Crame Theory Lab, 4

Aim: Program to implement strategic form ~ elimination of dominant strategy

Theory

- D strategic form, also known as normal form is a representation in game theory that lists the strategies chosen by the players.
- 2) The elimination of dominant strategy is a concept used to simplify strategic form games by iteratively removing strategies that are clearly subaptimal, regardless of the choices made by other players
- 3) A dominant strategy is the one that provides a player with a higher payore than any other strategy, regardless of choices made by the other players
- a) The process of elimination begins by identifying and eliminating dominanted strategies, which are those that yield a strictly lower payoff than any other available strategy.
- s) After eliminating these dominated strategies, the game is left with a reduced set
 of strategies tor each player.
- of this process helps to cours on the most relevant strategies and outcomes, making it easier to analyze and find equilibrium points in strategic form games

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	conclusion
	Strategy of elimination of dominant strategy
	has been implemented.
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Came Theory 6

Pim: Perfect information games: trees, players
assigned to nodes, payoffs, backward induction
and subgame perfect equilibrium.

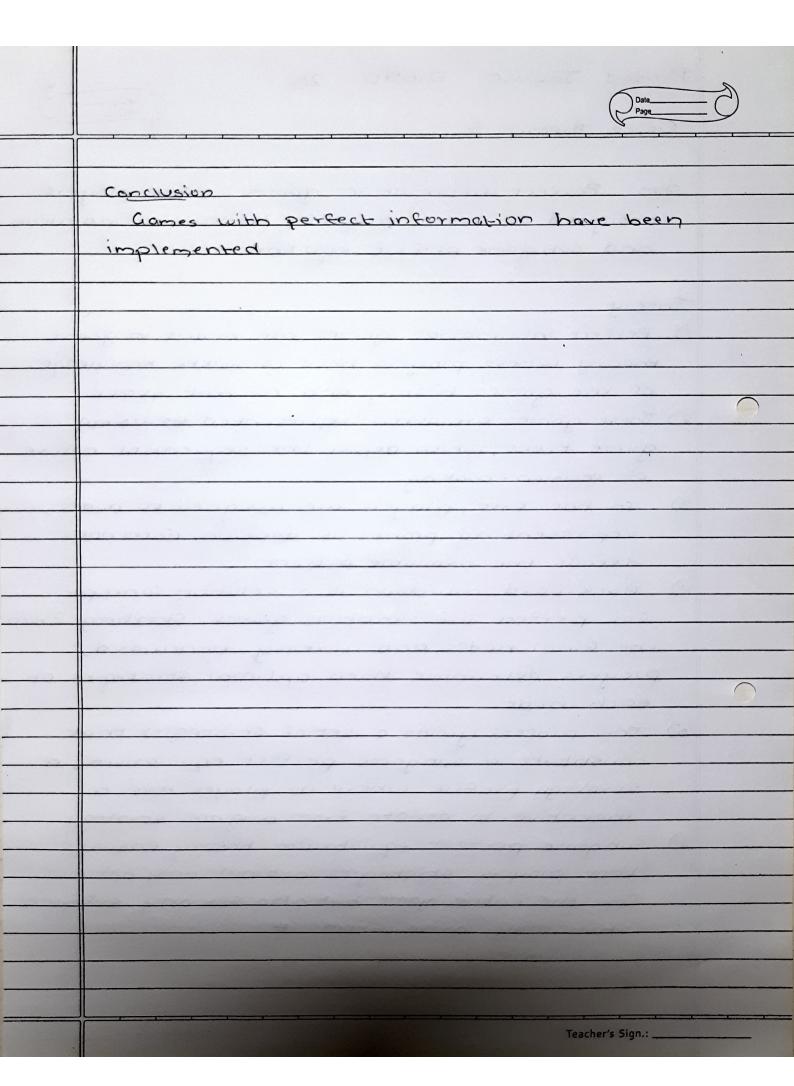
Theory

- 1) Perfect information games are moders in game theory where players have complete Knowledge of the game's history and current state
- 2) These games are often represented as using game trees, which depict the sequential nature of decision-maxing.
- 3) In the tree, players are assigned to nodes, representing points of decision. Each node details the available actions.
- each node.
- 5) This process yields a set of strategies that constitute a subgame perfect equilibrium, a strategy profile where no player has a incentive to deviate from original strategy.
- 6) Subgame perfect equilibrium theory ensures

 that players strategies are not only optimal

 for the entire yome but also for any subgames

 that may arise from it.



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