

The Election Commission of India will be announcing assembly elections for Maharashtra state. The election commission would like to increase the number of voting booths and modernize the voting systems to speed up the counting of votes and declaring winners. They have commissioned you to modernize the system. As part of the modernization, you decide to write a vote counting application to help count the votes and declare the winners across all constituencies using the following as inputs

1. A file containing the list of candidates from across all constituencies
2. A file containing the votes cast by each voter from all the constituencies

The application should conform to the following guidelines that the Election Commission has provided.

**GUIDELINES FOR COUNTING VOTES**

1. There will be at least **200 candidates** contesting from more than **10 constituencies.**
2. One candidate can contest only from one constituency.
3. More than **2 million voters** would exercise their right to vote across **1400 polling stations** throughout the state during the elections.
4. Each Voter can cast only one vote at any available polling station.
5. A Voter not wanting to vote for any available candidates can choose the NOTA (none of the above) option.
6. If a voter casts more than one vote from the same or multiple polling stations, all their votes would be considered disqualified.

**GUIDELINES FOR DECLARING THE WINNERS**

1. For each constituency the candidate with the highest number of votes would be declared the winner.
2. In case there is a tie between two or more candidates the constituency would have no winner
3. In case NOTA has the highest number of votes in a constituency, the candidate with the second highest number of votes would be declared the winner.

**FILE FORMATS**

1. Candidate File: The list of the candidates, along with their constituency, will be provided as a comma-separated-value file named “candidateFile.csv.” Please see the sample attached.
2. Voting File: The votes cast would be provided as a comma-separated-value file named votingFile.csv. Please see the attached sample.
3. Output Format: The output should be in the form of a JSON shown in below output. json.



Vote Counting Application





**Sample Project**

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