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Premises Established:

No. of Teams
No. of Matches
No. of Stadiums available

Money earned for each game played by a team
Teams playing against each other
Ensuring teams play almost equally across stadiums

Goal

To Determine the Venue for each of the matches (Decision Variables)

By Maximizing Money earned from games played (Objective Function)

Approach

- Generate all possible combinations of matches happening at all Stadiums
- Limit number of matches played to the maximum number of matches(given)
- Define Constraints that will restrict a match to be scheduled at a max. of 1 venue
- Ensure a team does not play more games in one location than in the others(DiffMax=2)

Tool: Python3

Linear Programming (Pulp Package)