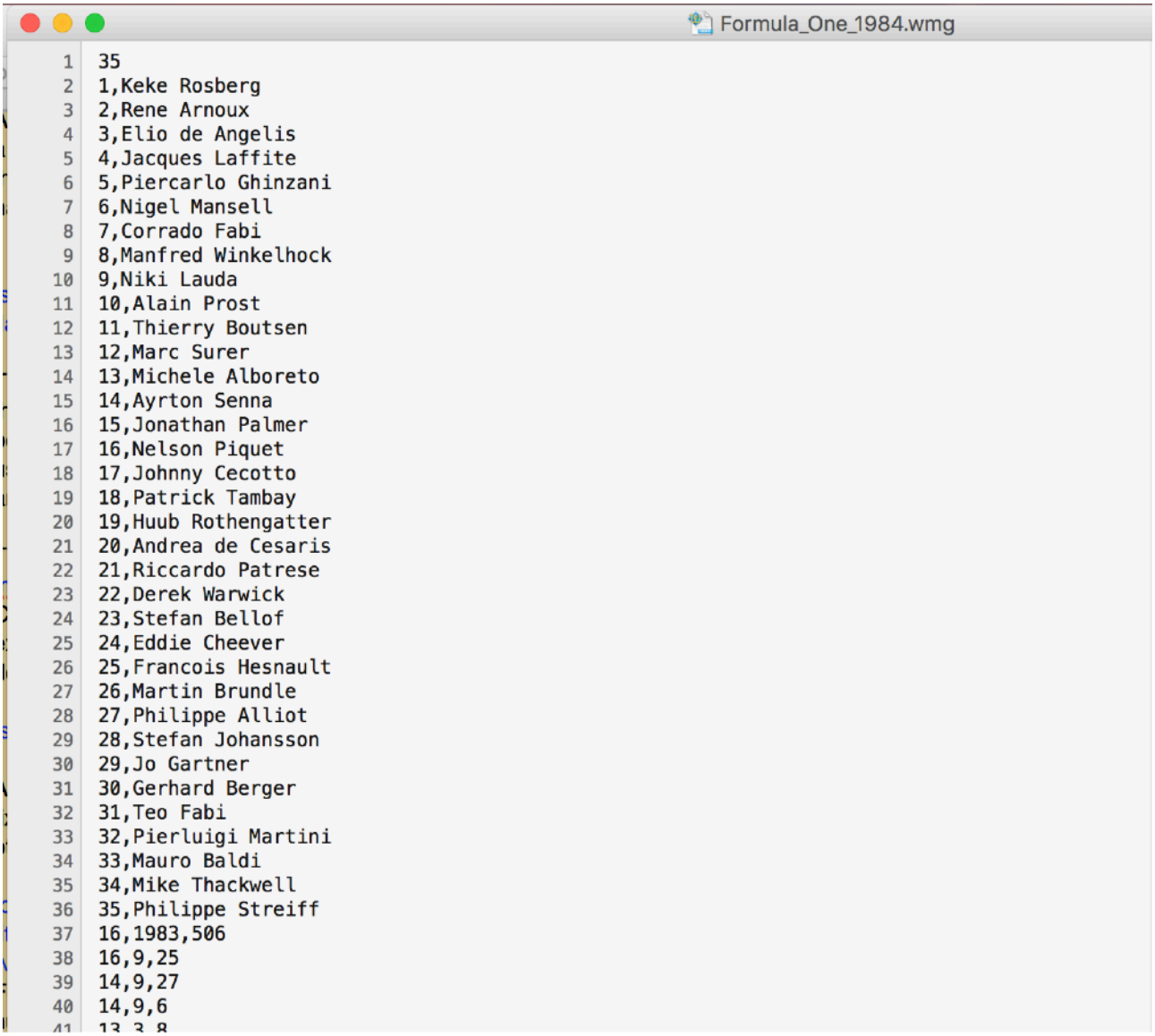
How to read the tournament dataset

The tournament data for this coursework has been obtained from www.preflib.org, a repository of real-world datasets.

The following is a screenshot of the first 40 lines of file `Formula_One_1984.wmg` containing the tournament data for the coursework.



The format can be explained as follows:

- line 1: contains the number of participants in the competition.
- lines 2-36: contain an identifying number for each participant, along with their real names.
- line 37: contains information about *how* the data has been generated. In this particular case the data has been generated using the results of the individual races of the 1984 season of the World Formula One Motor Racing Championship. The line contains three numbers. From left to right they represent: (1) the number of races (in this case 16), (2) the total number of preferences derived from the data, (3) the total number of pairwise match-ups. NOTE: DON'T WORRY TOO MUCH ABOUT THIS LINE. IT DOESN'T REALLY PLAY ANY ROLE FOR THE COURSEWORK.

- The remaining lines in the file are all of the format <weight, edge>. For example line 40 says that the edge in the graph *from* participant #9 *to* participant #6 has weight 14. This is derived from the fact that, in the match-up Niki Lauda vs Nigel Mansell throughout the season, if a is the number of races in which Lauda finished ahead of Mansell, and b is the number of races in which Mansell finished ahead of Lauda, then $a > b$ (so Lauda wins the overall "match") and furthermore $a - b = 14$.