

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

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

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

Essential Discrete Mathematics for Computer Science Harry Lewis, Rachel Zax, 2019-03-19 Discrete mathematics is the basis of much of computer science from algorithms and automata theory to combinatorics and graph theory Essential Discrete Mathematics for Computer Science aims to teach mathematical reasoning as well as concepts and skills by stressing the art of proof It is fully illustrated in color and each chapter includes a concise summary as well as a set of exercises

Logic and Discrete Mathematics Willem Conradie,Valentin Goranko,2015-06-15 A concise yet rigorous introduction to logic and discrete mathematics 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 The chapters on logic propositional and first order provide a robust toolkit for logical reasoning emphasizing the conceptual understanding of the language and the semantics of classical logic as well as practical applications through the easy to understand and use deductive systems of Semantic Tableaux and Resolution The chapters on set theory number theory combinatorics and graph theory combine the necessary minimum of theory with numerous examples and selected applications 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 the accompanying solutions manual Key Features Suitable for a variety of courses for students in both Mathematics and Computer Science Extensive in depth coverage of classical logic combined with a solid exposition of a selection of the most important fields of discrete mathematics Concise clear and uncluttered presentation with numerous examples Covers some applications including cryptographic systems discrete probability and network algorithms Logic and Discrete Mathematics A Concise Introduction is aimed mainly at undergraduate courses for students in mathematics and computer science but the book will also be a valuable resource for graduate modules and for self study

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

Logic and Discrete Mathematics Willem Conradie,Valentin Goranko,Claudette Robinson,2015-06-15 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

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

Essentials of Discrete Mathematics David J. Hunter, 2021-03-01 Written for the one term course Essentials of Discrete Mathematics Fourth Edition is designed to serve computer science and mathematics majors as well as students from a wide range of other disciplines The mathematical material is organized around five types of thinking logical relational recursive quantitative and analytical The final chapter Thinking Through Applications looks at different ways that discrete math thinking can be applied Applications are included throughout the text and are sourced from a variety of disciplines including biology economics music and more

Discrete Mathematics for Computing. Solutions Manual John Eric Mackay Munro, 1992

Student Solutions Guide for Discrete Mathematics and Its Applications Kenneth H. Rosen, 1991 This text is designed for the sophomore junior level introduction to discrete mathematics taken by students preparing for future coursework in areas such as math computer science and engineering Rosen has become a bestseller largely due to how effectively it addresses the main portion of the discrete market which is typically characterized as the mid to upper level in rigor The strength of Rosen's approach has been the effective balance of theory with relevant applications as well as the overall comprehensive nature of the topic coverage Copyright Libri GmbH All rights reserved

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Discrete Mathematics with Applications Thomas Koshy, 2004-01-19 This approachable text studies discrete objects and the relationships that bind them. It helps students understand and apply the power of discrete math to digital computer systems and other modern applications. It provides excellent preparation for courses in linear algebra, number theory, and modern abstract algebra, and for computer science courses in data structures, algorithms, programming languages, compilers, databases, and computation. Covers all recommended topics in a self-contained, comprehensive, and understandable format for students and new professionals. Emphasizes problem-solving techniques, pattern recognition, conjecturing, induction, applications of varying nature, proof techniques, algorithm development, and correctness, and numeric computations. Weaves numerous applications into the text. Helps students learn by doing with a wealth of examples and exercises: 560 examples worked out in detail; more than 3,700 exercises; more than 150 computer assignments; more than 600 writing projects. Includes chapter summaries of important vocabulary, formulas, and properties, plus the chapter review exercises. Features interesting anecdotes and biographies of 60 mathematicians and computer scientists. Instructor's Manual available for adopters. Student Solutions Manual available separately for purchase. ISBN 0124211828

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.

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 1,700 exercises, 435 worked examples, and 480 figures.

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Table of Contents Discrete Mathematics For Computer Science Solutions

1. Understanding the eBook Discrete Mathematics For Computer Science Solutions
 - The Rise of Digital Reading Discrete Mathematics For Computer Science Solutions
 - Advantages of eBooks Over Traditional Books
2. Identifying Discrete Mathematics For Computer Science Solutions
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in a Discrete Mathematics For Computer Science Solutions
 - User-Friendly Interface
4. Exploring eBook Recommendations from Discrete Mathematics For Computer Science Solutions
 - Personalized Recommendations
 - Discrete Mathematics For Computer Science Solutions User Reviews and Ratings
 - Discrete Mathematics For Computer Science Solutions and Bestseller Lists
5. Accessing Discrete Mathematics For Computer Science Solutions Free and Paid eBooks
 - Discrete Mathematics For Computer Science Solutions Public Domain eBooks
 - Discrete Mathematics For Computer Science Solutions eBook Subscription Services
 - Discrete Mathematics For Computer Science Solutions Budget-Friendly Options
6. Navigating Discrete Mathematics For Computer Science Solutions eBook Formats
 - ePub, PDF, MOBI, and More
 - Discrete Mathematics For Computer Science Solutions Compatibility with Devices
 - Discrete Mathematics For Computer Science Solutions Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Discrete Mathematics For Computer Science Solutions
 - Highlighting and Note-Taking Discrete Mathematics For Computer Science Solutions
 - Interactive Elements Discrete Mathematics For Computer Science Solutions
8. Staying Engaged with Discrete Mathematics For Computer Science Solutions

- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Discrete Mathematics For Computer Science Solutions
9. Balancing eBooks and Physical Books Discrete Mathematics For Computer Science Solutions
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Discrete Mathematics For Computer Science Solutions
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Discrete Mathematics For Computer Science Solutions
- Setting Reading Goals Discrete Mathematics For Computer Science Solutions
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Discrete Mathematics For Computer Science Solutions
- Fact-Checking eBook Content of Discrete Mathematics For Computer Science Solutions
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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