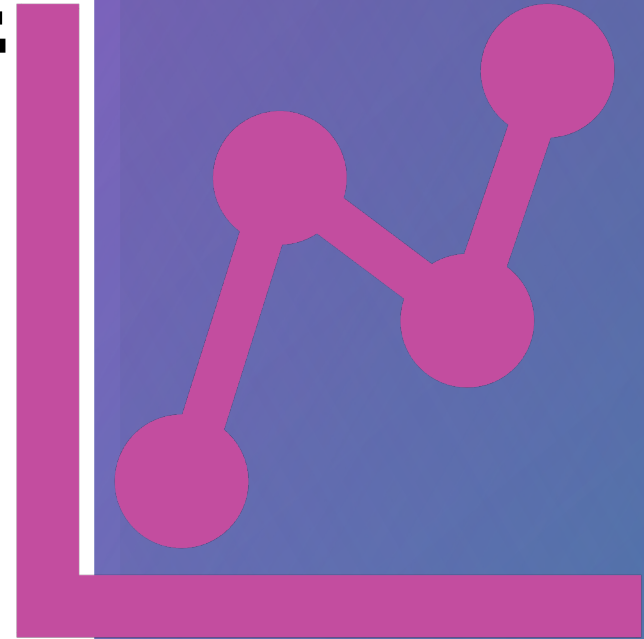# LINEAR DATA STRUCTURES

MARTZEL P. BASTE

LINEAR DATA STRUCTURE

- Arranged in Sequence

- Direct linked to each value.

- traversal of the data is achieved through a single run only.

CHARACTERISTICS

data are stored and managed in a linear sequence.

Data elements in the sequence are linked to one after the other.

Implementation on computer's memory is easy

Array, queue. Stack, linked list, etc. are examples of this type of structure.
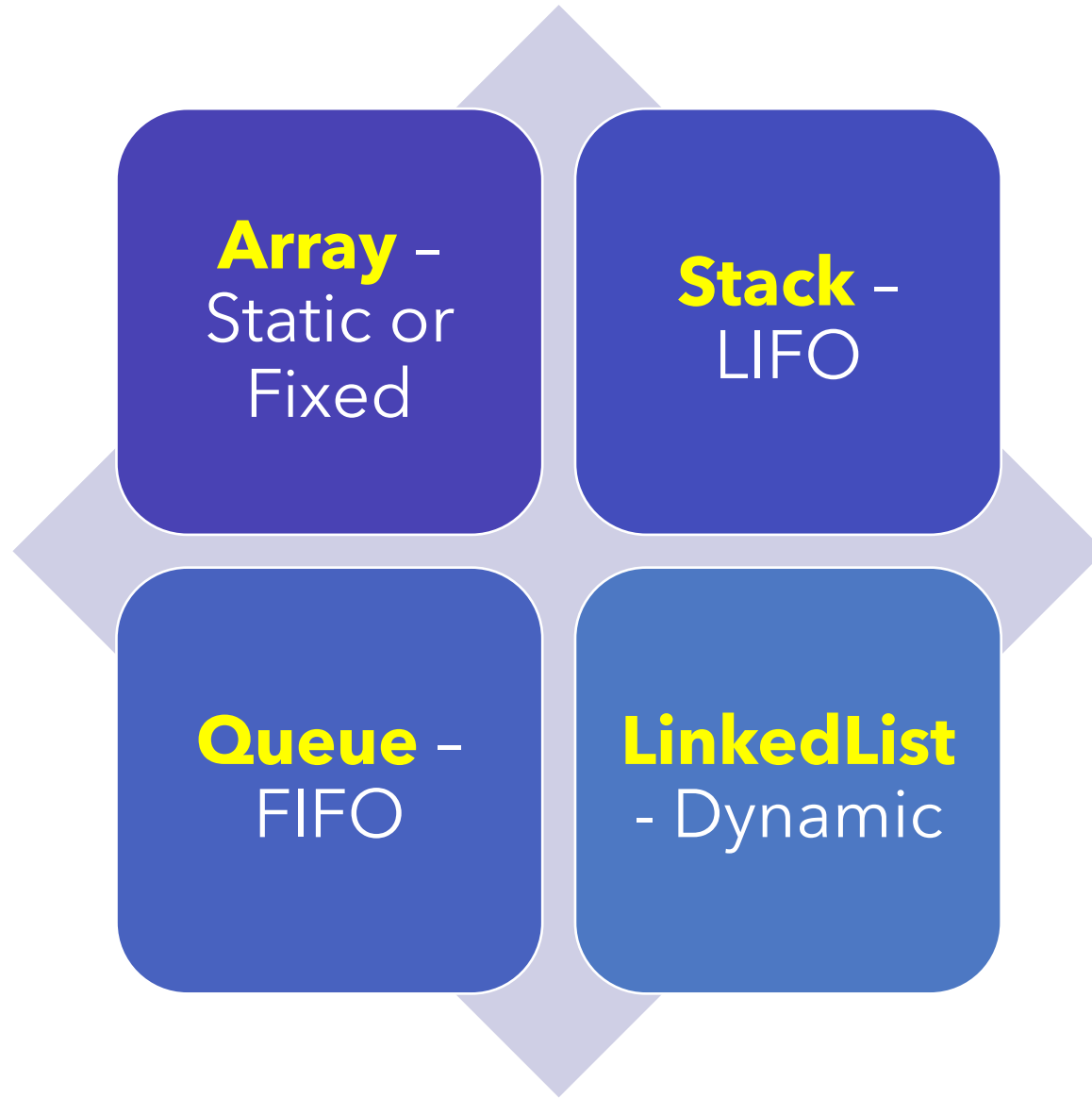
only one relationship.

data elements are stored in a single level.

poor utilization of the computer memory

With the increase in the size of the data structure, the time complexity of the structure increases.

COMMON TYPES

Array – Static or Fixed

Stack – LIFO

Queue – FIFO

LinkedList - Dynamic

THANK YOU!