DATA STRUCTURES

IN C LANGUAGE

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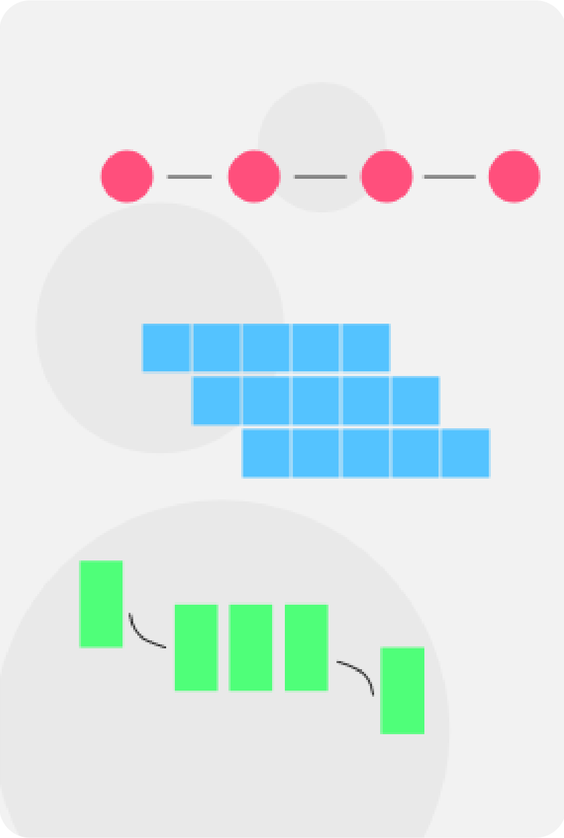
INTRODUCTION TO DATA STRUCTURES



In essence, data structures refer to the organization of data. They provide a means to handle large amounts of data and perform operations on this data.

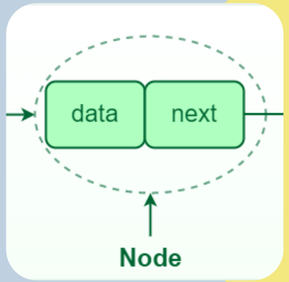
It's as straightforward as that!

TYPES OF DATA STRUCTURE

ARRAYS

Arrays store elements in contiguous memory locations.

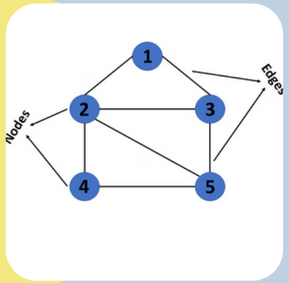
LINKED LIST



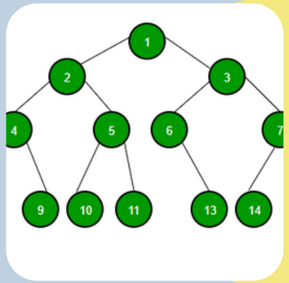
Linked lists are linear and contain nodes that hold the data.

GRAPH

A graph consists of a set of nodes (vertices) connected by edges.



BINARY TREE



A binary tree is a hierarchy in which each node has at most two children.

WHY DATA STRUCTURES

WHY NOT?

GET TO WORK!