

We have color-coded the exponents to show how the exponents of 2, 3, and 5 in the product 180 are the sums of the exponents of those primes in the decompositions of the two factors 18 and 10.

Another important fact about prime numbers is that there are infinitely many of them.

Theorem 1.8. *There are arbitrarily large prime numbers.*

“Arbitrarily large” means that for every $n > 0$, there is a prime number greater than n .

Proof. Pick some value of k for which we know there are at least k primes, and let p_1, \dots, p_k be the first k primes in increasing order. (Since $p_1 = 2$, $p_2 = 3$, $p_3 = 5$, we could certainly take $k = 3$.) We’ll show how to find a prime number greater than p_k . Since this process could be repeated indefinitely, there must be infinitely many primes.

Consider the number N that is one more than the product of the first k primes:

$$N = (p_1 \cdot p_2 \cdot \dots \cdot p_k) + 1. \quad (1.9)$$

Dividing N by any of p_1, \dots, p_k would leave a remainder of 1. So N has no prime divisors less than or equal to p_k . Therefore, either N is not prime but has a prime factor greater than p_k , or else N is prime itself. ■

In the $k = 3$ case, for example, $N = 2 \cdot 3 \cdot 5 + 1 = 31$. Here N itself is prime; Problem 1.11 asks you to find an example of the case in which N is not prime.

A *common divisor* of two numbers is a number that divides both of them. For example, 21 and 36 have the common divisors 1 and 3, but 16 and 21 have no common divisor greater than 1.

With this by way of background, let’s work a number theory example that uses the Pigeonhole Principle.

Example 1.10. *Choose m distinct numbers between 2 and 40 inclusive, where $m \geq 13$. Then at least two of the numbers have some common divisor greater than 1.*

“Between a and b inclusive” means including all numbers that are $\geq a$ and also $\leq b$ —so including both 2 and 40 in this case.

Solution to example. Observe first that there are 12 prime numbers less than or equal to 40: 2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31, 37, no two of which share a factor greater than 1. Let’s define P to be this set of 12 prime numbers. (We needed to specify that $m \geq 13$, because the claim would be false with

Discrete Mathematics For Computer Science Solutions

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Discrete Mathematics for Computer Science Gary Haggard, John Schlipf, Sue Whitesides, 2006 Master the fundamentals of discrete mathematics with DISCRETE MATHEMATICS FOR COMPUTER SCIENCE with Student Solutions Manual CD ROM An increasing number of computer scientists from diverse areas are using discrete mathematical structures to explain concepts and problems and this mathematics text shows you how to express precise ideas in clear mathematical language Through a wealth of exercises and examples you will learn how mastering discrete mathematics will help you develop important reasoning skills that will continue to be useful throughout your career

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Discrete Mathematics Oscar Levin, 2018-07-30 Note This is a custom edition of Levin's full Discrete Mathematics text arranged specifically for use in a discrete math course for future elementary and middle school teachers It is NOT a new and updated edition of the main text This gentle introduction to discrete mathematics is written for first and second year math majors especially those who intend to teach The text began as a set of lecture notes for the discrete mathematics course at the University of Northern Colorado This course serves both as an introduction to topics in discrete math and as the introduction to proof course for math majors The course is usually taught with a large amount of student inquiry and this text is written to help facilitate this Four main topics are covered counting sequences logic and graph theory Along the way proofs are introduced including proofs by contradiction proofs by induction and combinatorial proofs While there are many fine discrete math textbooks available this text has the following advantages It is written to be used in an inquiry rich course It is written to be used in a course for future math teachers It is open source with low cost print editions and free electronic editions

Fundamentals of Discrete Math for Computer Science Tom Jenkyns, Ben Stephenson, 2018-05-03 This clearly written textbook presents an accessible introduction to discrete mathematics for computer science students offering the reader an enjoyable and stimulating path to improve their programming competence The text empowers students to think critically to be effective problem solvers to integrate theory and practice and to recognize the importance of abstraction Its motivational and interactive style provokes a conversation with the reader through a questioning commentary and supplies detailed walkthroughs of several algorithms This updated and enhanced new edition also includes new material on directed graphs and on drawing and coloring graphs in addition to more than 100 new exercises with solutions to selected exercises Topics and features assumes no prior mathematical knowledge and discusses concepts in programming as and when they are needed designed for both classroom use and self study presenting modular and self contained chapters that follow ACM curriculum recommendations describes mathematical processes in an algorithmic manner often supported by a walkthrough demonstrating how the algorithm performs the desired task includes an extensive set of exercises throughout the text together with numerous examples and shaded boxes highlighting key concepts selects examples that demonstrate a practical use for the concept in question Students embarking on the start of their studies of computer science will find this book to be an easy to understand and fun to read primer ideal for use in a mathematics course taken concurrently with their first programming course

Fundamentals of Discrete Math for Computer Science Tom Jenkyns, Ben Stephenson, 2012-10-16 This textbook provides an engaging and motivational introduction to traditional topics in discrete mathematics in a manner specifically designed to appeal to computer science students. The text empowers students to think critically, to be effective problem solvers, to integrate theory and practice, and to recognize the importance of abstraction. Clearly structured and interactive in nature, the book presents detailed walkthroughs of several algorithms, stimulating a conversation with the reader through informal commentary and provocative questions. Features no university level background in mathematics required, ideally structured for classroom use and self study with modular chapters following ACM curriculum recommendations, describes mathematical processes in an algorithmic manner, contains examples and exercises throughout the text, and highlights the most important concepts in each section, selects examples that demonstrate a practical use for the concept in question.

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A Beginner's Guide to Discrete Mathematics W. D. Wallis, 2003 This introduction to discrete mathematics is aimed primarily at undergraduates in mathematics and computer science at the freshmen and sophomore levels. The text has a distinctly applied orientation and begins with a survey of number systems and elementary set theory. Included are discussions of scientific notation and the representation of numbers in computers. Lists are presented as an example of data structures. An introduction to counting includes the Binomial Theorem and mathematical induction, which serves as a starting point for a brief study of recursion. The basics of probability theory are then covered. Graph study is discussed, including Euler and Hamilton cycles and trees. This is a vehicle for some easy proofs, as well as serving as another example of a data structure. Matrices and vectors are then defined. The book concludes with an introduction to cryptography, including the RSA cryptosystem, together with the necessary elementary number theory, e.g. Euclidean algorithm, Fermat's Little Theorem. Good examples occur throughout. At the end of every section, there are two problem sets of equal difficulty. However, solutions are only given to the first set. References and index conclude the work. A math course at the college level is required to handle this text. College algebra would be the most helpful.

Connecting Discrete Mathematics and Computer Science David Liben-Nowell, 2022-08-04 Computer science majors taking a non-programming based course like discrete mathematics might ask, "Why do I need to learn this?" Written with these students in mind, this text introduces the mathematical foundations of computer science by providing a comprehensive treatment of standard technical topics while simultaneously illustrating some of the broad-ranging applications of that material throughout the field. Chapters on core topics from discrete structures, like logic, proofs, number theory, counting, probability, graphs, are augmented with around 60 computer science connections pages introducing their applications, for example, game trees, logic triangulation of scenes in computer graphics, induction, the Enigma machine, counting, algorithmic bias, relations, differential privacy, probability, and paired kidney transplants, graphs. Pedagogical features include "Why You Might Care" sections, quick reference, chapter guides, and key terms, and results summaries, problem solving, and writing tips. Taking it Further, asides with more technical details, and around 1700 exercises, 435 worked examples, and 480 figures.

Mathematical Structures for Computer Science Judith L. Gersting, 2014-01-01 Judith Gersting's *Mathematical Structures for Computer Science* has long been acclaimed for its clear presentation of essential concepts and its exceptional range of applications relevant to computer science majors. Now with this new edition it is the first discrete mathematics textbook revised to meet the proposed new ACM/IEEE standards for the course.

Logic and Discrete Mathematics Willem Conradie, Valentin Goranko, Claudette Robinson, 2015-05-08 Solutions manual to accompany *Logic and Discrete Mathematics: A Concise Introduction*. This book features a unique combination of comprehensive coverage of logic with a solid exposition of the most important fields of discrete mathematics, presenting material that has been tested and refined by the authors in university courses taught over more than a decade. Written in a clear and reader-friendly style, each section ends with an extensive set of exercises, most of them provided with complete solutions, which are available in this accompanying solutions manual.

Discrete Mathematical Structures for Computer Science Bernard Kolman, Robert C. Busby, 1987 This text has been designed as a complete introduction to discrete mathematics primarily for computer science majors in either a one or two semester course. The topics addressed are of genuine use in computer science and are presented in a logically coherent fashion. The material has been organized and interrelated to minimize the mass of definitions and the abstraction of some of the theory. For example, relations and directed graphs are treated as two aspects of the same mathematical idea. Whenever possible, each new idea uses previously encountered material and then developed in such a way that it simplifies the more complex ideas that follow.

Essentials of Discrete Mathematics David J. Hunter, 2015-08-21 Written for the one-term course, the Third Edition of *Essentials of Discrete Mathematics* is designed to serve computer science majors as well as students from a wide range of disciplines. The material is organized around five types of thinking: logical, relational, recursive, quantitative, and analytical. This presentation results in a coherent outline that steadily builds upon mathematical sophistication. Graphs are introduced early and referred to throughout the text, providing a richer context for examples and applications. Students will encounter algorithms near the end of the text after they have acquired the skills and experience needed to analyze them. The final chapter contains, in depth, case studies from a variety of fields including biology, sociology, linguistics, economics, and music.

Discrete Mathematics in Computer Science Donald F. Stanat, David F. McAllister, 1977

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Discrete Mathematics for New Technology, Second Edition Rowan Garnier, John Taylor, 2001-12-01 Updated and expanded Discrete Mathematics for New Technology Second Edition provides a sympathetic and accessible introduction to discrete mathematics including the core mathematics requirements for undergraduate computer science students. The approach is comprehensive yet maintains an easy to follow progression from the basic mathematical ideas to the more sophisticated concepts examined in the latter stages of the book. Although the theory is presented rigorously, it is illustrated by the frequent use of pertinent examples and is further reinforced with exercises, some with hints and solutions, to enable the reader to achieve a comprehensive understanding of the subject at hand. New to the Second Edition: Numerous new examples and exercises designed to illustrate and reinforce mathematical concepts and facilitate students' progression through the topics. New sections on typed set theory and an introduction to formal specification. Presenting material that is at the foundations of mathematics itself. Discrete Mathematics for New Technology is a readable, friendly textbook designed for non-mathematicians as well as for computing and mathematics undergraduates alike.

Student Solutions Guide for Discrete Mathematics and Its Applications Kenneth H. Rosen, 1995 This text provides a balanced survey of major sub-fields within discrete mathematics. It demonstrates the utility of discrete mathematics in the solutions of real-world problems in diverse areas such as zoology, linguistics, and business. Over 200 new problems have been added to this third edition.

Discrete Mathematics for Computer Scientists Joe L. Mott, Abraham Kandel, Theodore P. Baker, 1983 Provides computer science students with a foundation in discrete mathematics using relevant computer science applications.

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