



As shown in the UML diagram, my program consists of four main classes and two subclasses. First, the program will initialize the information of the three parties, including leader and his manager, candidate and his manager and fund manager. Initialize five kinds of issues, electorates concerned. Initialize the corresponding number of electorates and randomly generate each person's supportation for the three parties.

Political parties organize various kinds of local events all over the country every day, but not every event can affect or involve electorates. Each electorate is judged once a day, with a 20% chance of participating in local events in his area. Then randomly generate effect value based on the abilities of party candidate and manager. Effect value will change electorate's supportation for the party holding the event. Local events cost a random amount of money, although it may not affect electorates. Each party generates a random amount of income every day based on the ability of the fund manager. There are three types of local events including candidate debates, candidate-related events, and approach to issues. Candidate debate is an event in which all three parties participate, but only one party will affect electorates, even if

multiple electorates participate in the same debate will produce different results.

On every day of the campaign there is a 30% chance of a national event and randomly generate an event type. All party leaders will participate in the leadership debate, but only the one with the most special performance will affect all electorates, of course it may be that the poor performance has reduced the supportation of electorates. Leader-related events and approach to an issue will affect all voters' supportation for his party.

Last day has national leader debate for final canvassing, this event will cost all remaining funds of each party. In order to focus the voters 'attention, there will be no local incidents today. After the leaders 'debate, the electorates' supportation for parties will be counted. Electorates vote for candidates they support based on his supportation for the three parties. Count and print the support of various parties. If a party has won more than 50% of the electorates, they will form a government and the party leader as the new leader for the country. If no party has won more than 50% of the electorates, there will be a hung parliament.