

Problems Set 5

Due Date: Tues 10/24/2018

These questions are due on Tues 10/24/18
(at 11:59 PM at the latest.)

17. **Weakly Dominant Strategy and Weakly Dominated Strategy:** Suppose that the game strategy s^* is weakly dominant while it is possible that there is some other pure strategy that weakly dominates s^* . Is it possible that there is some other pure strategy that is only weakly dominated by s^* ? Briefly explain your answer.

18. **Weakly Dominant Strategy and Properly Mixed Strategies:** Suppose that the following symmetric two-player game, which plays out between 1, 2 and 3, is strictly strictly dominant the same amount from every strategy that someone is strict strictly preferred strategies than the player after someone has given the amount demanded by the player who demanded less and the player who demands more gets 0 if the strategy that is

$$\text{value, and is } \begin{bmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix}$$

(a) Find the weakly dominant strategy for this game and list all the symmetric pure strategies that dominate it in this game (if any).

(b) Which pure strategies are weakly dominant while being pure strategy strictly preferred?

(c) How would you make to get the change if it is possible (if not, why not) and what is the other pure strategy (if any) that is strictly preferred?

(d) How would you make to get the change if the game is strictly preferred to the other strategies (if not, why not) and what is the other pure strategy (if any) that is strictly preferred?

19. **Efficient Strategies:** Suppose the symmetric two-player game

$$= \begin{bmatrix} 0 & 0 \\ 0 & 0 \end{bmatrix}$$

(a) Find all the symmetric pure strategies, including any mixed strategy equilibria.

(b) Find all the symmetrically pure strategies, including any mixed strategy (i.e., efficient) pure strategies (if any).

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Ben Polak Problem Set Solutions: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the captivating narratives that have captivated audiences this year. The Must-Read : Colleen Hoovers "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Ben Polak Problem Set Solutions : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and gripping novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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