

ALGORITHMS**Introduction**

The first thing to do when presented with a problem is to construct a model that translates the problem into a mathematical context.

Algorithm

is a finite set of precise instructions for performing a computation or for solving a problem?

Properties shared by algorithms:

Input	An algorithm has input values from a specified set.
Output	From each set of input values an algorithm produces output values from a specified set. The output values are the solution to the problem.
Definite or Precise	The steps of an algorithm must be defined precisely.
Correct	An algorithm should produce the correct output values for each set of input values.
Finite	An algorithm should produce the desired output after a finite (but perhaps large) number of steps for any input in the set.
Effective	It must be possible to perform each step of an algorithm exactly and in a finite amount of time.
Generality	The procedure should be applicable for all problems of the desired form, not just for a particular set of input values.

Searching Algorithms

The objective of a search algorithm is to determine if a certain element, say x , is among a list of elements.

Linear or Sequential Search

Compare x and a_1 .

When $x = a_1$, then the solution is the location or subscript of a_1 , which is 1.

When $x \neq a_1$, then compare x with a_2 .

When $x = a_2$, then the solution is the location or subscript of a_2 , which is 2.

When $x \neq a_2$, then compare x with a_3 .

... and so on until x is equal to one a_i or x is not equal to any element on the list.

ALGORITHM 01: Linear Search in C++ code

```
function linear_search ( int x, int a1, a2, ..., an )
{
    int i;
    i = 1;
    while ( ( i ≤ n ) && ( x ≠ ai ) )
    {
        i = i + 1;
    }
    if ( i ≤ n )
    {
        location = i;
    }
    else // ( i > n )
    {
```

Discrete Mathematics With Algorithms

SRIRAMAN. SRIDHARAN



Discrete Mathematics With Algorithms:

Discrete Mathematics with Algorithms Michael O. Albertson, Joan P. Hutchinson, 1988 Here is a first year course in discrete mathematics requiring no calculus or computer programming experience for students on computer science and mathematics courses The approach stresses finding efficient algorithms rather than existential results It provides an introduction to constructing proofs especially by induction and an introduction to algorithmic problem solving All algorithms are presented in English in a format compatible with the PASCAL programming language The text contains many exercises with answers at the back of the book detailed solutions being supplied for difficult problems 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 *FOUNDATIONS OF DISCRETE MATHEMATICS WITH ALGORITHMS AND PROGRAMMING.* SRIRAMAN. SRIDHARAN, 2018 **Discrete Mathematical Algorithm, and Data Structures** Sanjib Sinha, 2020-05-28 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 1 Introduction to the Discourse Is Discrete Mathematics enough to study Computer Science A short Introduction to Discrete Mathematics What is Discrete Mathematics What is the relationship between Discrete Mathematics and Computer Science Introducing necessary conceptions 2 Introduction to Programming Language and Boolean Algebra

Logic Mathematics and Programming Language Introduction to Boolean Algebra 3 De Morgan's Laws on Boolean Algebra Logical Expression and Algorithm Logical Expression Short Circuit Evaluation Syntax Semantics and Conditional Execution Why we need Control Constructs Discrete Mathematical Notations and Algorithm 4 Data Structures in different Programming languages Mean Median and Mode Array the First Step to Data Structure Let us understand some Array features Set Theory Probability and Array Skewed Mean Maximized Median Complex Array Algorithm 5 Data Structures Abstractions and Implementation How objects work with each other More Algorithm and Time Complexity Introducing Data Structures How Calculus and Linear Algebra are Related to this Discourse 6 Data Structures in Detail Frequently Asked Questions about Data Structures Abstract Data Type ADT Linear Data Structures Modeling of a Structure ArrayList to overcome limitations of Array ArrayList or LinkedList which is faster Collection Framework in programming languages Stack and Queue in Java Deque a high performance Abstract Data Type 7 Algorithm Data Structure Collection Framework and Standard Template Library STL Introducing Algorithm Library Different types of Algorithms Binary Tree and Data Structure Collection Framework in Java Discrete Mathematical Abstractions and Implementation through Java Collection Comparator Comparable and Iterator Standard Template Library in C 8 Time Complexity Order of n or $O(n)$ Big O Notation 9 Set Symmetric Difference and Propositional Logic Why Set is important in Data Structures How Symmetric Difference and Propositional Logic combine 10 Combinatorics and Counting Permutation and Combinations Permutation and Combination What Next

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Discrete Mathematics Martin Aigner, The advent of

fast computers and the search for efficient algorithms revolutionized combinatorics and brought about the field of discrete mathematics This book is an introduction to the main ideas and results of discrete mathematics and with its emphasis on algorithms it should be interesting to mathematicians and computer scientists alike The book is organized into three parts enumeration graphs and algorithms and algebraic systems There are 600 exercises with hints and solutions to about half of them The only prerequisites for understanding everything in the book are linear algebra and calculus at the undergraduate level Praise for the German edition This book is a well written introduction to discrete mathematics and is highly recommended to every student of mathematics and computer science as well as to teachers of these topics Konrad Engel for MathSciNet Martin Aigner is a professor of mathematics at the Free University of Berlin He received his PhD at the University of Vienna and has held a number of positions in the USA and Germany before moving to Berlin He is the author of several books on discrete mathematics graph theory and the theory of search The Monthly article Turan's graph theorem earned him a 1995 Lester R Ford Prize of the MAA for expository writing and his book Proofs from the BOOK with Gunter M Ziegler has been an international success with translations into 12 languages

Discrete Mathematics John G. Kemeny, True BASIC, Inc, 1988 A flexible tool as a supplement to a course in discrete mathematics **Discrete Algorithmic Mathematics** Stephen B. Maurer, Anthony Ralston, 1991 **Discrete Mathematics** Sriraman Sridharan, R.

Balakrishnan, 2019-07-30 Conveying ideas in a user friendly style this book has been designed for a course in Applied Algebra The book covers graph algorithms basic algebraic structures coding theory and cryptography It will be most suited for senior undergraduates and beginning graduate students in mathematics and computer science as also to individuals who want to have a knowledge of the below mentioned topics Provides a complete discussion on several graph algorithms such as Prim's algorithm and Kruskal's algorithm for finding a minimum cost spanning tree in a weighted graph Dijkstra's single source shortest path algorithm Floyd's algorithm Warshall's algorithm Kuhn Munkres Algorithm In addition to DFS and BFS search several applications of DFS and BFS are also discussed Presents a good introduction to the basic algebraic structures namely matrices groups rings fields including finite fields as also a discussion on vector spaces and linear equations and their solutions Provides an introduction to linear codes including cyclic codes Presents a description of private key cryptosystems as also a discussion on public key cryptosystems such as RSA ElGamal and Miller Rabin Finally the Agrawal Kayal Saxena algorithm AKS Algorithm for testing if a given positive integer is prime or not in polynomial time is presented the first time in a textbook Two distinguished features of the book are Illustrative examples have been presented throughout the book to make the readers appreciate the concepts described Answers to all even numbered exercises in all the chapters are given

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as well as providing the key formulae and instructions on their use This is then followed by a detailed account of the most common problems in the area before the reader is invited to practice solving such problems for themselves through a varied series of questions and assignments Topics and features provides an extensive set of exercises and examples of varying levels of complexity suitable for both laboratory practical training and self study offers detailed solutions to many problems applying commonly used methods and computational schemes introduces the fundamentals of mathematical logic the theory of algorithms Boolean algebra graph theory sets relations functions and combinatorics presents more advanced material on the design and analysis of algorithms including asymptotic analysis and parallel algorithms includes reference lists of trigonometric and finite summation formulae in an appendix together with basic rules for differential and integral calculus This hands on study guide is designed to address the core needs of undergraduate students training in computer science informatics and electronic engineering emphasizing the skills required to develop and implement an algorithm in a specific programming language

Probabilistic Methods for Algorithmic Discrete Mathematics Michel Habib,1998-08-19 The book gives an accessible account of modern probabilistic methods for analyzing combinatorial structures and algorithms Each topic is approached in a didactic manner but the most recent developments are linked to the basic material Extensive lists of references and a detailed index will make this a useful guide for graduate students and researchers Special features included a simple treatment of Talagrand inequalities and their applications an overview and many carefully worked out examples of the probabilistic analysis of combinatorial algorithms a discussion of the exact simulation algorithm in the context of Markov Chain Monte Carlo Methods a general method for finding asymptotically optimal or near optimal graph colouring showing how the probabilistic method may be fine tuned to exploit the structure of the underlying graph a succinct treatment of randomized algorithms and derandomization techniques

Discrete Mathematics Mike Piff,1991-06-27 Discrete mathematics is the basic language which every student of computing should take pride in mastering and this book should prove an essential tool in this aim

Computational Discrete Mathematics Helmut Alt,2001-10-24 This book is based on a graduate education program on computational discrete mathematics run for several years in Berlin Germany as a joint effort of theoretical computer scientists and mathematicians in order to support doctoral students and advanced ongoing education in the field of discrete mathematics and algorithmics The 12 selected lectures by leading researchers presented in this book provide recent research results and advanced topics in a coherent and consolidated way Among the areas covered are combinatorics graph theory coding theory discrete and computational geometry optimization and algorithmic aspects of algebra

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

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The Discrete Math Workbook Sergei Kurgalin, Sergei Borzunov, 2020-08-12 This practically focused study guide introduces the fundamentals of discrete mathematics through an extensive set of classroom tested problems Each chapter presents a concise introduction to the relevant theory followed by a detailed account of common challenges and methods for overcoming these The reader is then encouraged to practice solving such problems for themselves by tackling a varied selection of questions and assignments of different levels of complexity This updated second edition now covers the design and analysis of algorithms using Python and features more than 50 new problems complete with solutions Topics and features provides a substantial collection of problems and examples of varying levels of difficulty suitable for both laboratory practical training and self study offers detailed solutions to each problem applying commonly used methods and computational schemes introduces the fundamentals of mathematical logic the theory of algorithms Boolean algebra graph theory sets relations functions and combinatorics presents more advanced material on the design and analysis of algorithms including Turing machines asymptotic analysis and parallel algorithms includes reference lists of trigonometric and finite summation formulae in an appendix together with basic rules for differential and integral calculus This hands on workbook is an invaluable resource for undergraduate students of computer science informatics and electronic engineering Suitable for use in a one or two semester course on discrete mathematics the text emphasizes the skills required to develop and implement an algorithm in a specific programming language

Handbook of Discrete and Combinatorial Mathematics Kenneth H.

Rosen, 2017-10-19 Handbook of Discrete and Combinatorial Mathematics provides a comprehensive reference volume for mathematicians computer scientists engineers as well as students and reference librarians The material is presented so that key information can be located and used quickly and easily Each chapter includes a glossary Individual topics are covered in sections and subsections within chapters each of which is organized into clearly identifiable parts definitions facts and examples Examples are provided to illustrate some of the key definitions facts and algorithms Some curious and entertaining facts and puzzles are also included Readers will also find an extensive collection of biographies This second edition is a major revision It includes extensive additions and updates Since the first edition appeared in 1999 many new discoveries have been made and new areas have grown in importance which are covered in this edition

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