

# Solutions to Part I of Game Theory

Thomas S. Ferguson

## Solutions to Section I.1

1. To make your opponent take the last chip, you must leave a pile of size 1. So 1 is a P-position, and then 2, 3, and 4 are N-positions. Then 5 is a P-position, etc. The P-positions are 1, 5, 9, 13, . . . , i.e. the numbers equal to 1 mod 4.

2.(a) The target positions are now 0, 7, 14, 21, etc.; i.e. anything divisible by 7.  
(b) With 31 chips, you should remove 3, leaving 28.

3.(a) The target sums are 3, 10, 17, 24, and 31. If you start by choosing 3 and your opponent chooses 4, and this repeats four times, then the sum is 28, but there are no 3's left. You must choose 1 or 2 and he can then make the sum 31 and so win.

(b) Start with 5. If your opponent chooses 5 to get in the target series, you choose 2, and repeat 2 every time he chooses 5. When the sum is 26, it is his turn and there are no 5's left, so you will win. But if he ever departs from the target series, you can enter the series and win.

4.(a) The P-positions are the even numbers,  $\{0, 2, 4, \dots\}$ .  
(b) The P-positions are  $\{0, 2, 4, 9, 11, 13, 18, 20, 22, \dots\}$ , the nonnegative integers equal to 0, 2, or 4 mod 9.  
(c) The P-positions are  $\{0, 3, 6, 9, \dots\}$ , the nonnegative integers divisible by 3.  
(d) In (a), 100 is a P-position. In (b), 100 is an N-position since  $100 = 1 \pmod 9$ . It can be put into a P-position by subtracting 1 (or 6). In (c), 100 is an N-position. It can be put into a P-position by subtracting 1 (or 4 or 16 or 64).

5. The P-positions are those  $(m, n)$  with both  $m$  and  $n$  odd integers. If  $m$  and  $n$  are both odd, then any move will require putting an odd number of chips in two boxes; one of the two boxes would contain an even number of chips. If one of  $m$  and  $n$  is even, then we can empty the other box and put an odd number of chips in each box.

6. (a) In solving such problems, it is advisable to start the investigation with simpler positions and work up to the more difficult ones. Here are the simplest P-positions.



The last position shows that chomping at  $(3,1)$  is a winning move for the first player.

(b) The proof uses an argument, called "strategy stealing" that is useful in other problems as well. Consider removing the upper right corner. If this is a winning move, we are done. If not, then the second player has a winning reply. But whatever that reply

# Game Theory Solutions

**Jiyuan Zhang**



## **Game Theory Solutions:**

Cooperative Games, Solutions and Applications Theo S. H. Driessen, 2013-03-09 The study of the theory of games was started in Von Neumann 1928 but the development of the theory of games was accelerated after the publication of the classical book Theory of games and economic behavior by Von Neumann and Morgenstern 1944 As an initial step the theory of games aims to put situations of conflict and cooperation into mathematical models In the second and final step the resulting models are analysed on the basis of equitable and mathematical reasonings The conflict and or cooperative situation in question is generally due to the interaction between two or more individuals players Their interaction may lead up to several potential payoffs over which each player has his own preferences Any player attempts to achieve his largest possible payoff but the other players may also exert their influence on the realization of some potential payoff As already mentioned the theory of games consists of two parts a modelling part and a solution part Concerning the modelling part the mathematical models of conflict and cooperative situations are described The description of the models includes the rules the strategy space of any player potential payoffs to the players the preferences of each player over the set of all potential payoffs etc According to the rules it is either permitted or forbidden that the players communicate with one another in order to make binding agreements regarding their mutual actions

Bitcoin: A Game-Theoretic Analysis Micah Warren, 2023-03-06 The definitive guide to the game theoretic and probabilistic underpinning for Bitcoin's security model The book begins with an overview of probability and game theory Nakamoto Consensus is discussed in both practical and theoretical terms This volume Describes attacks and exploits with mathematical justifications including selfish mining Identifies common assumptions such as the Market Fragility Hypothesis establishing a framework for analyzing incentives to attack Outlines the block reward schedule and economics of ASIC mining Discusses how adoption by institutions would fundamentally change the security model Analyzes incentives for double spend and sabotage attacks via stock flow models Overviews coalitional game theory with applications to majority takeover attacks Presents Nash bargaining with application to unregulated environments This book is intended for students or researchers wanting to engage in a serious conversation about the future viability of Bitcoin as a decentralized censorship resistant peer to peer electronic cash system

Algorithmic Game Theory Noam Nisan, Tim Roughgarden, Eva Tardos, Vijay V. Vazirani, 2007-09-24 In recent years game theory has had a substantial impact on computer science especially on Internet and e commerce related issues Algorithmic Game Theory first published in 2007 develops the central ideas and results of this exciting area in a clear and succinct manner More than 40 of the top researchers in this field have written chapters that go from the foundations to the state of the art Basic chapters on algorithmic methods for equilibria mechanism design and combinatorial auctions are followed by chapters on important game theory applications such as incentives and pricing cost sharing information markets and cryptography and security This definitive work will set the tone of research for the next few years and beyond Students

researchers and practitioners alike need to learn more about these fascinating theoretical developments and their widespread practical application

**Solutions Manual to Accompany Game Theory** E. N. Barron, 2013-04-29 An invaluable study aid for students of game theory Solutions Manual to accompany Game Theory An Introduction 2nd Edition provides complete explanations and fully worked solutions for the problems posed in the text Although designed as a supplement to Game Theory this solutions guide is versatile enough to act as an independent review of key topics regardless of which textbook you are using Each solution includes the original question as well as all given data and clear concise language describes the approach and reasoning that yields the correct solution Eighty-nine Exercises with Solutions from Game Theory for the Social Sciences, Second and Revised Edition Hervé Moulin, 1986

**Game Theory Framework Applied to Wireless Communication Networks** Yang, Chungang, Li, Jiandong, 2015-08-26 The popularity of smart phones and other mobile devices has brought about major expansion in the realm of wireless communications With this growth comes the need to improve upon network capacity and overall user experience and game based methods can offer further enhancements in this area Game Theory Framework Applied to Wireless Communication Networks is a pivotal reference source for the latest scholarly research on the application of game theoretic approaches to enhance wireless networking Featuring prevailing coverage on a range of topics relating to the advanced game model mechanism designs and effective equilibrium concepts this publication is an essential reference source for researchers students technology developers and engineers This publication features extensive research based chapters across a broad scope of relevant topics including potential games coalition formation game heterogeneous networks radio resource allocation coverage optimization distributed dynamic resource allocation dynamic spectrum access physical layer security and cooperative video transmission

*Dynamic Noncooperative Game Theory* Bas Ar, 1982-02-02 Dynamic Noncooperative Game Theory

**Durable-Strategies Dynamic Games** David W. K. Yeung, Leon A. Petrosyan, 2022-03-31 Durable strategies that have prolonged effects are prevalent in real world situations Revenue generating investments toxic waste disposal long lived goods regulatory measures coalition agreements diffusion of knowledge advertisement and investments to accumulate physical capital are concrete and common examples of durable strategies This book provides an augmentation of dynamic game theory and advances a new game paradigm with durable strategies in decision making schemes It covers theories solution techniques and the applications of a general class of dynamic games with multiple durable strategies Non cooperative equilibria and cooperative solutions are derived along with advanced topics including random termination asynchronous game horizons and stochastic analysis The techniques presented here will enable readers to solve numerous practical dynamic interactive problems with durable strategies This book not only expands the scope of applied dynamic game theory but also provides a solid foundation for further theoretical and technical advancements As such it will appeal to scholars and students of quantitative economics game theory operations research and computational mathematics Not too

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**Game Theory and Machine Learning for Cyber Security** Charles A. Kamhoua, Christopher D. Kiekintveld, Fei Fang, Quanyan Zhu, 2021-09-15 GAME THEORY AND MACHINE LEARNING FOR CYBER SECURITY Move beyond the foundations of machine learning and game theory in cyber security to the latest research in this cutting edge field In Game Theory and Machine Learning for Cyber Security a team of expert security researchers delivers a collection of central research contributions from both machine learning and game theory applicable to cybersecurity The distinguished editors have included resources that address open research questions in game theory and machine learning applied to cyber security systems and examine the strengths and limitations of current game theoretic models for cyber security Readers will explore the vulnerabilities of traditional machine learning algorithms and how they can be mitigated in an adversarial machine learning approach The book offers a comprehensive suite of solutions to a broad range of technical issues in applying game theory and machine learning to solve cyber security challenges Beginning with an introduction to foundational concepts in game theory machine learning cyber security and cyber deception the editors provide readers with resources that discuss the latest in hypergames behavioral game theory adversarial machine learning generative adversarial networks and multi agent reinforcement learning Readers will also enjoy A thorough introduction to game theory for cyber deception including scalable algorithms for identifying stealthy attackers in a game theoretic framework honeypot allocation over attack graphs and behavioral games for cyber deception An exploration of game theory for cyber security including actionable game theoretic adversarial intervention detection against advanced persistent threats Practical discussions of adversarial machine learning for cyber security including adversarial machine learning in 5G security and machine learning driven fault injection in cyber physical systems In depth examinations of generative models for cyber security Perfect for researchers students and experts in the fields of computer science and engineering Game Theory and Machine Learning for Cyber Security is also an indispensable resource for industry professionals military personnel researchers faculty and students with an interest in cyber security

Coincidence of and Linearity Between Game Theoretic Solutions Theo Driessen, Yukihiro Funaki, 1988 **Solution Manual for A Course in Game Theory** by Martin J. Osborne and Ariel Rubinstein Martin J. Osborne, Ariel Rubinstein, 1994-12-01 Unique

Solutions for Strategic Games Werner Güth, Brigitte Kalkofen, 2012-12-06 This book develops a general solution concept for strategic games which resolves strategic uncertainty completely The concept is described by a mathematically formulated solution procedure and illustrated by applying it to many interesting examples A long nontechnical introduction tries to survey and to discuss the more technical parts of the book The book and especially the introduction provide firm and consistent guidance for scholars of game theory There are many open problems which could inspire further research efforts

**Game Theory in Wireless and Communication Networks** Zhu Han, 2012 This unified 2001 treatment of game theory focuses on finding state of the art solutions to issues surrounding the next generation of wireless and communications networks The key results and tools of game theory are covered as are various real world technologies and a wide range of techniques for modeling design and analysis

**Game Theory in Management Accounting** David Mueller, Ralf Trost, 2017-09-21 This book demonstrates what kind of problems originating in a management accounting setting may be solved with game theoretic models Game theory has experienced growing interest and numerous applications in the field of management accounting The main focus traditionally has been on the field of non cooperative behaviour but the area of cooperative game theory has developed rapidly and has received increasing attention Intensive research in combination with the changing culture of publishing has produced a nearly unmanageable number of publications in the areas concerned Therefore one main purpose of this volume is providing an intensive analysis of the intersection of these areas In addition the book strengthens the relationship between the theory and the practical applications and it illustrates the two sided relationship between game theory and management accounting new game theoretic models offer new fields of applications and these applications raise new questions for the theory

Game Theory, Solutions and Applications William Y. McCaslin, 1967

Handbook of Game Theory with Economic Applications: Game of chess Robert J. Aumann, Sergiu Hart, 1992

*Handbook of Game Theory with Economic Applications* R.J. Aumann, S. Hart, 1992-11-19 This is the first volume of the Handbook of Game Theory with Economic Applications to be followed by two additional volumes Game Theory has developed greatly in the last decade and today it is an essential tool in much of economic theory The three volumes will cover the fundamental theoretical aspects a wide range of applications to economics several chapters on applications to political science and individual chapters on relations with other disciplines The topics covered in the present volume include chess playing computers an introduction to the non cooperative theory repeated games bargaining theory auctions location entry deterrence patents the cooperative theory and its applications and the relation between Game Theory and ethics For more information on the Handbooks in Economics series please see our home page on <http://www.elsevier.nl/locate/hes>

**Handbook of Game Theory with Economic Applications: Zero-sum two-person games** Robert J. Aumann, Sergiu Hart, 1992

**Solution Concepts for N-person Cooperative Games** Zhi Zhang, 1985

**Game Theory** Steven N.

Durlauf, Lawrence E. Blume, 2009-11-12 Following the recent publication of the award winning and much acclaimed The New

Palgrave Dictionary of Economics second edition which brings together Nobel Prize winners and the brightest young scholars to survey the discipline we are pleased to announce The New Palgrave Economics Collection Due to demand from the economics community these books address key subject areas within the field Each title is comprised of specially selected articles from the Dictionary and covers a fundamental theme within the discipline All of the articles have been specifically chosen by the editors of the Dictionary Steven N Durlauf and Lawrence E Blume and are written by leading practitioners in the field The Collections provide the reader with easy to access information on complex and important subject areas and allow individual scholars and students to have their own personal reference copy

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