

1. If  ${}^n P_3 = 336$ , find the value of  $n$ ?

$$\text{Ans: Given } {}^n P_3 = 336 \Rightarrow \frac{n!}{(n-3)!} = 336 \Rightarrow \frac{n(n-1)(n-2)(n-3)!}{(n-3)!} = 336$$

$$\Rightarrow n(n-1)(n-2) = 8 \cdot (8-1)(8-2). \text{ Therefore } n=8$$

2. If  ${}^{n-1} P_3 : {}^{n+1} P_3 = 5:12$ , Then find the value of  $n$ .

$$\text{Ans: Here } \frac{5}{12} = \frac{{}^{n-1} P_3}{{}^{n+1} P_3} = \frac{(n-2)(n-3)}{n(n+1)}$$

$$\text{or } 5n^2 + 5n = 12n^2 - 60n + 72$$

$$\text{or } 7n^2 - 65n + 72 = 0$$

$$\text{or } (n-8)(7n-9) = 0$$

$$\text{or } n = 8, 9/7;$$

# Discrete Math For Computer Science

**David Liben-Nowell**



## **Discrete Math For Computer Science:**

*Discrete Mathematics for Computer Science* Jon Pierre Fortney, 2020-12-23 *Discrete Mathematics for Computer Science* An Example Based Introduction is intended for a first or second year discrete mathematics course for computer science majors It covers many important mathematical topics essential for future computer science majors such as algorithms number representations logic set theory Boolean algebra functions combinatorics algorithmic complexity graphs and trees Features Designed to be especially useful for courses at the community college level Ideal as a first or second year textbook for computer science majors or as a general introduction to discrete mathematics Written to be accessible to those with a limited mathematics background and to aid with the transition to abstract thinking Filled with over 200 worked examples boxed for easy reference and over 200 practice problems with answers Contains approximately 40 simple algorithms to aid students in becoming proficient with algorithm control structures and pseudocode Includes an appendix on basic circuit design which provides a real world motivational example for computer science majors by drawing on multiple topics covered in the book to design a circuit that adds two eight digit binary numbers Jon Pierre Fortney graduated from the University of Pennsylvania in 1996 with a BA in Mathematics and Actuarial Science and a BSE in Chemical Engineering Prior to returning to graduate school he worked as both an environmental engineer and as an actuarial analyst He graduated from Arizona State University in 2008 with a PhD in Mathematics specializing in Geometric Mechanics Since 2012 he has worked at Zayed University in Dubai This is his second mathematics textbook

*Fundamentals of Discrete Math for Computer Science* Tom Jenkyns, Ben Stephenson, 2012-08-28 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

*Discrete Mathematics for Computer Science* Kenneth Bogart, Clifford Stein, Robert L. Drysdale, 2005-09-08 *Discrete Mathematics for Computer Science* is the perfect text to combine the fields of mathematics and computer science Written by leading academics in the field of computer science readers will gain the skills needed to write and understand the concept of proof This text teaches all the math with the exception of linear algebra that is needed to succeed in computer science The book explores the topics of basic combinatorics number and graph theory logic and proof techniques and many more Appropriate for large or small class sizes or self study

for the motivated professional reader Assumes familiarity with data structures Early treatment of number theory and combinatorics allow readers to explore RSA encryption early and also to encourage them to use their knowledge of hashing and trees from CS2 before those topics are covered in this course

Discrete Mathematics for Computer Science David Liben-Nowell, 2017-09-05 Written exclusively with computer science students in mind Discrete Mathematics for Computer Science provides a comprehensive treatment of standard course topics for the introductory discrete mathematics course with a strong emphasis on the relationship between the concepts and their application to computer science The book has been crafted to enhance teaching and learning ease and includes a wide selection of exercises detailed exploration problems examples and problems inspired by wide ranging applications of computer science and handy quick reference guides for key technical topics throughout Discrete Mathematics for Computer Science provides a lucidly written introduction to discrete mathematics with abundant support for learning including over 450 examples thorough chapter summaries simple quizzes and approximately 1600 homework exercises of widely varying difficulty Each chapter begins with motivational content that relates the chapter topic to computer science practice and the book also includes over fifty Computer Science Connections which discuss applications to computer science such as Rotation Matrices Game Trees Logic and Winning Tic Tac Toe Moore's Law Secret Sharing The Enigma Machine and the First Computer Bayesian Modeling and Spam Filtering and Quantum Computing

*A Logical Approach to Discrete Math* David Gries, Fred B. Schneider, 2013-03-14 This text attempts to change the way we teach logic to beginning students Instead of teaching logic as a subject in isolation we regard it as a basic tool and show how to use it We strive to give students a skill in the propositional and predicate calculi and then to exercise that skill thoroughly in applications that arise in computer science and discrete mathematics We are not logicians but programming methodologists and this text reflects that perspective We are among the first generation of scientists who are more interested in using logic than in studying it With this text we hope to empower further generations of computer scientists and mathematicians to become serious users of logic Logic is the glue Logic is the glue that binds together methods of reasoning in all domains The traditional proof methods for example proof by assumption contradiction mutual implication and induction have their basis in formal logic Thus whether proofs are to be presented formally or informally a study of logic can provide understanding

**Discrete Mathematics for Computer Scientists** J. K. Truss, 1999 This is a new edition of a successful introduction to discrete mathematics for computer scientists updated and reorganised to be more appropriate for the modern day undergraduate audience Discrete mathematics forms the theoretical basis for computer science and this text combines a rigorous approach to mathematical concepts with strong motivation of these techniques via practical examples

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Introductory coverage of formal machines coding theory Over 700 exercises Flexible structure so that the material can be easily adapted for different teaching styles New to this Edition Improved treatment of induction Coverage of more basic algebra List of symbols including page references for definition explanation Modern text design and new exercises to aid student comprehension 0201360616B04062001 **Discrete Math for Computer Science Students** Stahl Zsolt,2016-08-28 Discrete Mathematics for Computer Science Students emphasizes mathematical definitions and proofs as well as applicable methods Topics include formal logic notation proof methods induction well ordering sets relations elementary graph theory integer congruences asymptotic notation and growth of functions permutations and combinations counting principles discrete probability Further selected topics may also be covered such as recursive definition and structural induction state machines and invariants recurrences generating functions *Mathematics of Discrete Structures for Computer Science* Gordon J. Pace,2012-07-09 Mathematics plays a key role in computer science some researchers would consider computers as nothing but the physical embodiment of mathematical systems And whether you are designing a digital circuit a computer program or a new programming language you need mathematics to be able to reason about the design its correctness robustness and dependability This book covers the foundational mathematics necessary for courses in computer science The common approach to presenting mathematical concepts and operators is to define them in terms of properties they satisfy and then based on these definitions develop ways of computing the result of applying the operators and prove them correct This book is mainly written for computer science students so here the author takes a different approach he starts by defining ways of calculating the results of applying the operators and then proves that they satisfy various properties After justifying his underlying approach the author offers detailed chapters covering propositional logic predicate calculus sets relations discrete structures structured types numbers and reasoning about programs The book contains chapter and section summaries detailed proofs and many end of section exercises key to the learning process The book is suitable for undergraduate and graduate students and although the treatment focuses on areas with frequent applications in computer science the book is also suitable for students of mathematics and engineering Discrete Mathematics Using a Computer John O'Donnell,Cordelia Hall,Rex Page,2009-10-12 Computer science abounds with applications of discrete mathematics yet students of computer science often study discrete mathematics in the context of purely mathematical applications They have to figure out for themselves how to apply the ideas of discrete mathematics to computing problems It is not easy Most students fail to experience broad success in this enterprise which is not surprising since many of the most important advances in science and engineering have been precisely applications of mathematics to science and engineering problems To be sure most discrete math textbooks incorporate some aspects applying discrete math to computing but it usually takes the form of asking students to write programs to compute the number of three ball combinations there are in a set of ten balls or at best to implement a graph algorithm Few texts ask students to use

mathematical logic to analyze properties of digital circuits or computer programs or to apply the set theoretic model of functions to understand higher order operations A major aim of this text is to integrate tightly the study of discrete mathematics with the study of central problems of computer science

**Discrete Mathematics For Computer Scientists** Stein Clifford,2010-09

**Discrete Mathematics For Computer Scientist** Ali Selamat,Md Hafiz Selamat,2012 This book serves as an introduction to computer sciences students in the undergraduate levels It will be used as the foundation to understand the discrete mathematic in developing the logic of computer programs Since there are also similar undergraduate computer science programmes in other local and overseas institutions this book is expected to find wider local and international readership Topics covered in this book include set theory and relations functions sequence and string propositional logic predicate logic matrices graph theory and trees As the book serves as an introductory level to computer science students it is expected that once the students are already familiar with the presented contents it will enable them to understand the advanced topics in computer science such as advanced theory of computer science and computational complexity theories The chapters in this book have been organized for the students to learn and understand the main concepts of discrete mathematics for developing computer applications during the period of their studies In information technology IT and computer science fields most of information is represented in digital electronics based on the basic knowledge of discrete mathematics Therefore discrete mathematics is one of the relevant courses to support students for better learning and understanding the nature of computer science and IT It is expected that by using the materials presented in this book students should be able to write statements using mathematical language develop mathematical arguments using logic apply the concept of integers and its role in modeling and solving problems in IT and apply the concept of graph and tree for modeling and solving problems related to real situations

**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

*Lectures On Discrete Mathematics For Computer Science* Bakhadyr M Khossainov,Nodira Khossainova,2012-03-21 This textbook presents fundamental topics in discrete mathematics introduced from the perspectives of a pure mathematician and an applied computer scientist The synergy between the two complementary perspectives is seen throughout the book key concepts are motivated and explained through real world examples and yet are still formalized with mathematical rigor The book is an excellent introduction to discrete mathematics for computer science software engineering and mathematics

students The first author is a leading mathematician in the area of logic computability and theoretical computer science with more than 25 years of teaching and research experience The second author is a computer science PhD student at the University of Washington specializing in database systems The father and daughter team merges two different views to create a unified book for students interested in learning discrete mathematics the connections between discrete mathematics and computer science and the mathematical foundations of computer science Readers will learn how to formally define abstract concepts reason about objects such as programs graphs and numbers investigate properties of algorithms and prove their correctness The textbook studies several well known algorithmic problems including the path problem for graphs and finding the greatest common divisor inductive definitions proofs of correctness of algorithms via loop invariants and induction the basics of formal methods such as propositional logic finite state machines counting probability as well as the foundations of databases such as relational calculus

*Essential Discrete Mathematics for Computer Science* Todd Feil,Joan Krone,2003 This book introduces readers to the mathematics of computer science and prepares them for the math they will encounter in other college courses It includes applications that are specific to computer science helps learners to develop reasoning skills and provides the fundamental mathematics necessary for computer scientists Chapter topics include sets functions and relations Boolean algebra natural numbers and induction number theory recursion solving recurrences counting matrices and graphs For computer scientists and the enhancement of programming skills

**Discrete Mathematics and Graph Theory** K. Erciyes,2021-01-28 This textbook can serve as a comprehensive manual of discrete mathematics and graph theory for non Computer Science majors as a reference and study aid for professionals and researchers who have not taken any discrete math course before It can also be used as a reference book for a course on Discrete Mathematics in Computer Science or Mathematics curricula The study of discrete mathematics is one of the first courses on curricula in various disciplines such as Computer Science Mathematics and Engineering education practices Graphs are key data structures used to represent networks chemical structures games etc and are increasingly used more in various applications such as bioinformatics and the Internet Graph theory has gone through an unprecedented growth in the last few decades both in terms of theory and implementations hence it deserves a thorough treatment which is not adequately found in any other contemporary books on discrete mathematics whereas about 40% of this textbook is devoted to graph theory The text follows an algorithmic approach for discrete mathematics and graph problems where applicable to reinforce learning and to show how to implement the concepts in real world applications

**Discrete Mathematical Algorithm, and Data Structures** Sanjib Sinha,2021-03-26 Readers will learn discrete mathematical abstracts as well as its implementation in algorithm and data structures shown in various programming languages such as C C++ PHP Java C# Python and Dart This book combines two major components of Mathematics and Computer Science under one roof Without the core conceptions and tools derived from discrete mathematics one cannot understand the abstract or the general idea involving

algorithm and data structures in Computer Science The objects of data structures are basically objects of discrete mathematics This book tries to bridge the gap between two major components of Mathematics and Computer Science In any computer science course studying discrete mathematics is essential although they are taught separately except in a few cases Yet a comprehensive book combining these two major components is hard to find out not only that it is almost impossible to understand one without the help of other Hope this book will fill the gap Readers will learn discrete mathematical abstracts as well as its implementation in algorithm and data structures shown in various programming language such as C Java C Python and Dart

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**Discrete Mathematical Structures with Applications to Computer Science** Jean-Paul Tremblay, R. Manohar, 1987

**Discrete Mathematics and Its Applications** Kenneth H. Rosen, 2019 A precise relevant comprehensive approach to mathematical concepts

**A Beginner's Guide to Discrete Mathematics** W.D. Wallis, 2011-10-07 Wallis s book on discrete mathematics is a resource for an introductory course in a subject fundamental to both mathematics and computer science a course that is expected not only to cover certain specific topics but also to introduce students to important modes

of thought specific to each discipline Lower division undergraduates through graduate students Choice reviews Review of the First Edition Very appropriately entitled as a beginner s guide this textbook presents itself as the first exposure to discrete mathematics and rigorous proof for the mathematics or computer science student Zentralblatt Math Review of the First Edition This second edition of A Beginner s Guide to Discrete Mathematics presents a detailed guide to discrete mathematics and its relationship to other mathematical subjects including set theory probability cryptography graph theory and number theory This textbook has a distinctly applied orientation and explores a variety of applications Key Features of the second edition Includes a new chapter on the theory of voting as well as numerous new examples and exercises throughout the book Introduces functions vectors matrices number systems scientific notations and the representation of numbers in computers Provides examples which then lead into easy practice problems throughout the text and full exercise at the end of each chapter Full solutions for practice problems are provided at the end of the book This text is intended for undergraduates in mathematics and computer science however featured special topics and applications may also interest graduate students

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