

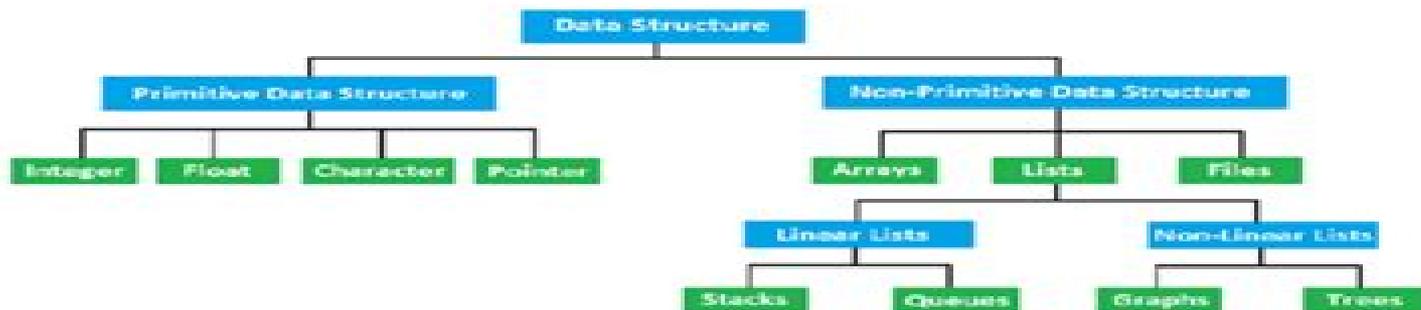
Data Structures Using C++

Unit I

Introduction

A **data structure** is a special way of organizing and storing data in a computer so that it can be used efficiently. Array, Linked List, Stack, Queue, Tree, Graph etc. are all data structures that store the data in a special way so that we can **access and use the data efficiently**. Each of these mentioned **data structures** has a different special way of organizing data so we choose the data structure based on the requirement. So, data structure is a collection of data elements and its manipulation functions.

Classification of data structures



Data structure is basically classified into two categories-

- Primitive Data type
- Non-primitive data type

But often Data structures in C++ are classified by their characteristics of storing data. Possible characteristics are:

1-**Linear or non-linear**: This characteristic describes whether the data items are arranged in **ordered sequence**, such as with an **array**, or in an **unordered sequence**, such as with a **graph**.

2-**Homogeneous or non-homogeneous**: This characteristic describes whether all data items in a given repository are of the same data type or of various types. for example- An **array** has **similar data type stored contiguously** but a **Structure** has **collection of different data types**.

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