

GTH - Experiment 4

Aim: Program to implement strategic form elimination of dominant strategy

Theory:

- Strategic form, also known as normal form is a representation in game theory that lists the strategies chosen by the players.
- The elimination of dominant strategy is a concept used to simplify strategic form games by iteratively removing strategies that are clearly suboptimal, regardless of the choices made by other players.
- A dominant strategy is the one that provides a player with a higher payoff than any other strategy, regardless of choices made by the other players.
- The process of elimination begins by identifying and eliminating dominated strategies, which are those that yield a strictly lower payoff than any other available strategy.
- After eliminating these dominant strategies, the game is left with a reduced set of strategies for each player.
- This process helps to focus on the most relevant strategies & outcomes, making it easier to analyze and find equilibrium points in strategic form games.
- Conclusion: Strategy of elimination of dominant strategy has been implemented.