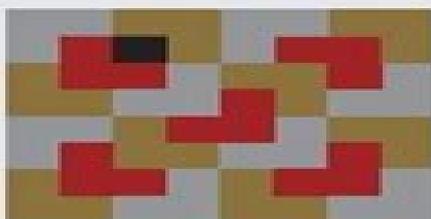


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Algorithmic Puzzles Anyay Levitin, Maria Levitin, 2011-10-12 Algorithmic puzzles are puzzles involving well defined procedures for solving problems This book will provide an enjoyable and accessible introduction to algorithmic puzzles that will develop the reader's algorithmic thinking

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[Programming for the Puzzled](#) Srinivas Devadas, 2017-11-16 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 Few introductory students want to program for programming's sake Puzzles are real world applications that are attention grabbing intriguing and easy to describe Each lesson starts with the description of a puzzle 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 The solution to the puzzle becomes the specification of the code to be written Readers will thus know what the code is supposed to do before seeing the code itself This represents a pedagogical philosophy that decouples understanding the functionality of the code from understanding programming language syntax and semantics 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 book includes more than twenty puzzles and more than seventy programming exercises that vary in difficulty Many of the puzzles are well known and have appeared in publications and on websites in many variations They range from scheduling selfie time with celebrities to solving Sudoku problems in seconds to verifying the six degrees of separation hypothesis The code for selected puzzle solutions is downloadable from the book's website the code for all puzzle solutions is available to instructors

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Conference Proceedings ,1999 *Congressus Numerantium* ,1994 *Algorithms, Data Structures, and Problem Solving with C++* Mark Allen Weiss,1996 Providing a complete explanation of problem solving and algorithms using C the author's theoretical perspective emphasizes software engineering and object oriented programming

and encourages readers to think abstractly Numerous code examples and case studies are used to support the algorithms presented

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Introduction to the Design and Analysis of Algorithms Seymour E. Goodman, S. T. Hedetniemi, 1977

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