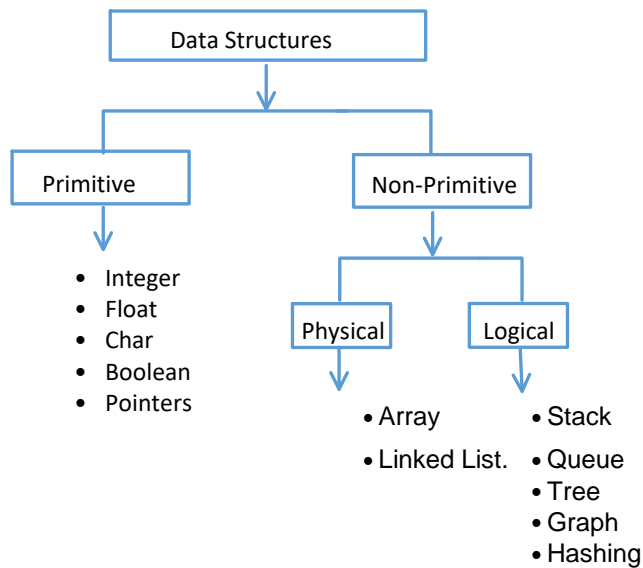


Classification of Data Structures:

Wednesday, 28 September 2022 11:35 AM

Based on Physical and Logical Data Structures:



Physical Data Structures:

How the data is stored physically in our main memory. It can be of two types:

- Array [contiguous memory allocation: placing elements in the main memory in a proper order]
- Linked List [random memory allocation: placing elements in the main memory in a random order]

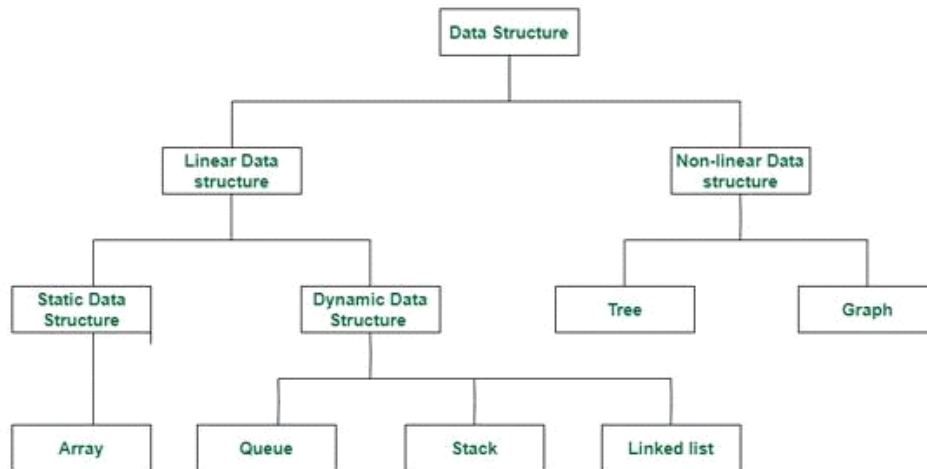
Logical Data Structures:

Accessing the data stored by performing some operations such as:

- Stack
- Queue
- Tree
- Graph
- Hashing

Based on Linear /Non-Linear and Static/Dynamic Data Structures:

Classification of Data Structure



There are two types of Data Structures:

- **Linear:**
 - Static Dynamic
 - Array
 - Dynamic
 - Queue
 - Stack
 - Linked List
- **Non-Linear:**
 - Graph
 - Tree

Based on Primitive/Non-Primitive and Linear/Non-Linear Data Structures

