

Problem Set 2: Decipher Game Theory

Complete your Problem Set 2 in a GitHub repository that you create in the GitHub organization (<https://github.com/Rising-Stars-by-Sunshine>) by forking the template:

<https://github.com/Rising-Stars-by-Sunshine/csecon206-profile>.

- (40%) Please save your completed overleaf as zip file on the GitHub under the code folder.
 - Refer to the detailed requirements: <https://www.overleaf.com/read/skpmkhgvgfsk>
 - Complete the assignment on the shared overleaf project.
- (40%) Please upload your completed Google Colab on the GitHub under the code folder.
 - Find one normal/strategic form matrix game in game theory literature. (10%)
 - Describe the Game in text cells.
 - Solve the Nash equilibrium in code cells.
 - Elaborate on the Nash equilibrium solution in text cells.
 - Find one extensive form game in game theory literature. (20%)
 - Insert the game tree generated by game theory explorer in text cells.
 - Describe the game in text cells.
 - Insert the extreme equilibrium of the strategic form in the text cells.
 - Elaborate on the solutions in the text cells.
 - If your game is an extensive form game of perfect information, please also insert the solution of SPNE in the text cells and briefly describe the solutions.

- (10%) Please briefly describe your project information, structure, and spotlight in the Readme file of the GitHub.

References:

- Markdown instructions:
<https://github.com/Rising-Stars-by-Sunshine/csecon206-profile/blob/main/Instructions%20for%20writing%20markdown.pdf>
- Grading requirements:
https://github.com/Rising-Stars-by-Sunshine/csecon206-profile/blob/main/CSEcon206_%20Requirements_Grading%20Rubric_Spring2023.pdf
- Goeree, Jacob K., and Charles A. Holt. “Ten little treasures of game theory and ten intuitive contradictions.” *American Economic Review* 91, no. 5 (2001): 1402-1422.
- Zhang, L. (Sunshine), Tian, X. (Michelle), Wu, T. (Henry), Li, J., Wang, C. (Claire), Zhuang, Z., ... Zhuang, Z. (2022). Python Packages for Economics: Model and Simulation. In Autumn 2021. <https://doi.org/10.21428/aa21bfc0.841ff112>
 - [\[Sample Questions\]](#)
 - [\[Sample Answers\]](#)