

## UNIT - I

**Introduction to Data Structures:** Introduction to the Theory of Data Structures, Data Representations, Abstract Data Types, Data Types, Primitive Data Types, Data Structure and Structured Type, Atomic Type, Difference Between Abstract Data Types, Data Types, and Data Structures, Refinement Stages.

**Principles of Programming and Analysis of Algorithms:** Software Engineering, Program Design, Algorithms, Different Approaches to Designing an Algorithm, Complexity, Big 'O' Notation, Algorithm Analysis, Structured Approach to Programming, Recursion, Tips and Techniques for Writing Programs in 'C'.

### Introduction to Data Structures

#### Introduction to the Theory of Data Structures:

**DATA:** Data is a collection of facts, such as numbers, words, measurements, observations or just descriptions of things.

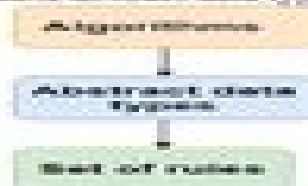
**STRUCTURE:** The **structure** of something is the way in which it is made, **built**, or **organized**.

**DATA STRUCTURES:** A data structure is a special way of storing and organizing data in a computer so that it can be used efficiently.

**Array, Linked List, Stack, Queue, Tree, Graph** etc are all data structures that **stores the data** in a special way so that we can access and use the data **efficiently**.

**Algorithm + Data Structure = Program**

- The data structure is not any programming language like C, C++, java, etc. It is a set of algorithms that we can use in any programming language to structure the data in the memory.
- To structure the data in memory, 'n' number of algorithms were proposed, and all these algorithms are known as Abstract data types. These abstract data types are the set of rules.



- A programmer selects an appropriate data structure and uses it according to their convenience.
- For example, if we have an employee's data like name 'ABC' and salary 10000. Here, 'ABC' is of String data type and 10000 is of Float data type.  
We can organize this data as a record like Employee record and collect & store employee's records in a file or database as a data structure like 'ABC' 10000, 'PQR' 15000, 'STU' 5000.
- Data structure is about providing data elements in terms of some relationship for better organization and storage.
- It is a specialized format for organizing and storing data that can be accessed within appropriate ways.

#### **Why is Data Structure Important?**

- Data structure is important because it is **used in almost every program or software system**.
- It helps to **write efficient code**, structures the code and solve problems.
- **Data can be maintained more easily** by encouraging a better design or implementation.
- **Data structure is just a container for the** data that is used to store, manipulate and arrange. It can be processed by algorithms.

For example, while using a shopping website like Flipkart or Amazon, the users know their last orders and can track them. The orders are stored in a database as records.

# Bca Data Structure Notes In 2nd Sem

**Dinesh P. Mehta, Sartaj Sahni**



## **Bca Data Structure Notes In 2nd Sem:**

**Database Management System (DBMS) A Practical Approach** Rajiv Chopra, 2010 Many books on Database Management Systems DBMS are available in the market they are incomplete very formal and dry My attempt is to make DBMS very simple so that a student feels as if the teacher is sitting behind him and guiding him This text is bolstered with many examples and Case Studies In this book the experiments are also included which are to be performed in DBMS lab Every effort has been made to alleviate the treatment of the book for easy flow of understanding of the students as well as the professors alike This textbook of DBMS for all graduate and post graduate programmes of Delhi University GGSIPU Rajiv Gandhi Technical University UPTU WBTU BPUT PTU and so on The salient features of this book are 1 Multiple Choice Questions 2 Conceptual Short Questions 3 Important Points are highlighted Bold faced 4 Very lucid and simplified approach 5 Bolstered with numerous examples and CASE Studies 6 Experiments based on SQL incorporated 7 DBMS Projects added Question Papers of various universities are also included Population Index, 1976 Annotated bibliography covering books journal articles working papers and other material on topics in population and demography **Data Structures Using C** Khurana Rohit, Data Structures using C provides its readers a thorough understanding of data structures in a simple interesting and illustrative manner Appropriate examples diagrams and tables make the book extremely student friendly It meets the requirements of students in various courses at both undergraduate and postgraduate levels including BTech BE BCA BSc PGDCA MSc and MCA Key Features Presentation for easy grasp through chapter objectives suitable tables and diagrams and programming examples Examination oriented approach through objective and descriptive questions at the end of each chapter Large number of questions and exercises for practice *Data Structures and Algorithms implementation through C* Bakariya Dr. Brijesh, 2019-09-20 Understand the basics and concepts of Data Structure Key features This book is especially designed for beginners explains all basics and concepts about data structure Source code of all programs are given in C language Important data structure like Stack Queue Linked list Trees and Graph are well explained Solved example frequently asked questions in the examinations are given which will serve as a useful reference source Effective description of sorting algorithms Quick Sort Heap Sort Merge Sort etc Description This book is specially designed to serve as textbook for the students of various streams such as PGDCA B Tech B E BCA B Sc M Tech M E MCA MS and cover all the topics of Data Structures The subject data structure is of prime importance for all the students of Computer Science and IT It is a practical approach for understanding the basics and concepts of data structure All the concepts are implemented in C language in an easy manner To make clarity on the topic diagrams examples algorithms and programs are given throughout the book What will you learn New features and essential of Algorithms and Arrays Linked List its type and implementation Stacks and Queues Trees and Graphs Searching and Sorting Who this book is for This book is useful for all the students of B Tech B E MCA BCA B Sc Computer Science and so on Person with basic knowledge in this field can understand the concept

from the beginning of the book itself Table of contents1 Algorithms and Flowchart2 Algorithm Analysis3 Introduction to Data Structure4 Function and Recursion5 Arrays and Pointers6 Strings7 Stacks8 Queues9 Linked lists10 Trees11 Graph12 Searching 13 Sorting14 HashingAbout the authorBrijesh Bakariya working as an Assistant Professor in Department of Computer Science and Engineering I K Gujral Punjab Technical University IKGPTU Jalandhar Punjab has done his Ph D from Maulana Azad National Institute of Technology NIT Bhopal Madhya Pradesh and MCA from Devi Ahilya Vishwavidyalaya Indore Madhya Pradesh in Computer Applications He has been teaching since 2009 and guiding M Tech Ph D students He has also published many research papers in the area of Data Mining and Image Processing

**Data Structures And Algorithms Using C** Jyoti Prakash Singh, The book Data Structures and Algorithms Using C aims at helping students develop both programming and algorithm analysis skills simultaneously so that they can design programs with the maximum amount of efficiency The book uses C language since it allows basic data structures to be implemented in a variety of ways Data structure is a central course in the curriculum of all computer science programs This book follows the syllabus of Data Structures and Algorithms course being taught in B Tech BCA and MCA programs of all institutes under most universities

Introduction to Data Structures in C Ashok N. Kamthane,2002 Introduction to Data Structures in C is an introductory book on the subject The contents of the book are designed as per the requirement of the syllabus and the students and will be useful for students of B E Computer Electronics MCA BCA M S

**DATA STRUCTURE AND ALGORITHM THROUGH C** Brijesh Bakariya,2018-06-04 DESCRIPTIONThis book is specially designed to serve as the textbook for the students of various streams such as PGDCA B Tech B E BCA BSc M Tech M E MCA MS and cover all the topics of Data Structure The subject data structure is of prime importance for the students of Computer Science and IT It is the practical approach to understanding the basics and concepts of the data structure All the concepts are implemented in C language in an easy manner To make clarity on the topic diagrams examples and programs are given throughout the book KEY FEATURESThis book is specially designed for beginners explains all basics and concepts about data structure The source code of all data structures is given in C language Important data structures like Stack Queue Linked List Tree and Graph are well explained Solved example frequently asked in the examinations are given which will serve as a useful reference source Effective description of sorting algorithm Quick Sort Heap Sort Merge Sort etc CD contains all programming codes in C CONTENTS Algorithm and Flow ChartsAlgorithm AnalysisData structureFunctions and RecursionArrays and

PointersStringStacksQueuesLinked ListsTreesGraphsHashing and Sorting CD Contains all Programming codes in C **Data Structures** N. K. Tiwari,Jitendra Agrawal,Shishir K. Shandilya,2016-03 *MCS-021: Data and File structures* Dr. DK Sukhani, This book is useful for IGNOU BCA MCA students A perusal of past questions papers gives an idea of the type of questions asked the paper pattern and so on it is for this benefit we provide these IGNOU MCS 021 Data and File Structures Notes Students are advised to refer these solutions in conjunction with their reference books It will help you to improve your

exam preparations This book covers Basic data structures such as arrays stack and queues and their applications linked and sequential representation Linked list representation of linked list multi linked structures Trees definitions and basic concepts linked tree representation representations in contiguous storage binary trees binary tree traversal searching insertion and deletion in binary trees heap tree and heap sort algorithm AVL trees Graphs and their application sequential and linked representation of graph adjacency matrix operations on graph traversing a graph Dijkstra s algorithm for shortest distance DFS and BFS Hashing Searching and sorting use of various data structures for searching and sorting Linear and Binary search Insertion sort Selection sort Merge sort Radix sort Bubble sort Quick sort Heap Sort Published by MeetCoogole

**Data Structure for Coding Interviews** Rawal Kamal Rawat/Srishty,2018 **C and Data Structures** Prof. P.S. Deshpande,Prof. O.G. Kakde,2003-07-15 This book has been designed for B E M C A B C A or M Sc Students of most Indian universities as well as those preparing for C related aptitude tests and interviews **Data-structures and Programming** Malcolm C. Harrison,1973 **Quick Reference to DATA STRUCTURES and COMPUTER ALGORITHMS** Ramakrishnan Nair Raji,2019-09-20 For beginners to level up Core Programming SkillsKey features Simple and easy to understand Useful for any level of students including B E BTech MCA BCA B Sc Computer Science etc Algorithms used in the book are well explained and illustrated step by step Help students in understanding how data structures are implemented in programs Each module contains question bank which includes questions for competitive examinations like UGC NET placement drives and so on Description The book gives full understanding of theoretical topic and easy implementation in programming The book is going to help students in self learning of data structures and in understanding how these concepts are implemented in programs It contains lot of figures which will help students to visualize the concept effectively Diagrams help students to understand how the programs involving data structure concepts are implemented within the computer system Algorithms are included to clear the concept of data structure Each algorithm is explained with figures to make student clearer about the concept Sample data set is taken and step by step execution of algorithm is provided in the book to ensure the in depth knowledge of students about the concept discussed What will you learn New features and essential of Algorithms and Arrays Linked List its type and implementation Stacks and Queues Trees and Graphs Searching and Sorting Greedy method Beauty of Blockchain Who this book is forThis book is useful for all the students of B Tech B E MCA BCA B Sc Computer Science and so on Person with basic knowledge in this field can understand the concept from the beginning of the book itself We think our book is one of a kind We are trying to connect the past and the present here The last module of our book is focussing on BLOCKCHAIN It explains the concepts of blockchain through a different dimension that is explaining the data structure aspect of blockchain Table of contents1 Algorithm and Arrays2 Linked Lists3 Stacks and queues4 Trees and Graphs5 Searching and Sorting6 Greedy Method7 Beauty of Blockchain About the authorRaji Ramakrishnan Nair has done BCA MCA and M Tech IT and currently working as an Assistant Professor at the P G Department of Computer Applications of Marian

College Kuttikkanam Autonomous She has 14 years of teaching experience and believes that teaching is all about being friend philosopher and guide to her students This book is inspired by her passion to simplify complex subjects for easy understanding the real contribution of a great teacher She is a philanthropist as well actively involved in many social causes which made her students to engage in relief works in Kerala mega flood and resulted in two houses being built for flood victims Her LinkedIn Profile linkedin com in raji ramakrishnan nair 8820b1171 Divya Joseph is a Teacher by passion and profession She has done MTech CSE and BTech IT from Amal Jyothi College of Engineering Kanjirapally Presently she is working as an Assistant Professor in the P G Department of Computer Applications Marian College Kuttikkanam Autonomous Alen Joseph is an Associate Software Developer at UST Global Trivandrum His great passion for teaching and research motivated him to write this book He has done MCA from Marian College Kuttikkanam Autonomous He is a passionate tech enthusiast and his dream is to become a full time researcher      **Notes on Data Structures** Hanan Samet,2002

**Handbook of Data Structures and Applications** Dinesh P. Mehta,Sartaj Sahni,2018-02-21 The Handbook of Data Structures and Applications was first published over a decade ago This second edition aims to update the first by focusing on areas of research in data structures that have seen significant progress While the discipline of data structures has not matured as rapidly as other areas of computer science the book aims to update those areas that have seen advances Retaining the seven part structure of the first edition the handbook begins with a review of introductory material followed by a discussion of well known classes of data structures Priority Queues Dictionary Structures and Multidimensional structures The editors next analyze miscellaneous data structures which are well known structures that elude easy classification The book then addresses mechanisms and tools that were developed to facilitate the use of data structures in real programs It concludes with an examination of the applications of data structures Four new chapters have been added on Bloom Filters Binary Decision Diagrams Data Structures for Cheminformatics and Data Structures for Big Data Stores and updates have been made to other chapters that appeared in the first edition The Handbook is invaluable for suggesting new ideas for research in data structures and for revealing application contexts in which they can be deployed Practitioners devising algorithms will gain insight into organizing data allowing them to solve algorithmic problems more efficiently

**Introduction to Data Structures in C** Ashok Namdev Kamthane,2004      DATA STRUCTURE AND ALGORITHMS. MADE EASY GUIDE . Harry. H. Chaudhary.,2014-06-02 Essential Data Structures Skills Made Easy This book gives a good start and Complete introduction for data structures and algorithms for Beginner s While reading this book it is fun and easy to read it This book is best suitable for first time DSA readers Covers all fast track topics of DSA for all Computer Science students and Professionals Data Structures and Other Objects Using C or C takes a gentle approach to the data structures course in C Providing an early text gives students a firm grasp of key concepts and allows those experienced in another language to adjust easily Flexible by design Finally a solid foundation in building and using abstract data types is also

provided Using C this book develops the concepts and theory of data structures and algorithm analysis in a gradual step by step manner proceeding from concrete examples to abstract principles Standish covers a wide range of Both traditional and contemporary software engineering topics This is a handy guide of sorts for any computer science engineering Students Data Structures And Algorithms is a solution bank for various complex problems related to data structures and algorithms It can be used as a reference manual by Computer Science Engineering students this Book also covers all aspects of B TECH CS IT and BCA and MCA BSC IT Inside Chapters 1 Introduction 2 Array 3 Matrix 4 Sorting 5 Stack 6 Queue 7 Linked List 8 Tree 9 Graph 10 Hashing 11 Algorithms 12 Misc Topics 13 Problems      **Data Structure for C Programming** Ajay Kumar,2004

**Data Structures using C, 2e** A.K. Sharma,2013 A data structure is the logical organization of a set of data items that collectively describe an object Using the C programming language Data Structures using C describes how to effectively choose and design a data structure for a given situation or problem The book has a balance between the fundamentals and advanced features supported by solved examples This book completely covers the curriculum requirements of computer engineering courses      **Data Structures Using C: For BPUT** Ashok N. Kamthane,2011 Data Structures Using C For BPUT is customized to meet the requirements of the students of Biju Patnaik University of Technology in their second semester this reader friendly and example driven book introduces students to the basics of data structures and their applications in C programming along with a large number of solved examples and chapters mapped to the university syllabus

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