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Solution. 6.2. Suppose we flip coins each of known bias, such that is the probability of the i th coin being a head. Present an efficient algorithm to determine the exact probability of getting exactly k heads given p_1, \dots, p_n . 6.3. An inversion of a permutation is a pair of elements that are out of order.

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6-6. Suppose we are given the minimum spanning tree T of a given graph G (with n vertices and m edges) and a new edge $e = (u, v)$ of weight w that we will add to G . Give an efficient algorithm to find the minimum spanning tree of the graph $G + e$. Your algorithm should run in $O(n)$ time to receive full credit. Solution

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if $p > r$ and $v \neq A[p]$ then return nil end if $j = A[b(r-p)+2c]$ if $v = A[j]$ then return j else if $v < A[j]$ then return BINARY-SEARCH($A;v;p;j$) else return BINARY-SEARCH($A;v;j;r$) end if end if 2:3-7 Give a $(n \lg n)$ time algorithm for determining if there exist two elements in an set S whose sum is exactly some value x . Algorithm 4 CHECKSUMS($A;x$) Input: An array A and a value x .

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This text offers students on the dynamic and diverse field of computer science. [In the text, the authors] provide [an] overview of the many

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aspects of the discipline from a generic view point. Separate program language chapters are available as bundle items for those instructors who would like to explore a particular programming language with their students. The many layers of computing are thoroughly explained beginning with the information layer, working through the hardware, programming, operating systems, application, and communication layers, and ending with a discussion on the limitations of computing. [It is] for introductory computing and computer science courses. [It is also for] computer science majors with a solid foundation for further study, and offers non majors a comprehensive and complete introduction to computing.

Problem solving is an essential part of every scientific discipline. It has two components: (1) problem identification and formulation, and (2)

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solution of the formulated problem. One can solve a problem on its own using ad hoc techniques or follow those techniques that have produced efficient solutions to similar problems. This requires the understanding of various algorithm design techniques, how and when to use them to formulate solutions and the context appropriate for each of them. This book advocates the study of algorithm design techniques by presenting most of the useful algorithm design techniques and illustrating them through numerous examples.

Contents: Basic Concepts and Introduction to Algorithms: Basic Concepts in Algorithmic Analysis Mathematical Preliminaries Data Structures Heaps and the Disjoint Sets Data Structures Techniques Based on Recursion: Induction Divide and Conquer Dynamic Programming First-Cut Techniques: The Greedy Approach Graph Traversal Complexity of Problems: NP-Complete

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Problems Introduction to Computational Complexity Lower Bounds Coping with Hardness: Backtracking Randomized Algorithms Approximation Algorithms Iterative Improvement for Domain-Specific Problems: Network Flow Matching Techniques in Computational Geometry: Geometric Sweeping Voronoi Diagrams
Readership: Senior undergraduates, graduate students and professionals in software development. Keywords:

This book can be used as an experiment and reference book for algorithm design courses, as well as a training manual for programming contests. It contains 247 problems selected from ACM-ICPC programming contests and other programming contests. There's detailed analysis for each problem. All problems, and test datum for most of problems will be provided online. The content will follow

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usual algorithms syllabus, and problem-solving strategies will be introduced in analyses and solutions to problem cases. For students in computer-related majors, contestants and programmers, this book can polish their programming and problem-solving skills with familiarity of algorithms and mathematics.

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proving complexity results. It gives a practical treatment of algorithmic complexity and guides readers in solving algorithmic problems. Divided into three parts, the book offers a comprehensive set of problems with solutions as well as in-depth case studies that demonstrate how to assess the complexity of a new problem. Part I helps readers understand the main design principles and design efficient algorithms. Part II covers polynomial reductions from NP-complete problems and approaches that go beyond NP-completeness. Part III supplies readers with tools and techniques to evaluate problem complexity, including how to determine which instances are polynomial and which are NP-hard. Drawing on the authors' classroom-tested material, this text takes readers step by step through the concepts and methods for analyzing algorithmic complexity. Through many problems and detailed examples, readers can

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investigate polynomial-time algorithms and NP-completeness and beyond.

Python Algorithms, Second Edition explains the Python approach to algorithm analysis and design. Written by Magnus Lie Hetland, author of Beginning Python, this book is sharply focused on classical algorithms, but it also gives a solid understanding of fundamental algorithmic problem-solving techniques. The book deals with some of the most important and challenging areas of programming and computer science in a highly readable manner. It covers both algorithmic theory and programming practice, demonstrating how theory is reflected in real Python programs. Well-known algorithms and data structures that are built into the Python language are explained, and the user is shown how to implement and evaluate

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others.

The first edition won the award for Best 1990 Professional and Scholarly Book in Computer Science and Data Processing by the Association of American Publishers. There are books on algorithms that are rigorous but incomplete and others that cover masses of material but lack rigor. Introduction to Algorithms combines rigor and comprehensiveness. The book covers a broad range of algorithms in depth, yet makes their design and analysis accessible to all levels of readers. Each chapter is relatively self-contained and can be used as a unit of study. The algorithms are described in English and in a pseudocode designed to be readable by anyone who has done a little programming. The explanations have been kept elementary without sacrificing depth of coverage or mathematical rigor. The first edition

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became the standard reference for professionals and a widely used text in universities worldwide. The second edition features new chapters on the role of algorithms, probabilistic analysis and randomized algorithms, and linear programming, as well as extensive revisions to virtually every section of the book. In a subtle but important change, loop invariants are introduced early and used throughout the text to prove algorithm correctness. Without changing the mathematical and analytic focus, the authors have moved much of the mathematical foundations material from Part I to an appendix and have included additional motivational material at the beginning.

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