

DATA STRUCTURES VIVA QUESTIONS

1Q) What is a Data Structure?

Ans) A **Data Structure** is a data object together with the relationships that exists among the instances & among the individual elements that compose an instance.

2Q) Types of Data Structures and give examples?

Ans) There are two types of Data Structures:

1. **Linear Data Structures:** A data structure is said to be linear if the elements form a sequence. It is sequential and continues in nature i.e. access the data in sequential manner.

In linear data structure we can not insert an item in middle place and it maintains a linear relationship between its elements

egs: Array, Linked list, Stack, Queue, Dequeue etc.

2. **Non Linear Data Structures:** A data structure is said to be non-linear if elements do not form a sequence. (Not sequential).

It does not maintain any linear relationship between their elements. Every data item is attached to several other data items in a way that is specific for reflecting relationships. The data items are not arranged in a sequential structure.

egs: Trees, Graphs.

[A data structure is linear if every item is related with next and previous item and it is non linear if it is attach with many of the items in specific ways to reflect relationship.]

3Q) What is a Singly Linked List?

Ans) Singly Linked List is a Sequence of dynamically allocated Storage elements, each element of which contains a pointer to its successor. A pointer to the first element of the list is called as head and a pointer to the last element of the list is called as tail used to keep track of the list elements.

4Q) What is Doubly Linked List?

Ans) In Doubly Linked List each element contains two pointers: One Pointer points to its successor and another to its predecessor (previous element).It is also called as two way linked list (traversing can be done in both directions).

Data Structures Lab Viva Questions And Answers

Amol M. Jagtap,Ajit S. Mali



Data Structures Lab Viva Questions And Answers:

Microsoft Azure Lab Practical Book Manish Soni,2024-11-13 Welcome to the Microsoft Azure Laboratory Book This comprehensive guide is crafted to provide a hands on learning experience for all levels of IT professionals and students keen to master Microsoft Azure Through detailed step by step instructions this book will guide you through a series of practical exercises and labs aimed at building your understanding and skills in implementing Azure solutions The focus of this book is not only to explain theoretical concepts but also to engage you actively in implementing what you learn Each chapter introduces a different Azure topic starting with the simplest operations and moving to more complex configurations and deployments The lab exercises are designed to give you real world experience simulating scenarios you might encounter in your professional life

Structure of the Book

- 1 Introduction to Azure Learn the basics of cloud computing with Azure exploring core services such as Azure Compute Storage and Networking
- 2 Virtual Machines and Networks Dive into creating and managing virtual machines setting up virtual networks and configuring network security groups
- 3 Storage Solutions Implement various storage solutions in Azure including Blob Storage File Storage and Queue Storage Learn how to manage data access and security
- 4 Azure Active Directory Explore identity services with Azure Active Directory and learn how to manage users and group access
- 5 Azure App Services Gain hands on experience deploying web apps and mobile apps using Azure App Services Understand scaling options and continuous deployment
- 6 Databases and SQL Services Set up and manage SQL databases in Azure Learn about scaling backup and restore operations

Microsoft SQL Server Lab Book Manish Soni,2024-11-13 This book is your companion on a journey through the intricate and dynamic world of Microsoft SQL Server an open source relational database management system that has captivated the hearts of developers database administrators and businesses worldwide In a data driven era where information is the lifeblood of organizations mastering a robust and versatile database system like Microsoft SQL Server is of paramount importance This book is tailored to meet the diverse needs of readers whether you re taking your first steps into the realm of databases or you re an experienced database professional looking to deepen your Microsoft SQL Server expertise This book covers a wide range of topics starting with the foundational concepts of databases and gradually progressing to advanced techniques and emerging trends Here s a glimpse of what you can expect

- 1 Clarity and Depth We break down complex concepts into manageable pieces ensuring you can grasp the intricacies of Microsoft SQL Server while building a strong foundation of understanding
- 2 Practical Experience Real world examples and hands on exercises help you apply Microsoft SQL Server concepts in practical scenarios from designing efficient databases to optimizing performance
- 3 Comprehensive Coverage Whether you re interested in SQL queries database design stored procedures or advanced topics like replication and cloud integration this book covers it all
- 4 Best Practices Throughout the book we emphasize best practices for Microsoft SQL Server development administration and security
- 5 A Learning Journey We ve structured the content to take you from Microsoft SQL Server basics to advanced

techniques allowing you to grow your skills at your own pace As you navigate through these pages you ll find the collective wisdom of experienced database professionals developers and Microsoft SQL Server enthusiasts who have contributed to this comprehensive resource We d like to express our gratitude to the Microsoft SQL Server community whose passion and dedication have played an instrumental role in shaping this book We d also like to thank our families friends and colleagues for their unwavering support throughout this endeavour We believe that this book will be a valuable resource on your journey to becoming a Microsoft SQL Server master Whether you re a student a professional or an enthusiast we hope this book equips you with the knowledge and skills you need to harness the full potential of Microsoft SQL Server Thank you for choosing this book as your guide to the fascinating world of Microsoft SQL Server Let s embark on this Microsoft SQL Server adventure together

Te HS&T J Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2004-02

The Software Encyclopedia ,1988

Data Structures & Algorithms Interview Questions You'll Most Likely Be Asked Vibrant Publishers,2016-12-14 Features 200 Data Structures 77 HR Interview Questions Real life scenario based questions Strategies to respond to interview questions 2 Aptitude Tests The book is a perfect companion to stand ahead above the rest in todays competitive job market Rather than going through comprehensive textbook sized reference guides this book includes only the information required immediately for job search to build an IT career This book puts the interviewee in the driver s seat and helps them steer their way to impress the interviewer

Forthcoming Books Rose Arny,1993-12

Tips and Tricks on Data Structures Rout Susant K.,2014 The importance of Data Structures in programming cannot be over emphasized It has been felt that the even after studying data structures in details in the academic semester there remains a gap for fortification of the concepts ad applications on this which this book attempts to address This book covers the basics of Data Structures including Tips and Tricks application of Data structures questions of Campus Interview and programming assignments It is written in a lucid style keeping in mind the readers who aspire to become a good programmer This books will be a great resource for the beginner for semester preparation with a practical approach using C program to anybody preparing for campus interviews and also help to experts to rediscover and recapitulate on data structures Key Features 100 Tricky Objective type questions and answers for Campus interview 50 selective multiple choice questions In depth coverage of different programs using C on Array Link list stack queue graph tree searching and sorting

Introduction to Algorithms & Data Structures Bolakale Aremu,Charles Johnson Jr.,2023-09-02 This playbook is the third volume of the series Introduction to Algorithms Data Structures It is a very comprehensive data structures and algorithms book It is packed with text tutorials with a lot of illustrations 5 hours of HD video tutorials updated regularly popular interview questions asked by Google Microsoft Amazon and other big companies hands on lessons practice exercises and solutions codes written during the course and screenshots used in this book Most data structure books and courses are too academic and boring They have too much math and their codes look ugly old and disgusting This book is bundled with tutorial videos that are fun and easy to

follow along and show you how to write beautiful code like a software engineer not a mathematician Mastering data structures and algorithms is essential to getting your dream job So don t waste your time browsing disconnected tutorials or super long boring courses If you failed a job interview because you couldn t answer basic data structure and algorithm questions just study this book and its accompanying videos Understanding data structures and algorithms is crucial to excel as a software engineer That s why companies like Google Microsoft and Amazon always include interview questions on data structures and algorithms I will teach you everything you need to know about data structures and algorithms so you can ace your coding interview with confidence This course is a perfect mix of theory and practice packed with popular interview questions Another benefit is that data structures and algorithms will make you think more logically They can help you design better systems for storing and processing data They also serve as a tool for optimization and problem solving As a result the concepts of algorithms and data structures are very valuable in any field For example you can use them when building a web app or writing software for other devices You can apply them to machine learning and data analytics which are two hot areas right now If you are a hacker algorithms and data structures are also important for you everywhere Whatever your preferred learning style I ve got you covered If you re a visual learner you ll love my HD videos and illustrations throughout this book If you re a practical learner you ll love my hands on lessons and practice exercises so that you can get practical with algorithms and data structures and learn in a hands on way

Introduction to Algorithms & Data Structures, 3 Bolakale

Aremu, Charles Johnson Jr, 2023-09-02 This playbook is the third volume of the series Introduction to Algorithms Data Structures It is written in the form of a course It is a very comprehensive data structures and algorithms book packed with Most data structure books and courses are too academic and boring They have too much math and their codes look ugly old and disgusting This book is bundled with tutorial videos that are fun and easy to follow along and show you how to write beautiful code like a software engineer not a mathematician Mastering data structures and algorithms is essential to getting your dream job So don t waste your time browsing disconnected tutorials or super long boring courses If you failed a job interview because you couldn t answer basic data structure and algorithm questions just study this book and its accompanying videos Understanding data structures and algorithms is crucial to excel as a software engineer That s why companies like Google Microsoft and Amazon always include interview questions on data structures and algorithms I will teach you everything you need to know about data structures and algorithms so you can ace your coding interview with confidence This course is a perfect mix of theory and practice packed with over 100 popular interview questions Another benefit is that data structures and algorithms will make you think more logically They can help you design better systems for storing and processing data They also serve as a tool for optimization and problem solving As a result the concepts of algorithms and data structures are very valuable in any field For example you can use them when building a web app or writing software for other devices You can apply them to machine learning and data analytics which are two hot areas right

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C & Data Structures Muniswamy,2007 This book is designed for the way we learn This text is intended for one year or two semester course in C programming and Data Structures This is a very useful guide for undergraduate engineering and graduate students Its clear analytic explanations in simple language also make it suitable for study by polytechnic students Beginners and professionals alike will benefit from the numerous examples and extensive exercises developed to guide readers through each concept Step by step program code clarifies the concept usage and syntax of C language constructs and the underlying logic of their application Data structures are treated with algorithms trace of the procedures and then programs All data structures are illustrated with simple examples and diagrams The concept of learning by example has been emphasized throughout the book Every important feature of the language is illustrated in depth by a complete programming example Wherever necessary pictorial descriptions of concepts are included to facilitate better understanding Exercises are included at the end of each chapter The exercises are divided into three parts i multiple choice questions which test the understanding of the fundamentals and are also useful for taking competitive tests ii questions and answers these help the undergraduate students and iii review questions and problems enhance the comprehension of the subject Questions from GATE in Computer Science and Engineering are included to support the students who will be taking GATE examination

Lab Manual for Data Structures and Abstractions with Java Frank Carrano,2011-10-28 **C & Data Structures: With Lab Manual, 2/e** V.V. Muniswamy,2009-10-17 This book is designed for the way we learn This text is intended for one year or two semester course in C Programming and Data Structures This is a very useful guide for undergraduate and graduate engineering students Its clear analytic explanations in simple language also make it suitable for study by polytechnic students Beginners and professionals alike will benefit from the numerous examples and extensive exercises developed to guide readers through each concept Step by step program code clarifies the concept usage and syntax of C language constructs and the underlying logic of their applications Data structures are treated with algorithms trace of the procedures and then programs All data structures are illustrated with simple examples and diagrams The concept of learning by example has been emphasized throughout the book Every important feature of the language is illustrated in depth by a complete programming example Wherever necessary pictorial descriptions of concepts are included to facilitate better understanding The common C programs for the C Data Structures Laboratory practice appended at the end of the book is a new feature of this edition Exercises are included at the end of each chapter The exercises are divided in three parts i multiple choice questions which test the understanding of the fundamentals and are also useful for taking competitive tests ii questions and

answers to help the undergraduate students and iii review questions and problems to enhance the comprehension of the subject Questions from GATE in Computer Science and Engineering are included to support the students who will be taking GATE examination

Top 50 Data Structure Theoretical Interview Questions and Answers Knowledge Powerhouse,2018-02-12 Data Structure Theoretical Interview Questions Updated 2018 version This book contains tricky and nasty Data Structure theoretical interview questions that an interviewer asks It is a compilation of advanced Data Structure interview questions after attending dozens of technical interviews in top notch companies like Oracle Google Ebay Amazon etc Each question is accompanied with an answer because you want to save your time while preparing for an interview The difficulty rating on these Questions varies from a Junior level programmer to Architect level How will this book help me By reading this book you do not have to spend time searching the Internet for Data Structure Theoretical interview questions Are there answers in this book Yes each question is followed by an answer in this book It will save your time during interview preparation What is the best way of reading this book You have to first do a slow reading of all the questions in this book Once you go through them in the first pass mark the questions that you could not answer by yourself Then in second pass go through only the difficult questions After going through this book 2 3 times you will be well prepared to face a technical interview for Software Engineer position in Data Structure What is the level of questions in this book This book contains questions that are good for a Associate Software engineer to a Principal Software engineer The difficulty level of question varies in the book from a Fresher to an Experienced professional What are the sample questions in this book Why do we need to perform algorithm analysis in programming What are the main criteria of algorithm analysis What is Asymptotic analysis of an algorithm What are the Asymptotic notations for algorithm analysis What is a Linear data structure What are popular operations that we can perform on a data structure What are the popular approaches to develop an algorithm What are the examples of Greedy approach algorithms What are the examples of Divide and conquer algorithms What are the examples of Dynamic programming algorithms What do you know about Linked list data structure What are the main steps in development of an algorithm What is a Stack data structure What is the main usecase for using Stack What are the main operations of a Stack data structure What is a Queue data structure What is the main usecase of using Queues What are the main operations of a Queue What is a Linear search What is a Binary search How does Bubble sort internally work How does Insertion sort internally work How does Selection sort internally work What is the difference between Insertion sort and Selection sort algorithms How does Shell sort internally work What is a stable sort What is a Graph data structure What are the main operations in Graph data structure What is a Fibonacci series What is a Tree data structure What are the different kinds of Tree traversal mechanisms What is an AVL Tree data structure How does Prim s algorithm to find minimum spanning tree work How does Depth First Search work How does Breadth First Search work What is a Spanning tree data structure How many Spanning trees are in Graph What is Recursion What is a Hash function What is a Trie data structure

What are the pros and cons of using Trie data structure over a Tree or Hash Table What is a Red Black tree

PROGRAMMING and DATA STRUCTURES - II Ashok Kumar R,Thillaiarasu N,Ranjithkumar S,2017-04-06 This laboratory manual is prepared by S Ranjithkumar AP Department of Computer Science and Engineering for PROGRAMMING DATA STRUCTURES LABORATORY II CS 6311 This lab manual can be used as instructional book for students staff and instructors to assist in performing and understanding the experiments In this manual experiments as per syllabus are described and additionally the pre requisite and viva voce questions are displayed

Data Structures Through C Yashavant Kanetkar,2019-09-19 Experience Data Structures C through animations DESCRIPTION There are two major hurdles faced by anybody trying to learn Data Structures Most books attempt to teach it using algorithms rather than complete working programs A lot is left to the imagination of the reader instead of explaining it in detail This is a different Data Structures book It uses a common language like C to teach Data Structures Secondly it goes far beyond merely explaining how Stacks Queues and Linked Lists work The readers can actually experience rather than imagine sorting of an array traversing of a doubly linked list construction of a binary tree etc through carefully crafted animations that depict these processes All these animations are available on the downloadable DVD In addition it contains numerous carefully crafted figures working programs and real world scenarios where different data structures are used This would help you understand the complicated operations being performed on different data structures easily Add to that the customary lucid style of Yashavant Kanetkar and you have a perfect Data Structures book in your hands

KEY FEATURES Strengthens the foundations as detailed explanation of concepts are given Focuses on how to think logically to solve a problem Algorithms used in the book are well explained and illustrated step by step Help students in understanding how data structures are implemented in programs

WHAT WILL YOU LEARN Analysis of Algorithms Arrays Linked Lists Sparse Matrices Stacks Queues Trees Graphs Searching and Sorting

WHO THIS BOOK IS FOR Students Programmers researchers and software developers who wish to learn the basics of Data structures

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Data Structures using C Amol M. Jagtap,Ajit S. Mali,2021-11-08 The data structure is a set of specially organized data elements and functions which are defined to store retrieve remove and search for individual data elements

Data Structures using C A Practical Approach for Beginners covers all issues related to the amount of storage needed the amount of time required to process the data data representation of the primary memory and operations carried out with such data

Data Structures using C A Practical Approach for Beginners book will help students learn data structure and algorithms in a focused way Resolves linear and nonlinear data structures in C language using the algorithm diagrammatically and its time and space complexity analysis Covers interview questions and MCQs on all topics of campus readiness Identifies possible solutions to each problem Includes real life and computational applications of linear and nonlinear data structures This book is primarily aimed at undergraduates and graduates of computer science and information technology Students of

all engineering disciplines will also find this book useful *Basic Data Structures* Ue Kiao, Aditya Chatterjee, 2020-07-31 This book *Basic Data Structures Overview* is a perfect fit as a starting point to get the complete idea of the entire domain and then go into each data structure in depth or recreate the details by thinking on your own This book is also a good fit for you if you have solved Algorithmic problems previously and need to revise the complete idea of *Basic Data Structures* quickly in a day for an upcoming Interview or just for stimulating your brain Over 30 basic data structures have been covered starting with Array and up to useful data structures like Trie and Union Find and data structures for specific applications like Graph Algorithms Dynamic Programming and much more For each data structure we have presented the basic ideas complexity of basic operations advantages disadvantages and key thoughts As you go through this book you will form a good understanding of different data structures in contrast and will be able to answer tough research questions with original thought We have presented some insightful questions based on these basic Data Structures at the end like If using hash map we can search in constant time what does this imply for higher dimensional data like 2D maps This book has been carefully prepared and reviewed by Top programmers and Algorithmic researchers from OpenGenus The University of Tokyo and Tokyo Institute of Technology This is a MUST READ if you want to master Data Structures

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/Author-Books-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

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