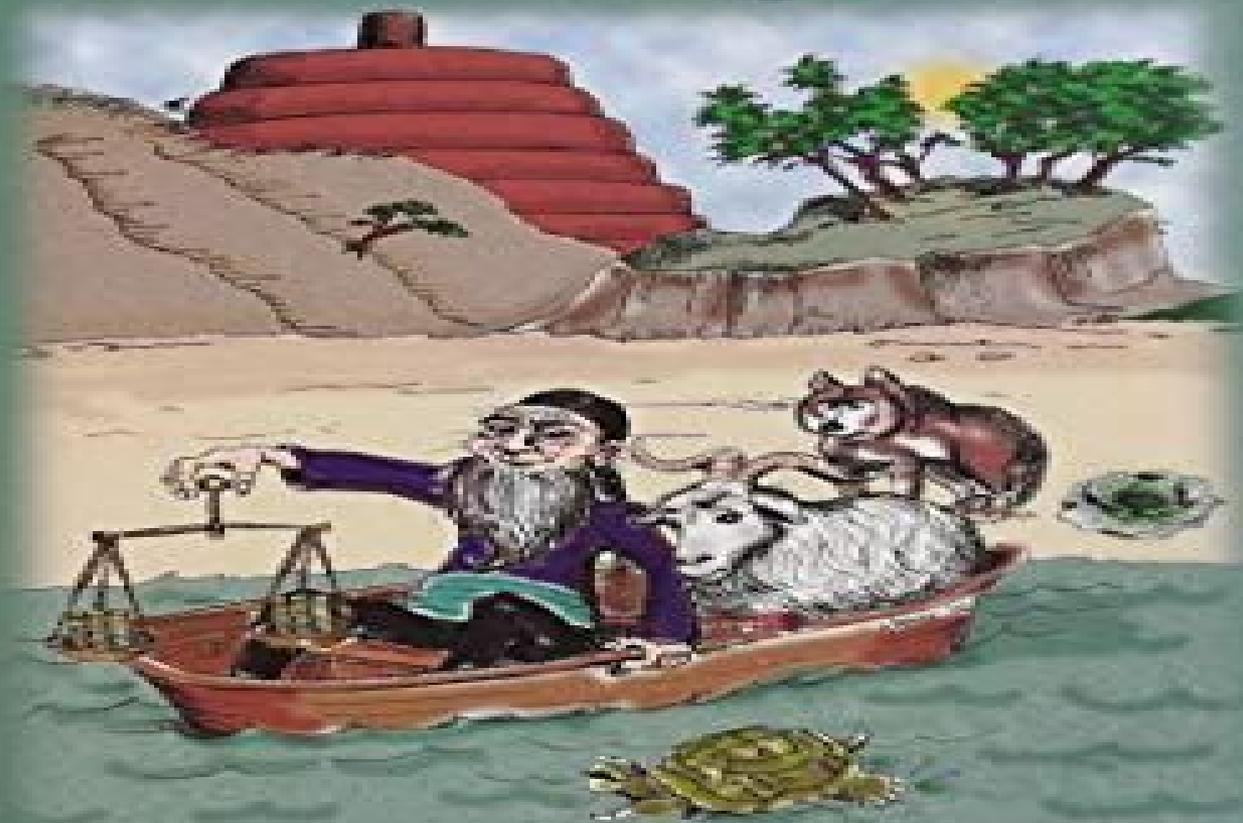


Introduction to
**The Design & Analysis
of Algorithms**



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Introduction to the Design and Analysis of Algorithms Anany Levitin, 2011-12-01 Based on a new classification of algorithm design techniques and a clear delineation of analysis methods Introduction to the Design and Analysis of Algorithms presents the subject in a coherent and innovative manner

Introduction To Design And Analysis Of Algorithms, 2/E Anany Levitin, 2008-09 **Can You Solve My Problems?** Alex Bellos, 2017-03-21 Puzzle lovers rejoice Bestselling math writer Alex Bellos has a challenge for you 125 of the world's best brainteasers from the last two millennia Armed with logic alone you'll detect counterfeit coins navigate river crossings and untangle family trees Then with just a dash of high school math you'll tie a rope around the Earth match wits with a cryptic wizard and use four 4s to create every number from 1 to 50 It can be done The ultimate casebook for daring puzzlers Can You Solve My Problems also tells the story of the puzzle from ancient China to Victorian England to modern day Japan Grab your pencil and get puzzling

Algorithmic Puzzles Anany Levitin, Maria Levitin, 2011-10-14 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 The first part of this book is a tutorial on algorithm design strategies and analysis techniques Algorithm design strategies exhaustive search backtracking divide and conquer and a few others are general approaches to designing step by step instructions for solving problems Analysis techniques are methods for investigating such procedures to answer questions about the ultimate result of the procedure or how many steps are executed before the procedure stops The discussion is an elementary level with puzzle examples and requires neither programming nor mathematics beyond a secondary school level Thus the tutorial provides a gentle and entertaining introduction to main ideas in high level algorithmic problem solving The second and main part of the book contains 150 puzzles from centuries old classics to newcomers often asked during job interviews at computing engineering and financial companies The puzzles are divided into three groups by their difficulty levels The first fifty puzzles in the Easier Puzzles section require only middle school mathematics The sixty puzzle of average difficulty and forty harder puzzles require just high school mathematics plus a few topics such as binary numbers and simple recurrences which are reviewed in the tutorial All the puzzles are provided with hints detailed solutions and brief comments The comments deal with the puzzle origins and design or analysis techniques used in the solution The book should be of interest to puzzle lovers students and teachers of algorithm courses and persons expecting to be given puzzles during job interviews

Algorithmic Puzzles Anany Levitin, Maria Levitin, 2011-09-21 While many think of algorithms as specific to computer science at its core algorithmic thinking is defined by the use of analytical logic to solve problems This logic extends far beyond the realm of computer science and into the wide and entertaining world of puzzles In Algorithmic Puzzles Anany and Maria Levitin use many classic brainteasers as well as newer examples from job interviews with major corporations to show readers how to apply analytical

thinking to solve puzzles requiring well defined procedures The book s unique collection of puzzles is supplemented with carefully developed tutorials on algorithm design strategies and analysis techniques intended to walk the reader step by step through the various approaches to algorithmic problem solving Mastery of these strategies exhaustive search backtracking and divide and conquer among others will aid the reader in solving not only the puzzles contained in this book but also others encountered in interviews puzzle collections and throughout everyday life Each of the 150 puzzles contains hints and solutions along with commentary on the puzzle s origins and solution methods The only book of its kind Algorithmic Puzzles houses puzzles for all skill levels Readers with only middle school mathematics will develop their algorithmic problem solving skills through puzzles at the elementary level while seasoned puzzle solvers will enjoy the challenge of thinking through more difficult puzzles

Mathematical and Algorithmic Puzzles Pramod Ganapathi,2024-05-29 This book presents serious mathematical and algorithmic puzzles that are mostly counterintuitive The presented puzzles are simultaneously entertaining challenging intriguing and haunting This book introduces its readers to counterintuitive mathematical ideas and revolutionary algorithmic insights from a wide variety of topics The presented solutions that are discovered by many mathematicians and computer scientists are highly counterintuitive and show supreme mathematical beauty These counterintuitive solutions are intriguing to the degree that they shatter our preconceived notions shake our long held belief systems debunk our fundamental intuitions and finally rob us of sleep and haunt us for a lifetime Multiple ways of attacking the same puzzle are presented which teach the application of elegant problem solving strategies

The Mathematics of Various Entertaining Subjects Jennifer Beineke,Jason Rosenhouse,2019-04-09 The history of mathematics is filled with major breakthroughs resulting from solutions to recreational problems Problems of interest to gamblers led to the modern theory of probability for example and surreal numbers were inspired by the game of Go Yet even with such groundbreaking findings and a wealth of popular level books exploring puzzles and brainteasers research in recreational mathematics has often been neglected The Mathematics of Various Entertaining Subjects brings together authors from a variety of specialties to present fascinating problems and solutions in recreational mathematics Contributors to the book show how sophisticated mathematics can help construct mazes that look like famous people how the analysis of crossword puzzles has much in common with understanding epidemics and how the theory of electrical circuits is useful in understanding the classic Towers of Hanoi puzzle The card game SET is related to the theory of error correcting codes and simple tic tac toe takes on a new life when played on an affine plane Inspirations for the book s wealth of problems include board games card tricks fake coins flexagons pencil puzzles poker and so much more Looking at a plethora of eclectic games and puzzles The Mathematics of Various Entertaining Subjects is sure to entertain challenge and inspire academic mathematicians and avid math enthusiasts alike

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