

Introduction

* Data Structure:

Data Structure is a storage that can use to store and organized the data.

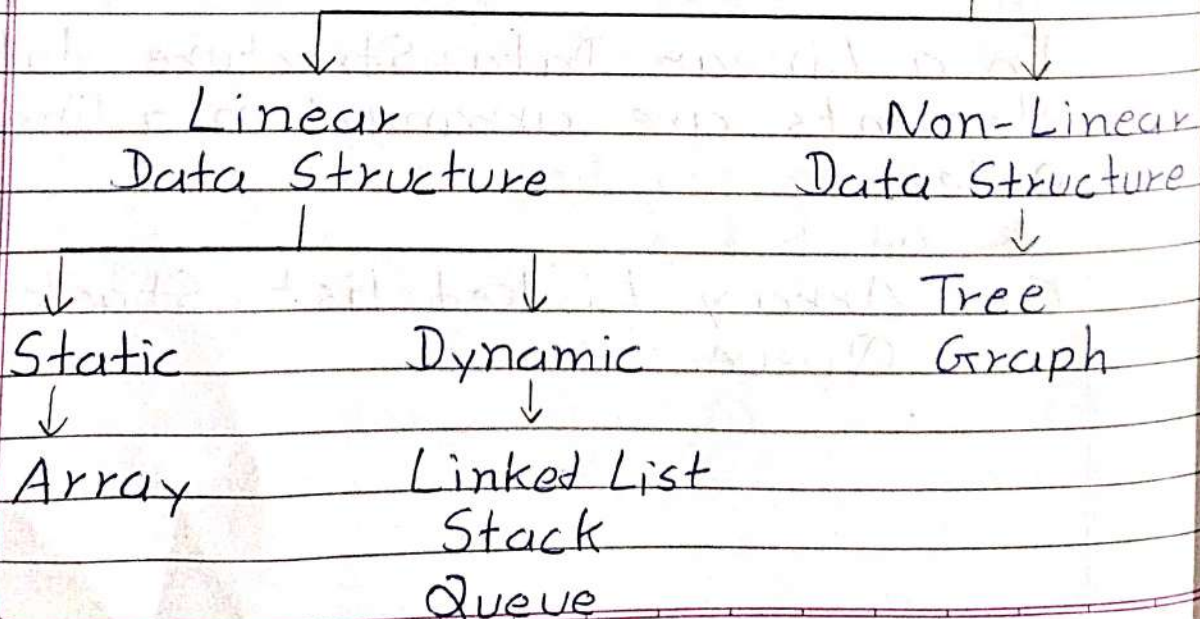
There are two type of Data Structure.

- 1) Primitive Data Structure
- 2) Non-Primitive Data Structure

Data Structure

Primitive
Data Structure

Non-Primitive
Data Structure



1 Primitive Data Structure:

A Primitive Data Structure can store the value of only one data type.

Ex. int, char, float etc.

2 Non-Primitive Data Structure:

Non-Primitive Data structure is a type of data structure that can store the data of more than one type.

There are two types of Non-Primitive Data Structure.

- 1) Linear Data Structure
- 2) Non-Linear Data Structure

(1) Linear Data Structure:

In a Linear Data Structure, data elements are arranged in a linear order.

Ex. Array, Linked list, Stack, Queue.

(2) Non-Linear Data Structure:

In a Non-Linear Data Structure, data elements are arranged in a hierarchically manner.

Ex. Graph, Tree.

* Data Structure Operations:

There are many type of data Structure Operations.

- 1 Insertion : Adds an element at the given index.
- 2 Deletion : Deletes an element at the given index.
- 3 Traverse : Print all the index elements One by one.

where, index means location of the element.