

## PBI Rankings

1. Any user stories left over from Project 1
2. Have multiple polling locations (Process multiple ballot files)
  - a. 2-3 hours, if that
3. Invalidate IRV ballots (doesn't include audit file)
  - a. 4-5 hours; testing will be tricky without audit file of invalidated ballots
4. Bring in ballots for PO only election

## PO Election Algorithm

<b>User Stories</b>	As an election official, I want to be able to run a popularity only (PO) election with the system so that I can determine who was the most popular candidate.
<b>Acceptance Criteria</b>	This election algorithm determines the candidate with the most number of votes as the winner. Ties are resolved with a fair coin toss(es).
<b>Definition of Done</b>	This feature meets the acceptance criteria mentioned above. Unit testing, system testing, regression testing, and the documentation for this feature are all completed.
<b>Effort</b>	Medium
<b>PBI Author(s)</b>	Brandon, Jason, Gavin, Kobin

## 4. Process PO Ballots

<b>User Stories</b>	As an election official, I want to be able to give the system a file with a PO election's ballots so that they can be counted to determine the most popular candidate.
<b>Acceptance Criteria</b>	Must be able to read in a csv file by name with the following format: PO Number of candidates Candidates and their parties in form: [name1,party],[name2,party],... Number of ballots Ballot 1 ... Ballot 2 ... etc...

<b>Definition of Done</b>	This feature meets the acceptance criteria mentioned above. Unit testing, system testing, regression testing, and the documentation for this feature are all completed.
<b>Effort</b>	Medium
<b>PBI Author(s)</b>	Brandon, Jason, Gavin, Kobin

## PO Election Stats

<b>User Stories</b>	As an election official I would like to see the stats for the PO at the end of the election so that constituents who voted know how well their candidate did in the election.
<b>Acceptance Criteria</b>	The stats are displayed on the screen that includes the name of winner and loser(s). The percentage of votes each candidate received will be displayed to the screen.
<b>Definition of Done</b>	This feature meets the acceptance criteria mentioned above. Unit testing, system testing, regression testing, and the documentation for this feature are all completed.
<b>Effort</b>	Medium
<b>PBI Author(s)</b>	Brandon, Jason, Gavin, Kobin

## 1. Multiple Input Files

<b>User Stories</b>	As an election official, I want to be able to bring in multiple files so that I can have multiple ballot locations.
<b>Acceptance Criteria</b>	The user can submit multiple CSV files containing ballot info to the voting system. After the user enters a valid filename, they will be prompted if there is another file they would like to add. If yes the file entering process repeats. If not, the program proceeds.
<b>Definition of Done</b>	This feature meets the acceptance criteria mentioned above. Unit testing, system testing, regression testing and the documentation for this feature are all completed. Code refactored appropriately.
<b>Effort</b>	Medium

<b>PBI Author(s)</b>	Brandon, Jason, Gavin, Kobin
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## GUI

<b>User Stories</b>	As an election official, I want to have a GUI so that I can easily select files for running the system.
<b>Acceptance Criteria</b>	A window where the user can type in a filename or look for file(s) on disk using the mouse or arrow keys. This is replacing the text prompt.
<b>Definition of Done</b>	The GUI feature meets the above acceptance criteria. Unit, regression, and system tests regarding this feature are complete. Finally documentation for this feature is complete. Code refactored appropriately.
<b>Effort</b>	High
<b>PBI Author(s)</b>	Brandon, Jason, Gavin, Kobin

## 3. Invalidate IRV Ballots

<b>User Stories</b>	As an election official, I want the system to remove ballots with less than half of the candidates ranked so that we only count valid ballots.
<b>Acceptance Criteria</b>	Invalidate ballots with less than half the number of candidates. If there is an odd number of candidates, this threshold is rounded up to the next whole number. The IR algorithm calculates the results ignoring these invalidated ballots.
<b>Definition of Done</b>	This feature meets the acceptance criteria mentioned above. Unit testing, system testing, regression testing, and the documentation for this feature are all completed. Code refactored appropriately.
<b>Effort</b>	Medium
<b>PBI Author(s)</b>	Brandon, Jason, Gavin, Kobin

## Audit File for Invalidated Ballots

<b>User Stories</b>	As an election official, I want to have a file with the invalidated ballots
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	so that I can see which ballots were invalidated.
<b>Acceptance Criteria</b>	Info of the invalidated ballots should be put in a separate file called “invalidated_dateofelection.xxx”. This info includes the ballot id number and the rankings that exist on the ballot.
<b>Definition of Done</b>	This feature meets the acceptance criteria mentioned above. Unit testing, system testing, regression testing, and the documentation for this feature are all completed. Code refactored appropriately.
<b>Effort</b>	Medium
<b>PBI Author(s)</b>	Brandon, Jason, Gavin, Kobin

### Table of IRV Rounds

<b>User Stories</b>	As an election official, I want to see a table at the end that shows each round of the IRV so that I can see the movement of votes in the election.
<b>Acceptance Criteria</b>	System must be able to generate and display the table that shows the IRV algorithm at each step. It includes the number of votes each candidate gained and subtracted (i.e. which candidate is removed if any) for the round.
<b>Definition of Done</b>	This feature meets the acceptance criteria mentioned above. Unit testing, system testing, regression testing, and the documentation for this feature are all completed. Code refactored appropriately.
<b>Effort</b>	Medium
<b>PBI Author(s)</b>	Brandon, Jason, Gavin, Kobin

### Print Information About Election Report

<b>User Stories</b>	As an election official, I want a short report file in addition to the audit report so that I can print and send it to the election certification officials.
<b>Acceptance Criteria</b>	The system must be able to print the report for OPL and IRV elections with all the information needed to certify the election. This information includes date of the election, type of election, candidates names, number of seats and the winner of the election. No other information is on this

	report.
<b>Definition of Done</b>	This feature meets the acceptance criteria mentioned above. Unit testing, system testing, regression testing, and the documentation for this feature are all completed. Code refactored appropriately.
<b>Effort</b>	Medium
<b>PBI Author(s)</b>	Brandon, Jason, Gavin, Kobin