Algorithmic Problems And Solutions

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The Algorithm Design Manual
Steven S. Skiena 2008-04-05 This newly expanded and updated second edition of the bestselling classic continues to take the "myth-busting" out of algorithm design. It provides an introduction to computer algorithm design by presenting the basic techniques, methods, and tools for designing and analyzing algorithms. The second edition offers a carefully crafted mixture of practical and theoretical material with new chapters on string processing, computational geometry, and parallel algorithms, as well as new sections throughout the book. The book's coverage is broad, covering both the algorithmic principles and the underlying motivations for these principles. The algorithms are described in English and also in a high-level pseudocode that can be implemented in any standard programming language.

Data Structures and Algorithm Analysis in C++
Mark A. Weiss 2008-04-01 This book is designed to present the basic principles and techniques of data structure design in a manner that highlights their relevance to solving a wide range of computational problems. The book is organized around several key themes that are not usually covered in the standard curriculum: The first part of the book presents a general introduction to the design and analysis of algorithms. The second part presents a more detailed treatment of several specific algorithms and data structures. The book concludes with a discussion of some broader issues and trends in algorithm design.

Design and Analysis of Algorithm Problems
Sofia DeJesus 2020-11-27 Applied Computational Thinking with Python provides a hands-on approach to implementation and extends the primary focus of the first edition into the classroom setting. The book provides a comprehensive introduction to computational thinking and problem-solving using Python. It begins with a review of the fundamentals of programming and then proceeds to cover a wide range of topics, such as algorithm design, data structures, and machine learning. With a focus on practical applications, this book is ideal for students and professionals who want to develop their skills in Python programming and computational thinking.

Cracking the Coding Interview: 150 Questions and Solutions
Gayle Laakmann McDowell 2011-11-01<br>Cracking the Coding Interview has given you the interview preparation you need to get the top tech jobs. This new edition has been completely updated for the current hiring market and includes: An introduction to software engineering and the role of software developers, with a look at patterns of collaboration in the industry plus sections on Agile development, pair programming, and software design principles. The book is organized around five key themes: Programming problems, algorithm problems, data structure problems, system design problems, and behavioral problems. Each chapter includes a set of questions and solutions for ideal candidates, along with a set of questions and solutions for those with a bit more experience. The book concludes with a section on how to use Cracking the Coding Interview to prepare for the job you want, plus advice on how to handle the entire job search process. The new edition also includes new sections on complex algorithms and data structures, as well as new chapters on computer science fundamentals and software estimation. The book is designed to help you prepare for a variety of job interviews, from entry-level positions to senior roles, and to help you succeed in the technical interview process.

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Dynamic Programming: Classic Problems & Solutions

Optimizations: Classic Problems & Solutions

Practical Handbook of Genetic Algorithms
Dave Whitfield 2021-06-16 Algorithms and data structures are much more than abstract concepts. Mastering them enables you to write code that's much more efficient and easier to maintain. This practical guide begins by explaining the basics of algorithms and data structures, then explores real-world applications. Readers even learn how to program an algorithm using Python! Become well-versed in the major areas comprising algorithms Examine the different algorithmic methods, and learn how to use them to solve problems. This book is perfect for developers who want to optimize their code and improve their application's performance. It covers both the theoretical and practical aspects of algorithms and data structures, enabling you to write more efficient and effective code. With a focus on Python programming, this book provides hands-on examples and exercises to help readers understand and apply the concepts. Whether you're a beginner or an experienced programmer, this book is an invaluable resource for anyone looking to improve their programming skills and code performance.
Parallel algorithms for irregular problems: State of the art at the Annual Cornell Conference 2001-07-15 Efficient parallel algorithms have been found to many problems. Some of these methods are obtained automatically from sequential programs, using compilers. However, there is a large class of problems—irregular problems—that lack efficient solutions.

In the first chapter of this book, readers will find an overview of some of the main technologies for parallel computing, including shared memory, distributed memory, and multithreaded systems. The book provides a comprehensive introduction to the design and analysis of parallel algorithms, covering the most important parallel architectures. It is a valuable resource for students, researchers, and practitioners who wish to understand and develop efficient algorithms for parallel computing systems.

The book begins by introducing the basic concepts and techniques of parallel programming. It then covers more advanced topics such as load balancing, communication, and synchronization. The book concludes with a discussion of current trends and challenges in parallel computing, including cloud computing and distributed systems.

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