

Design and Analysis of Algorithms - Viva Questions with Answers

Q: What is an Algorithm?

A: An algorithm is a finite set of well-defined instructions to solve a particular problem or perform a task.

Q: What are the characteristics of a good algorithm?

A: Correctness, Finiteness, Definiteness, Input/Output, Efficiency (Time and Space).

Q: What is Time Complexity?

A: Time complexity represents the amount of time an algorithm takes to run, as a function of the size of its input.

Q: What is Space Complexity?

A: Space complexity refers to the amount of memory space an algorithm uses relative to the input size.

Q: What is Big O Notation?

A: Big O notation expresses the upper bound of an algorithm's running time, representing the worst-case scenario.

Q: Explain Divide and Conquer technique.

A: It divides the problem into sub-problems, solves them recursively, and combines their solutions. Examples: Merge Sort, Quick Sort, Binary Search.

Q: Explain the Greedy Method.

A: Greedy algorithms make locally optimal choices at each step. Examples: Prim's, Kruskal's, Dijkstra's Algorithm.

Q: What is Dynamic Programming?

A: Dynamic Programming solves problems by breaking them into subproblems and solving each only once, storing the solution. Examples: Knapsack, Floyd-Warshall.

Q: Difference between Dynamic Programming and Greedy Algorithm?

A: Greedy makes local optimal choices; Dynamic Programming uses previously solved subproblems.

Q: What is the Knapsack Problem?

A: An optimization problem to choose items with given weights and values to maximize value without exceeding weight limit. Types: 0/1 and Fractional.

Q: What is Backtracking?

A: Solves problems by trying to build a solution incrementally and removing solutions that fail constraints.

Algorithm Analysis And Design Viva Questions

Sabine Zange



Algorithm Analysis And Design Viva Questions:

Design and Analysis of Algorithms Parag H. Dave, 2007-09 All aspects pertaining to algorithm design and algorithm analysis have been discussed over the chapters in this book Design and Analysis of Algorithms Resource description page

LABORATORY MANUAL HYDRAULICS AND HYDRAULIC MACHINES RAIKAR, R. V., 2012-09-27 This manual presents 31 laboratory tested experiments in hydraulics and hydraulic machines This manual is organized into two parts The first part equips the student with the basics of fluid properties flow properties various flow measuring devices and fundamentals of hydraulic machines The second part presents experiments to help students understand the basic concepts the phenomenon of flow through pipes and flow through open channels and the working principles of hydraulic machines For each experiment the apparatus required for conducting the experiment the probable experimental set up the theory behind the experiment the experimental procedure and the method of presenting the experimental data are all explained Viva questions with answers are also given In addition the errors arising during recording of observations and various precautions to be taken during experimentation are explained with each experiment The manual is primarily designed for the undergraduate degree students and diploma students of civil engineering mechanical engineering and chemical engineering

Planning and Implementing Assessment Freeman, Richard, Lewis, Roger (BP Professor of Learning Development, University of Humberside), 2016-01-20 This title outlines a set of principles and analytical methods that can be adapted to different assessment scenarios designed to enable readers to construct their own effective methods for assessment Guidelines for design and methods of planning choosing and implementation are provided

Pedagogical Revelations and Emerging Trends C. Sheeba Joice, M. Selvi, 2025-01-27 ICEM 24 was the second edition organized by Saveetha Teaching Learning Centre STLC Saveetha Engineering College India The confluence explored and enhanced the potential of Engineering Educators and Learners with the aim to provide a global platform to identify best practices in teaching and applaud the evolutionary aspects involved in reaching the zenith It consisted of two keynote sessions and paper presentations under two tracks namely Technology Oriented Learner Centric Teaching Learning and Industrial Collaboration in Teaching Learning It proposed to publish research papers on theoretical analysis experimental studies and innovation concerning advanced techniques in the field of pedagogy

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Dissertation Abstracts International ,1990 *Proceedings* ,2005 **The Software Encyclopedia** ,1988 **2005 Joint Assembly** American Geophysical Union. Joint Assembly,2005 *Analysis and Design of Algorithms* Singhal Shefali,2019-09-20 The book has been written in such a way that the concepts and working of algorithms are explained in detail with adequate examples To make clarity on the topic diagrams calculation of complexity algorithms are given extensively throughout Many examples are provided which are helpful in understanding the algorithms by various strategies This content is user focused and has been highly updated including algorithms and their real world examples Key features This book is especially designed for beginners and explains all aspects of algorithm and its analysis in a simple and

systematic manner Algorithms and their working are explained in detail with the help of several illustrative examples Important features like greedy algorithm dynamic algorithm string matching algorithm branch and bound algorithm NP hard and NP complete problems are suitably highlighted Solved and frequently asked questions in the various competitive examinations sample papers of the past examinations are provided which will serve as a useful reference source The book would serve as an extremely useful text for BCA MCA M Sc Computer Science PGDCA BE Information Technology and B Tech and M Tech students Contents Algorithm Algorithmic Strategy Complexity of Algorithms Divide and Conquer Algorithms Greedy Algorithm Dynamic Programming Graph Theory Backtracking Algorithms Branch and Bound Algorithms String Matching Algorithms P and NP Problems

Problem Solving in Data Structures and Algorithms

Using C# Hemant Jain, 2018-10-06 Problem Solving in Data Structures Algorithms is a series of books about the usage of Data Structures and Algorithms in computer programming The book is easy to follow and is written for interview preparation point of view In these books the examples are solved in various languages like Go C C Java C Python VB JavaScript and PHP GitHub Repositories for these books <https://github.com/HemantJain/AuthorBooks> Composition This book introduces you to the world of data structures and algorithms Data structures defines the way in which data is arranged in memory for fast and efficient access while algorithms are a set of instruction to solve problems by manipulating these data structures Designing an efficient algorithm is a very important skill that all software companies e.g. Microsoft Google Facebook etc. pursues Most of the interviews for these companies are focused on knowledge of data structures and algorithms They look for how candidates use concepts of data structures and algorithms to solve complex problems efficiently Apart from knowing a programming language you also need to have good command of these key computer fundamentals to not only qualify the interview but also excel in your jobs as a software engineer This book assumes that you are a C language developer You are not an expert in C language but you are well familiar with concepts of classes functions arrays pointers and recursion At the start of this book we will be looking into Complexity Analysis followed by the various data structures and their algorithms We will be looking into a Linked List Stack Queue Trees Heap Hash Table and Graphs We will also be looking into Sorting Searching techniques In last few chapters we will be looking into various algorithmic techniques Such as Brute Force algorithms Greedy algorithms Divide and Conquer algorithms Dynamic Programming Reduction and Backtracking Table of Contents Chapter 0 How to use this book Chapter 1 Algorithms Analysis Chapter 2 Approach to solve algorithm design problems Chapter 3 Abstract Data Type C Collections Chapter 4 Searching Chapter 5 Sorting Chapter 6 Linked List Chapter 7 Stack Chapter 8 Queue Chapter 9 Tree Chapter 10 Priority Queue Chapter 11 Hash Table Chapter 12 Graphs Chapter 13 String Algorithms Chapter 14 Algorithm Design Techniques Chapter 15 Brute Force Algorithm Chapter 16 Greedy Algorithm Chapter 17 Divide Conquer Chapter 18 Dynamic Programming Chapter 19 Backtracking Chapter 20 Complexity Theory

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The Art of Algorithm Design Sachi Nandan Mohanty, Pabitra Kumar Tripathy, Suneeta Satpathy, 2021-10-14 The Art of Algorithm Design is a complementary perception of all books on algorithm design and is a roadmap for all levels of learners as well as professionals dealing with algorithmic problems Further the book provides a comprehensive introduction to algorithms and covers them in considerable depth yet makes their design and analysis accessible to all levels of readers All algorithms are described and designed with a pseudo code to be readable by anyone with little knowledge of programming This book comprises of a comprehensive set of problems and their solutions against each algorithm to demonstrate its executional assessment and complexity with an objective to Understand the introductory concepts and design principles of algorithms and their complexities Demonstrate the programming implementations of all the algorithms using C Language Be an excellent handbook on algorithms with self explanatory chapters enriched with problems and solutions While other books may also cover some of the same topics this book is designed to be both versatile and complete as it traverses through step by step concepts and methods for analyzing each algorithmic complexity with pseudo code examples Moreover the book provides an enjoyable primer to the field of algorithms This book is designed for undergraduates and postgraduates studying algorithm design

Design and Analysis of Algorithms Parag H. Dave, Himanshu B. Dave, 2013 This second edition of Design and Analysis of Algorithms continues to provide a comprehensive exposure to the subject with new inputs on contemporary topics in algorithm design and algorithm analysis Spread over 21 chapters aptly complemented by five appendices the book interprets core concepts with ease in logical succession to the student's benefit

Algorithms: Design Techniques And Analysis (Second Edition) M H Alsuwaiyel, 2021-11-08 Problem solving is an essential part of every scientific discipline It has two components 1 problem identification and formulation and 2 the solution to the formulated problem One can solve a problem on its own using ad hoc techniques or by following techniques that have produced efficient solutions to similar problems This required the understanding of various algorithm design techniques how and when to use them to formulate solutions and the context appropriate for each of them This book presents a design thinking approach to problem solving in computing by first using algorithmic analysis to study the specifications of the problem before mapping the problem on to data structures then on to the suitable algorithms Each technique or strategy is covered in its own chapter supported by numerous examples of problems and their algorithms The new edition includes a comprehensive chapter on parallel algorithms and many

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