**Sets**:

1. List of teams.
2. Home ground of each team.

**Parameters:**

1. 56: Total number of matches
2. 14: Total number of rounds.
3. 4: Total number of matches played in a round.
4. MI: First match home team.
5. DC: First match away team.
6. Distance between two grounds.

**Variables:**

1. Binary, if plays against in match number in round number , in in
2. Binary, if is travelling from to in round in in

**Constraints:**

1. A match can happen only once.
2. In a match day only one match must happen.
3. A team must play only one match in a round.
4. A team cannot play in two consecutive match days.
5. A team cannot play three consecutive home games or away games.
6. First match is between MI and DC, MI is the home team.
7. A team will travel from one ground to another in a round only if,
   1. Team is playing home game in the current round and away game in the next round.
   2. Team is playing away game in the current round and home game in the next round.
   3. Team is playing away game in current round and away game in the next round.

**Objective:**