

Introduction

Content

What is Data Structures?

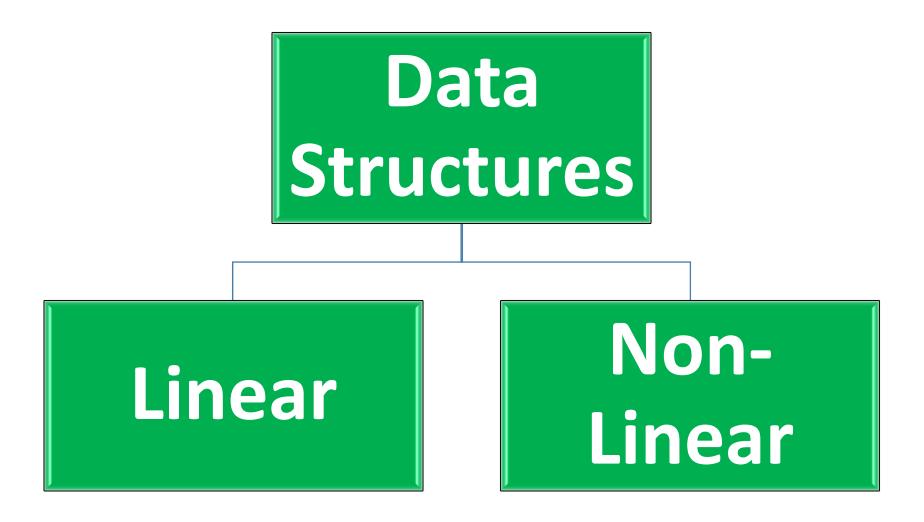
Types of Data Structures.

Operations on data structures.

What is Data Structures?

- Data Structures: Organizing large amount of data with more efficiently.
- Storing the large amount of data in different structural format.
- If we want to work with a huge amount of data, then organizing that data is very important.
- If the data is not organized effectively, it is very difficult to perform any operation on that data.
- If it is organized effectively then any operation can be performed easily on that data.

Types of Data Structures



Linear Data Structures

- If a data structure organizes the data in sequential order, then that data structure is called a Linear Data Structure.
- Example
- Arrays
- Linked List
- Stack
- Queue

Non-Linear Data Structures

- If a data structure organizes the data in random order, then that data structure is called as Non-Linear Data Structure.
- Example
- Trees
- Graphs
- Dictionaries
- Heaps
- Tries

Operations on data structures

- Creation
- Insertion
- Deletion
- Search