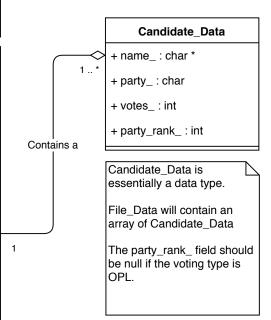
NULL if the current voting type does not require the field. (They should all be filled out per CPL when constructor is finished). Voting_System File Data - data_: File_Data Contains a-- voting_type_: char * 1 - elected_ : Candidate_Data * - num_parties_ : int - party_list_ : Party_Data * + Voting_System() - num_seats_: int + Voting_System(char *) - num_ballots_: int + Audit_File(): void - num_candidates_ : int + Media_File(): void - candidates_ : Candidate_Data * + Display_Winners(): void Contains a quota_ : float + File_Data() Party_Data + File_Data(char *) + name : char * + LoadFile(char *) : void + votes_ : int 1 .. * - Convert_OPL_To_CPL(): void + seats_: int - Generate_Party_Data(): void + candidates_: Candidate_Data * - Check_File(): void + num_candidates_ : int + Break_Tie(int): void Generate_Party_Data assumes the - IsTie(): bool File_Data has all fields filled in as CPL would. This will run Largest Remainder to + get_party_list_() : Party_Data * create and fill in the Party_Data array. + get_voting_type_() : char * Once the Party_Data array is filled in (once constructor is finished) we can select our candidates (Party_Data.seats from each + get_num_parties_(): int party) + get_num_seats_() : int + get_num_ballots_(): int + get_num_candidates_() : int + get_candidates_() : Candidate_Da + get_vote_totals_() : int *

File_Data contains fields for both OPL and CPL, these will be set to

+ get_quota_(): float



When an OPL ballot is found,

We will scan the candidate data, creating values for the num_parties_ and party_list_ fields.
We will then fill in the Candidate_Data

party_rank field based on the votes they receive within their parties.
Once these steps are done, File_Data will be in CPL format (with the voter rankings within each party).