

Assignment 2: Algorithmic Game Theory

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1. Let A be a $n \times n$ matrix of a matrix game. Prove that, if A is anti-symmetric, then the value of the row player in mixed strategies is 0.

[5 Marks]

2. Let A be a $n \times n$ matrix of a matrix game. Assume A is a latin square; that is, each row and each column of A is a permutation of $\{1, 2, \dots, n\}$. Compute an MSNE of the corresponding matrix game.

[5 Marks]