

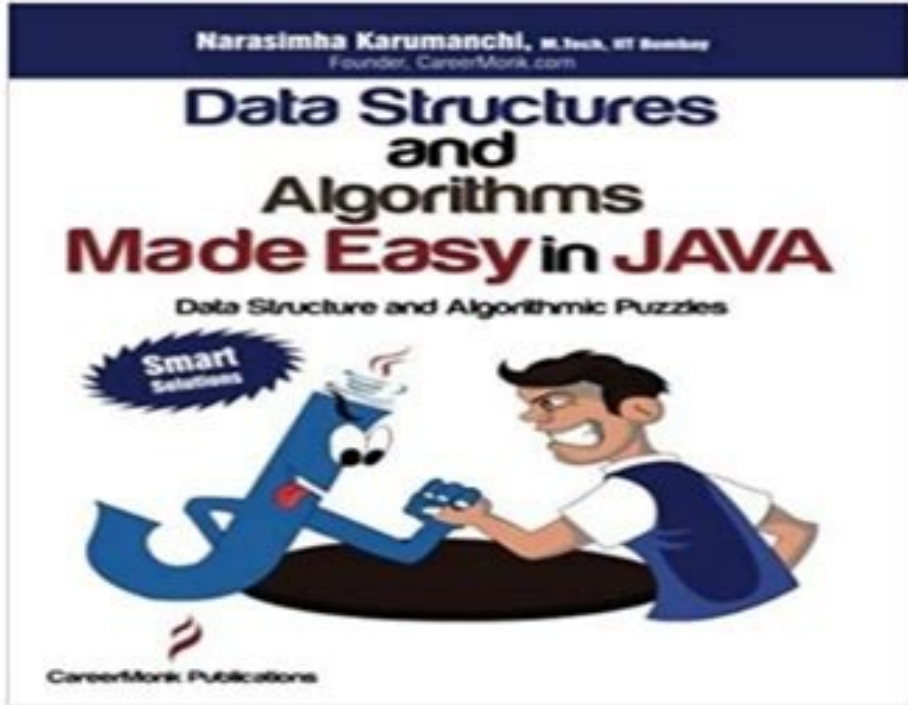
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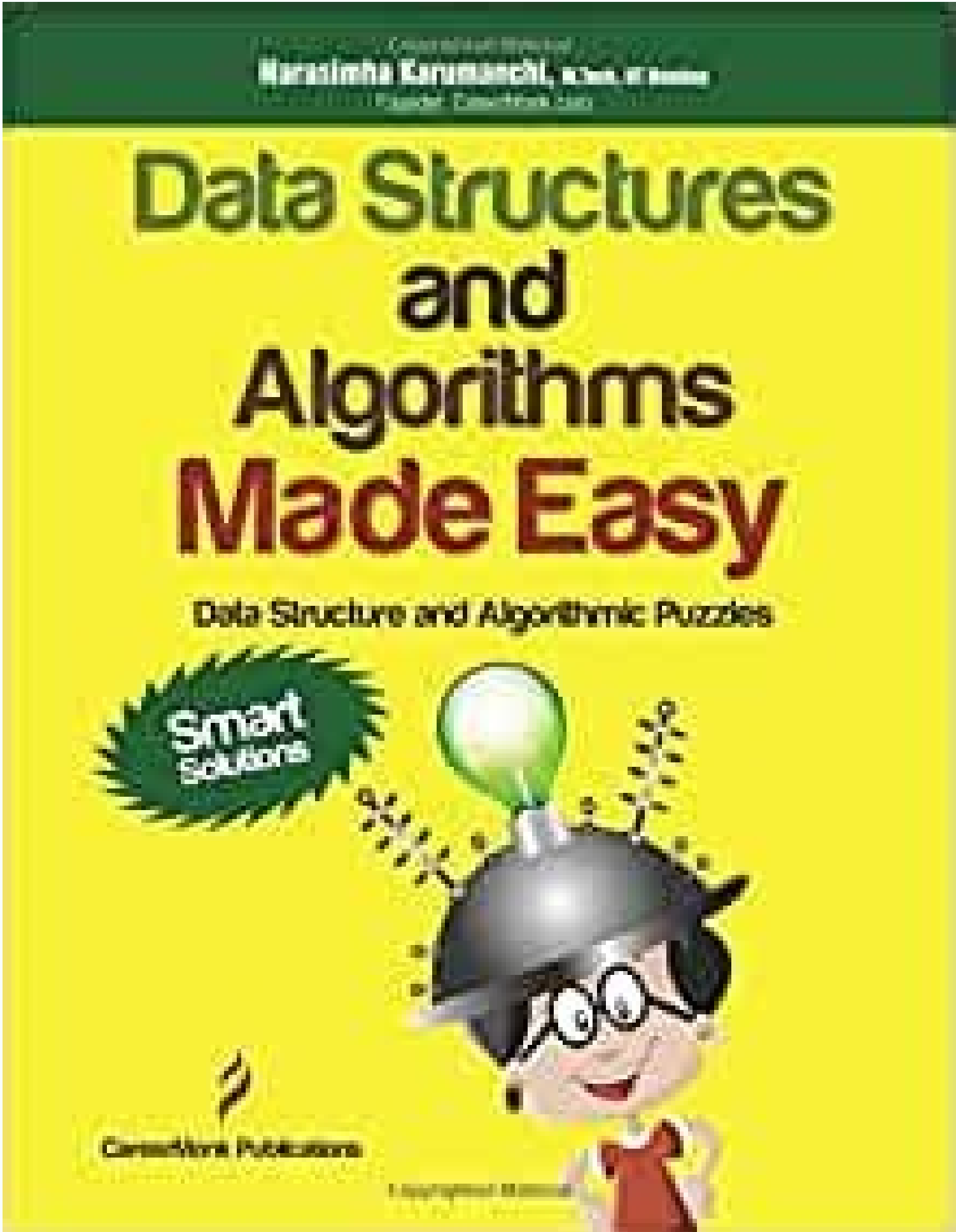
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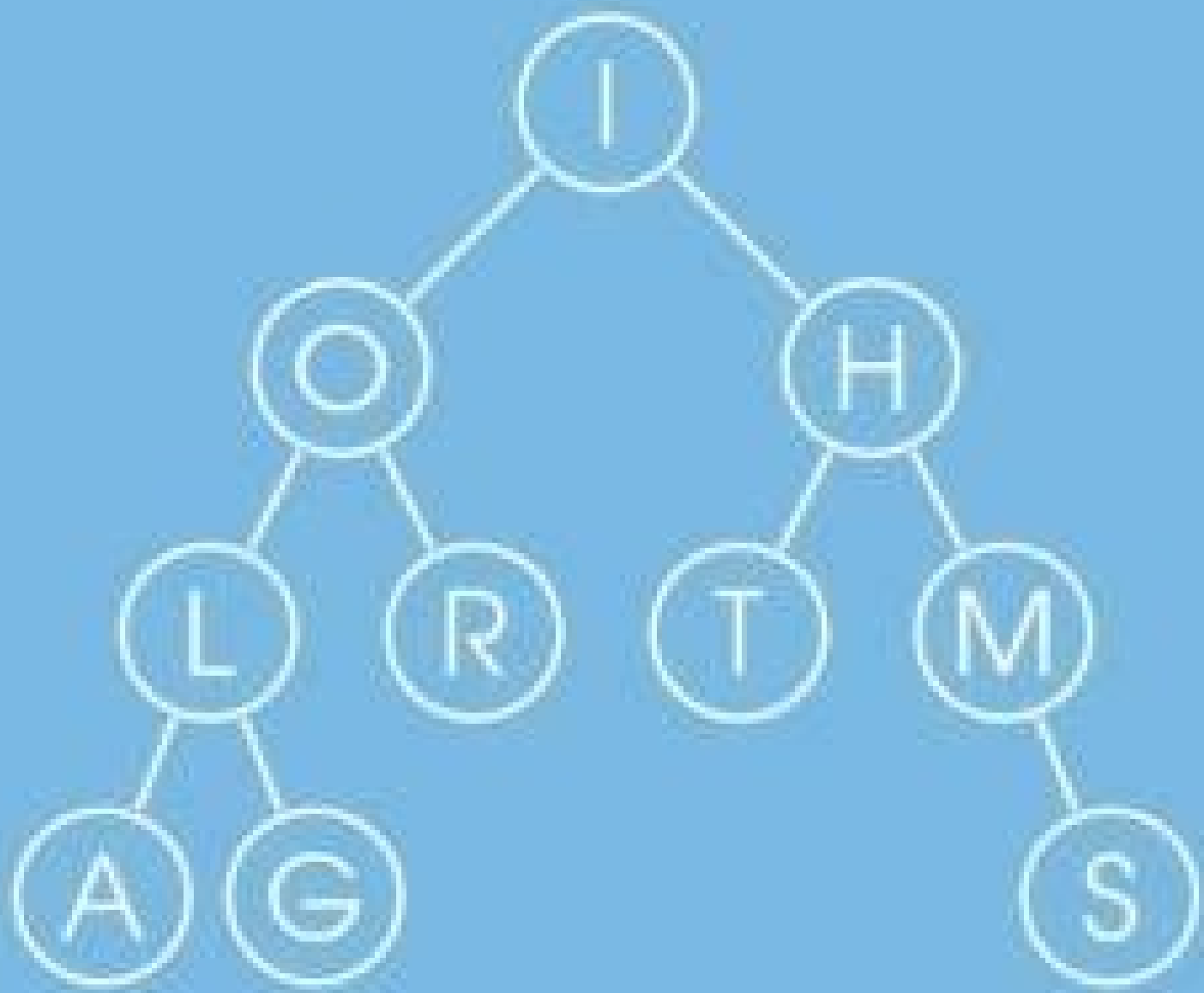


Water and Pitchers (ans)

Where can we go from here:  
(x,y) > 0  
a. (0,y) / (x,0)    ♦ Empty first/second  
b. (0,y) / (x,0)    ♦ Fill first/second  
c. (x,y+1)    ♦ Second to first, x+y < 5  
d. (x,y-1)    ♦ Second to first, x+y > 5  
e. (x,y+2)    ♦ First to second, x+y < 8  
f. (x,y-2)    ♦ First to second, x+y > 8



LEARNING ALGORITHMS  
THROUGH  
PROGRAMMING AND PUZZLE SOLVING



by Alexander Kulkov and Pavel Pevzner

Algorithmic puzzles book.

Quello che importa è che ci sono i problemi, ci sono Molti problemi matematici possono anche essere considerati "problemi informatici". There are several problems that are based on the chessboard and the movement of chess pieces (Sometimes new pieces are invented for the purpose of the puzzle like The Prince's Tour ). 1. The book includes more than twenty puzzles and more than seventy programming exercises that vary in difficulty. In questo libro ci sono per l'appunto centocinquanta problemi di questo tipo. Mathematical Induction is an important technique for the purpose of this book. Well Known Puzzles There are many well known and famous problems here such as Monkey and the Coconuts, Josephus Problem and Godel, Escher, Bach's MU Puzzle . | 7 in x 9 in 89 b&w illus. Each lesson starts with the description of a puzzle. I think one of the best ways to learn concepts is to do problems with them and this was quite ideal. There is Bachet's Problem and many problems on weighing and detecting the counterfeit coin. This book is an anthology of Mathematical and Algorithmic puzzles. Python syntax and semantics required to understand the code are explained as needed for each puzzle. Readers need only the rudimentary grasp of programming concepts that can be obtained from introductory or AP computer science classes in high school. The code for selected puzzle solutions is downloadable from the book's website; the code for all puzzle solutions is available to instructors. Everybody must write down the number they think is on their own hat on a piece of paper. November 2017 Srin Devadas is Webster Professor of Electrical Engineering and Computer Science at MIT and a MacVicar Fellow. What is the minimum number of stacks that will be created 73. How do they win ? One Coin for Freedom - A jailer offers two imprisoned programmers, A, B freedom if they win a game. Penny Distribution Machine - There is a stack of pennies. Well Known Puzzles There are many well known and famous problems here I got to know about this book because it was mentioned in his book on Algorithms as an accompaniment. Not going to lie, the problems are very challenging (even the easy ones). This represents a pedagogical philosophy that decouples understanding the functionality of the code from understanding programming language syntax and semantics. Nobody is allowed to see the number written by anybody else and no form of communication is allowed between participants. This is essentially a collection of puzzles. Structure There are 3 chapters in this book - Easy, Medium and Hard. A must flip over exactly one coin from heads to tails. How many moves will it take us ? ...more Apr 13, 2020 Adam Z rated it it was amazing A wonderful collection of easily-stated and fun to solve problems of all difficulty levels. The problems are algorithmic in their nature, involving steps and processes rather than equations and quantities. In definitiva, risolvere il problema significa trovare un algoritmo tale che anche lo stupido computer possa risolverlo. In this book, we are asked how we can tile a board of size  $(2^n \times 2^n)$  with 1 missing square with L-shaped trominoes of 3 different colours such that no 2 of the same colour are touching. Without them, many problems in the Hard section are on a difficulty level on par with the International Mathematical Olympiads (IMO). It has a very beautiful proof by Contradiction. Tutti i problemi hanno sempre una spiegazione che rimanda alle tecniche usate nella loro risoluzione, oltre che - per quanto possa essere possibile in un campo come quello dei giochi matematici in cui spesso ci si passavano le cose in maniera carbonara - l'indicazione di dove il problema è stato presentato per la prima volta, magari in forma leggermente diversa. Un'opera altamente consigliabile per gli appassionati di matematica e di informatica. insomma! ...more Mar 03, 2018 Linah rated it really liked it This is essentially a collection of puzzles. However, we are asked to provide a linear time constructive solution rather than the traditional exponential backtracking one. The solution to the puzzle becomes the specification of the code to be written. They may plan their strategy beforehand but cannot communicate during the game. Gli autori in un certo senso barano, perché a volte ci sono anche dimostrazioni di impossibilità in alcuni casi e quelle non sono certo algoritmiche; ma non importa. Some of the problems are variations of well known problem. They range from scheduling selfie time with celebrities to solving Sudoku problems in seconds to verifying the six degrees of separation hypothesis. Some of the Hard Puzzles are genuinely hard, but many of them are approachable. Karim Fanous rated it really liked it Nov 17, 2018 Garybau rated it really liked it Feb 12, 2016 Brandon rated it liked it May 20, 2014 Kaiser rated it it was amazing Mar 16, 2012 Raeden Zen rated it it was amazing Nov 22, 2015 Ramy Nassar rated it really liked it Mar 04, 2017 Leszek rated it it was amazing Nov 28, 2013 Dan Lastoria rated it really liked it Jul 04, 2016 Austin rated it liked it Jul 11, 2014 Fedor rated it it was amazing Jul 31, 2019 Shiv Godhia rated it it was amazing Sep 03, 2018 Necail rated it really liked it Jul 18, 2012 Lee rated it it was amazing May 24, 2016 A Bushra rated it it was amazing Oct 22, 2016 Pankaj rated it really liked it Oct 05, 2013 B is then bought into the room and made to guess the selected cell. Each hat has a number written on it in  $\{0, 1, \dots, n-1\}$ . This has a beautiful proof with Mathematical Induction. There is a problem (Point Colouring) that was asked in the 1987 International Mathematical Olympiad . Quello che importa è che ci sono i problemi, ci sono le soluzioni, ci sono le spiegazioni delle tecniche adottate per risolverli (mi ero dimenticato: la prima sezione del libro contiene un tutorial con alcuni problemi risolti e l'elenco di tecniche classiche per risolvere questi problemi, dal divide-et-impera al togli-uno). Il tutto con un taglio più informatico che strettamente matematico, il che forse potrebbe risultare più interessante per alcuni. It has a short tutorial section and the rest are problems to solve. Hats with Numbers There are  $n$  people who are wearing a hat. ...more Molti problemi matematici possono anche essere considerati "problemi informatici". Does the final distribution of pennies depend on the order we process the stacks ? There are a few puzzles that are based on games proposed by John Conway like Game of Life, Toads and Frogs, Counter Exchange, One Dimensional Solitaire and Bulgarian Solitaire (I found this the hardest puzzle in the whole book.) There are variations of the Tower of Hanoi problem like Reve's Puzzle The N-Queens problem is very famous. The jailer takes only A into the room and shows A the cell B will be asked to guess. Algorithmic puzzles that have a defined procedure for solving problems. However, they present a richness in terms of the mathematical mindset required to solve them. There are many problems that are 'Constructive' in nature where we have to construct an answer or a counterexample rather than just provide an existence proof. Learning programming with one of "the coolest applications around": algorithmic puzzles ranging from scheduling selfie time to verifying the six degrees of separation hypothesis. This book builds a bridge between the recreational world of algorithmic puzzles (puzzles that can be solved by algorithms) and the pragmatic world of computer programming, teaching readers to program while solving puzzles. Here are some of the puzzles I really enjoyed. Puzzles are real-world applications that are attention grabbing, intriguing, and easy to describe. Clues and pointers are given in a separate chapters. Many of the puzzles are well known and have appeared in publications and on websites in many variations. Without them, many pro A wonderful collection of easily-stated and fun to solve problems of all difficulty levels. The problems are algorithmic in their nature, involving steps and processes rather than equations and quantities. Few introductory students want to program for programming's sake. Many interesting puzzles with good explanations in places (the tutorials at the start are the strongest point), but unfortunately spoiled by the inclusion of numerous puzzles where the solutions reduce to tedious symbol-pushing with little or no insight. 2. Topics Covered There are many elegant problems about Invariants and Logical Deduction. Showing 1-30 Start your review of Algorithmic Puzzles I got to know about this book because it was mentioned in his book on Algorithms as an accompaniment. I loved that it wasn't written like a textbook yet for an amateur. We will stop when no stack has more than 1 penny. ...more Jan 16, 2019 Philip rated it liked it This review has been hidden because it contains spoilers. To view it, click here. Everybody can see the number written on everybody else's hat but their own. In one move, we remove 2 pennies from any one stack and add 1 penny to the stack on it's right. The solutions are always elementary, in that they do not require the reader to be familiar with university level mathematics. There are several solutions which are difficult to understand, but easy to guess and prove with Mathematical Induction. The numbers written on the hats need not be distinct and may repeat on multiple hats. Downloadable instructor resources available for this title: code for all puzzle solutions \$25.00 X ISBN: 9780262534307 272 pp. For example, there is a famous problem which asks whether we can tile a  $(2^n \times 2^n)$  board with exactly 1 square missing with L-shaped trominoes. After a failed attempt or two at solving the puzzle, the reader arrives at an Aha! moment—a search strategy, data structure, or mathematical fact—and the solution presents itself. Readers will thus know what the code is supposed to do before seeing the code itself. The jailer sets up a 8 x 8 board with one coin on each cell with some heads and tails. What strategy can be adopted so that at least one person gets the number on their hat correct ?

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