

DATA STRUCTURES USING C

UNIT – 1: 1.1 Introduction to Data structures

Data structure deals with the composition of data to be manipulated by the program. This is done in conjunction with the algorithm for the program. Data structures are commonly used in many program designs. The study of data structures, therefore, rightly forms the central course of any curriculum in computer science and engineering.

The following are list of various terms used in data structures

Data: Value or set values.

Data item: Single unit of values.

Group item: Data items that are divided into sub-items.

Elementary items: Data items that are not divided into sub-items.

Entity: Something that has certain attributes or properties which may have assigned values

Example:	Attributes:	Name	Age	Sex
	Values:	Abhishek	16	Male

Entity set: Entities with similar attributes

Example: All employees in an organization.

Information field: Meaningful or processed data.

Field: Single elementary unit of information representing an attribute or an entity.

Record: Collection of records of the entities in a given entity set.

1.1 Definition of Data Structure

Data structure is the logical or mathematical model of a particular organization of data.

OR

Data structure is an organized collection of a number of related data items that are treated as one by the computer.

OR

A data structure is a logical method of representing data in memory.

1.2 Types of Data Structures

Data structures are classified as into two different types, namely;

1. Primitive data structures
2. Non-primitive data structures

1.2.1 Primitive data structures

The data structures are the pre-defined data types by programming languages, which can be directly operated are called primitive data structures. These are used by the programmer during the creation of new variables.

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Marco Casella



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Table of Contents Data Structure Using C International Edition

1. Understanding the eBook Data Structure Using C International Edition
 - The Rise of Digital Reading Data Structure Using C International Edition
 - Advantages of eBooks Over Traditional Books
2. Identifying Data Structure Using C International Edition
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Data Structure Using C International Edition
 - User-Friendly Interface
4. Exploring eBook Recommendations from Data Structure Using C International Edition
 - Personalized Recommendations
 - Data Structure Using C International Edition User Reviews and Ratings
 - Data Structure Using C International Edition and Bestseller Lists
5. Accessing Data Structure Using C International Edition Free and Paid eBooks
 - Data Structure Using C International Edition Public Domain eBooks
 - Data Structure Using C International Edition eBook Subscription Services
 - Data Structure Using C International Edition Budget-Friendly Options

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 - ePub, PDF, MOBI, and More
 - Data Structure Using C International Edition Compatibility with Devices
 - Data Structure Using C International Edition Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Data Structure Using C International Edition
 - Highlighting and Note-Taking Data Structure Using C International Edition
 - Interactive Elements Data Structure Using C International Edition
8. Staying Engaged with Data Structure Using C International Edition
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Data Structure Using C International Edition
9. Balancing eBooks and Physical Books Data Structure Using C International Edition
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Data Structure Using C International Edition
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Data Structure Using C International Edition
 - Setting Reading Goals Data Structure Using C International Edition
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Data Structure Using C International Edition
 - Fact-Checking eBook Content of Data Structure Using C International Edition
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

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