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an introduction to algorithms for readers with no background in advanced mathematics or computer science emphasizing examples and real world problems algorithms are what we do in order not to have to do something algorithms consist of instructions to carry out tasks usually dull repetitive ones starting from simple building blocks computer algorithms enable machines to recognize and produce speech translate texts categorize and summarize documents describe images and predict the weather a task that would take hours can be completed in virtually no time by using a few lines of code in a modern scripting program this book offers an introduction to algorithms through the real world problems they solve the algorithms are presented in pseudocode and can readily be implemented in a computer language the book presents algorithms simply and accessibly

without overwhelming readers or insulting their intelligence readers should be comfortable with mathematical fundamentals and have a basic understanding of how computers work all other necessary concepts are explained in the text after presenting background in pseudocode conventions basic terminology and data structures chapters cover compression cryptography graphs searching and sorting hashing classification strings and chance each chapter describes real problems and then presents algorithms to solve them examples illustrate the wide range of applications including shortest paths as a solution to paragraph line breaks strongest paths in elections systems hashes for song recognition voting power monte carlo methods and entropy for machine learning real world algorithms can be used by students in disciplines from economics to applied sciences computer science majors can read it before using a more technical text

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innovation at Champlain College in Burlington, Vermont. He is the author of *Dart for Absolute Beginners* (Apress, 2014), *Classic Computer Science Problems in Swift* (Manning, 2018), and *Classic Computer Science Problems in Java* (Manning, 2020). Table of Contents: 1. Small Problems 2. Search Problems 3. Constraint Satisfaction Problems 4. Graph Problems 5. Genetic Algorithms 6. K-Means Clustering 7. Fairly Simple Neural Networks 8. Adversarial Search 9. Miscellaneous Problems

Mastering Discrete Mathematics is a comprehensive and accessible resource designed to provide readers with a thorough understanding of the fundamental concepts, techniques, and applications of discrete mathematics. Written for students, educators, researchers, and practitioners, we offer a detailed overview of discrete mathematics, a field that deals with countable, distinct objects and structures. We cover a wide range of topics, including sets, logic, proof techniques, combinatorics, graph theory, recurrence relations, and generating functions. Our clear and concise language makes complex mathematical concepts accessible to readers with varying levels of mathematical background. Each concept is illustrated with examples and applications to demonstrate its relevance and practical significance in various domains, emphasizing the practical applications of discrete mathematics. We explore its use in computer science, cryptography, optimization, network theory, and other scientific disciplines. Each chapter includes exercises and problems to reinforce learning, test understanding, and encourage further exploration of the material. Additional resources, including supplementary materials, interactive exercises, and solutions to selected problems, are available online to complement the book and facilitate self-study and review. Whether you are a student looking to gain a solid foundation in discrete mathematics, an educator seeking to enhance your teaching materials, or a practitioner interested in applying discrete mathematics techniques to real-world problems, *Mastering Discrete Mathematics* offers valuable insights and resources to support your learning and exploration of this fascinating field.

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