing data for droop quota algorithm.
Tests:	1. Test for functionality for droop quota algorithm with regular input 2. Test for result which the system returns.
Outputs:	OK

Test 02:	plurality functionalities checking
Responsible Member:	Yuhao Li
Inputs	1. Path points to a file that storing data for plurality algorithm.
Tests:	1. Test for functionality for plurality algorithm with regular input 2. Test for result which the system returns.
Outputs:	OK

Test 03:	Droop Quota functionalities checking
Responsible Member:	Yuhao Li
Inputs	1. Path points to a file that storing ballot need to be

	validated.
Tests:	<ol style="list-style-type: none"> 1. Test for functionality for droop quota algorithm with input contain ballots need to be validated. 2. Test for result which the system returns.
Outputs:	OK

Test 04:	Plurality functionalities checking
Responsible Member:	Yuhao Li
Inputs	<ol style="list-style-type: none"> 1. Path points to a file that storing a large size of data set..
Tests:	<ol style="list-style-type: none"> 1. Test for functionality for plurality algorithm with a large size of data set. 3. Test for result which the system returns.
Outputs:	OK

PBI test 2:

Test 01:	Shuffle mode setting test
Responsible Member:	Yuhao Li
Inputs	<ol style="list-style-type: none"> 1. User mode to determine shuffle option.
Tests:	<ol style="list-style-type: none"> 1. Test for functionality for setting shuffle mode. 2. Test for functionality for setting shuffle mode.

Outputs:	OK
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PBI test 3:

Test 01:	Read file checking
Responsible Member:	Yuhao Li
Inputs	1. Path to a regular file storing data for plurality algorithms
Tests:	<ol style="list-style-type: none"> 1. Test for functionality, which the system can configure number of winner, choice of algorithms though reading the file from the input path. 2. Test for result which the system returns. 3. Test for input where the path points to a existing file.
Outputs:	OK

Test 02:	Read file checking
Responsible Member:	Yuhao Li
Inputs	1. Path to a regular file storing data for droop quota algorithm.
Tests:	<ol style="list-style-type: none"> 1. Test for functionality, which the system can configure number of winner, choice of algorithms though reading the file from the input path. 2. Test for result which the system returns. 3. Test for input where the path points to a existing file.
Outputs:	OK

Test 03:	Read file checking
Responsible	Yuhao Li

Member:	
Inputs	1. Path to a non existing file.
Tests:	1. Test for input which points to a file that is not existed. 2. Test for exception message which is thrown by the the system.
Outputs:	OK

Test 04:	Read file checking
Responsible Member:	Yuhao Li
Inputs	1. Path to a file which contains unexpected choice of algorithm.
Tests:	1. Test for input which points to a file that contains unexpected choice of algorithms. 2. Test for exception message which is thrown by the the system.
Outputs:	OK

Test 05:	Read file checking
Responsible Member:	Yuhao Li
Inputs	1. Path to a file which contains a large size of data set.
Tests:	1. Test for input which points to a file that contains a large size of data set. 2. Test for functionality, which the system can configure number of winner, choice of algorithms though reading the file from the input path. 3. Test for result which the system returns.
Outputs:	OK

PBI test 4:

Test 01:	Give input after prompt
Responsible Member:	Yuhao Li
Inputs	1. Path to run after prompt from the system.
Tests:	1. Test for functionality that the user can give input after system prompt. 2. Test for result the system returns.
Outputs:	OK

```
C:\Users\Owner\Desktop\repo-Team4\Project2\src>java VotingSystem
Please enter the file name:
Plurality1.csv

===== Election Results Using Plurality Algorithm =====
WINNER(S):
F: 3
D: 2

LOSER(S):
A: 2
B: 2
C: 2
E: 0

C:\Users\Owner\Desktop\repo-Team4\Project2\src>
```

Test 02:	Give input in argument
Responsible Member:	Yuhao Li
Inputs	1. Path to a file when calling the system
Tests:	1. Test for functionality that the user can give input when calling the system. 2. Test for result the system returns.

Outputs:	OK
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```
C:\Users\Owner\Desktop\repo-Team4\Project2\src>java VotingSystem plurality1.csv

===== Election Results Using Plurality Algorithm =====
WINNER(S):
F: 3
C: 2

LOSER(S):
A: 2
B: 2
D: 2
E: 0

C:\Users\Owner\Desktop\repo-Team4\Project2\src>
```

PBI test 5:

Test 01:	Ballot validation
Responsible Member:	Yuhao Li
Inputs	1. Path to a file.
Tests:	1. Test for functionality that the system can valid ballot automatically. 2. Test for result the system returns.
Outputs:	OK

```

C:\Users\Owner\Desktop\repo-Team4\Project2\src>java VotingSystem Test1.csv
shuffling...
voters: 19
quota: 5
add voter: 6 to invalidate list
add voter: 12 to invalidate list
add voter: 14 to invalidate list
add voter: 17 to invalidate list
add voter: 18 to invalidate list
add voter: 13 to invalidate list

===== Election Results Using Droop Quota Algorithm =====
WINNER(S):
  B: 5
  A: 5
  D: 3

LOSER(S):
  E: 0
  F: 0
  C: 1
C:\Users\Owner\Desktop\repo-Team4\Project2\src>

```


PBI test 6:

Test 01:	Report file generation
Responsible Member:	Yuhao Li
Inputs	1. Path to a file.
Tests:	1. Test for functionality that the system can generate report automatically. 2. Test for result the system returns.
Outputs:	OK

```
C:\Users\Owner\Desktop\repo-Team4\Project2\src>java VotingSystem droop_quota1.csv
shuffling...
voters: 10
quota: 3

===== Election Results Using Droop Quota Algorithm =====
WINNER(S):
A: 3
B: 3
D: 3

LOSER(S):
C: 0
E: 0
F: 0
```

 output - Notepad

File Edit Format View Help

| ===== Election Information =====

Date: 22/04/2018 13:54:04

Algorithm used: Droop Quota

Candidates : 6

Seats to Fill: 3

Voters Participated: 10

===== Election Result =====

Winner(s) of Election: A B D