1-9-DomStrat-2

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Doninates

Strict Si Si + Sit Si . Ui(Si, Si) > Ui(Si, Si)

Very weakly Si Si + Sit Sii, Ui(Si, Si) > Ui(Si, Si)

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1-9-DomStra...





Dominant Strategies

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Dominant Strategies

Domination

• Let s_i and s_i' be two strategies for player i, and let S_{-i} be is the set of all possible strategy profiles for the other players



- What's a "strategy"?
- For now, just choosing an action ("pure strategy")

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Definition $s_{i} \text{ strictly dominates } s'_{i} \text{ if } \forall s_{-i} \in S_{-i}, \underline{u_{i}(s)}, s_{-i}) \triangleright \underline{u_{i}(s'_{i}, s_{-i})}$ Definition $s_{i} \text{ very weakly dominates } s'_{i} \text{ if } \forall s_{-i} \in S_{-i}, \underline{u_{i}(s_{i}, s_{-i})} \triangleright \underline{u_{i}(s'_{i}, s_{-i})}$

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Dominant Strategies

Equilibria and dominance

- If one strategy dominates all others, we say it is dominant.
- A strategy profile consisting of dominant strategies for every player must be a Nash equilibrium.
 - An equilibrium in strictly dominant strategies must be unique.



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Dominant Strategie

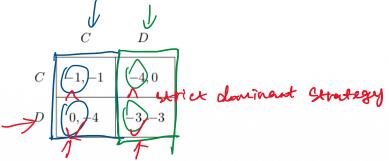
Game

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