

# Computational Game Theory

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*Implementation Exercises on Iterated removal of Dominated Strategies, and Nash Equilibrium in Mixed-Strategies for 2x2 games.*

## 1. Iterated Removal of Strictly Dominated Strategies

Consider the following payoff matrix:

1\2	Left	Middle	Right
Top	3,8	2,0	1,2
Bottom	0,0	1,7	8,2

Using Linear Programming to solve the iterated removal of dominant strategies problem.

## 2. Implementation of Iterated Removal of Strictly Dominated Strategies

Implement a strategy similar to the “RandomStrategy” available in the JAVA Player, except that it includes a pre-processing step that eliminates all strictly dominated strategies.

## 3. Implementation of Nash Equilibrium in Mixed-Strategies for 2x2 games

Extend the previous strategy to return a Nash equilibrium in mixed strategies whenever the strategically equivalent game resulting from the iterated removal of dominant strategies is 2x2.