ARRAY

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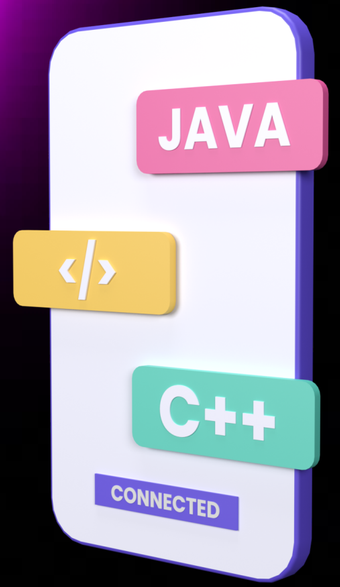
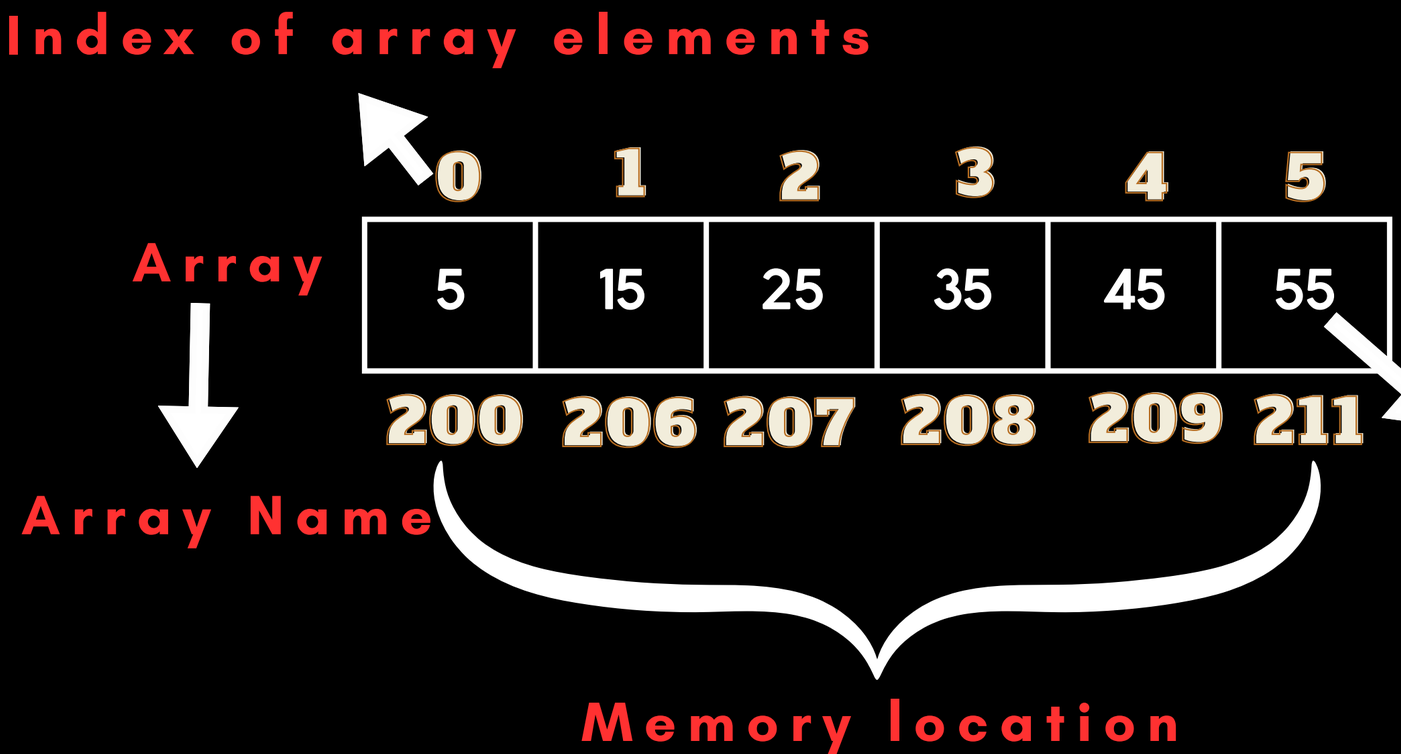


NEXT ➡

Array

- An Array is a collection of items stored at a contiguous memory location. The idea is to store multiple items of the same type together.



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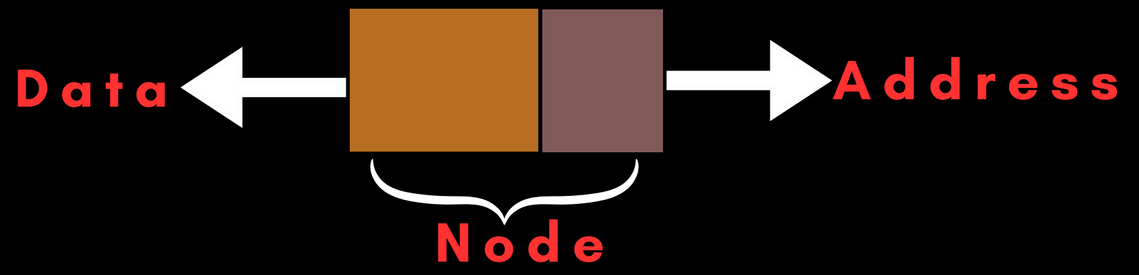
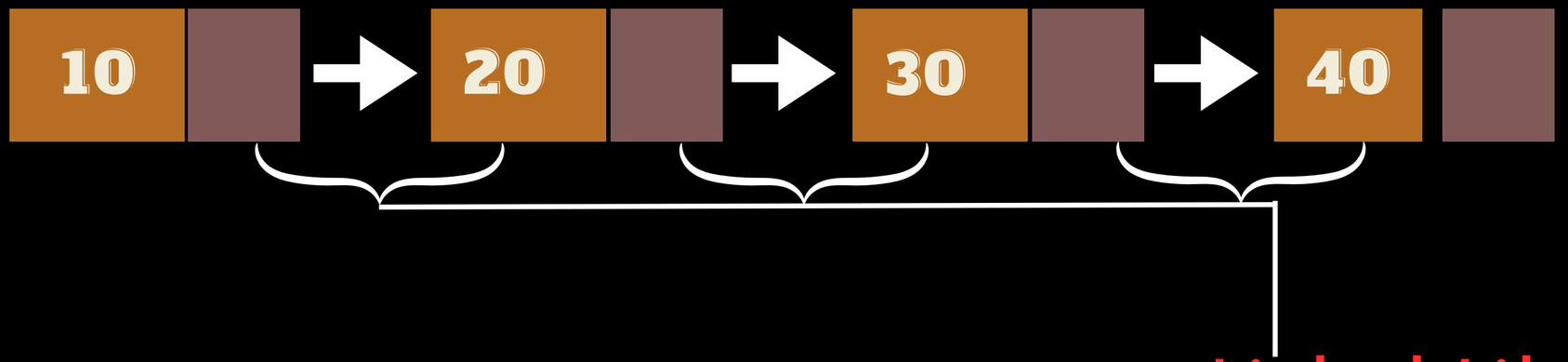
Linked List

- A Linked List is a linear data structure , in which the elements are not stored at consist of a data field and a link to the next node in the list .





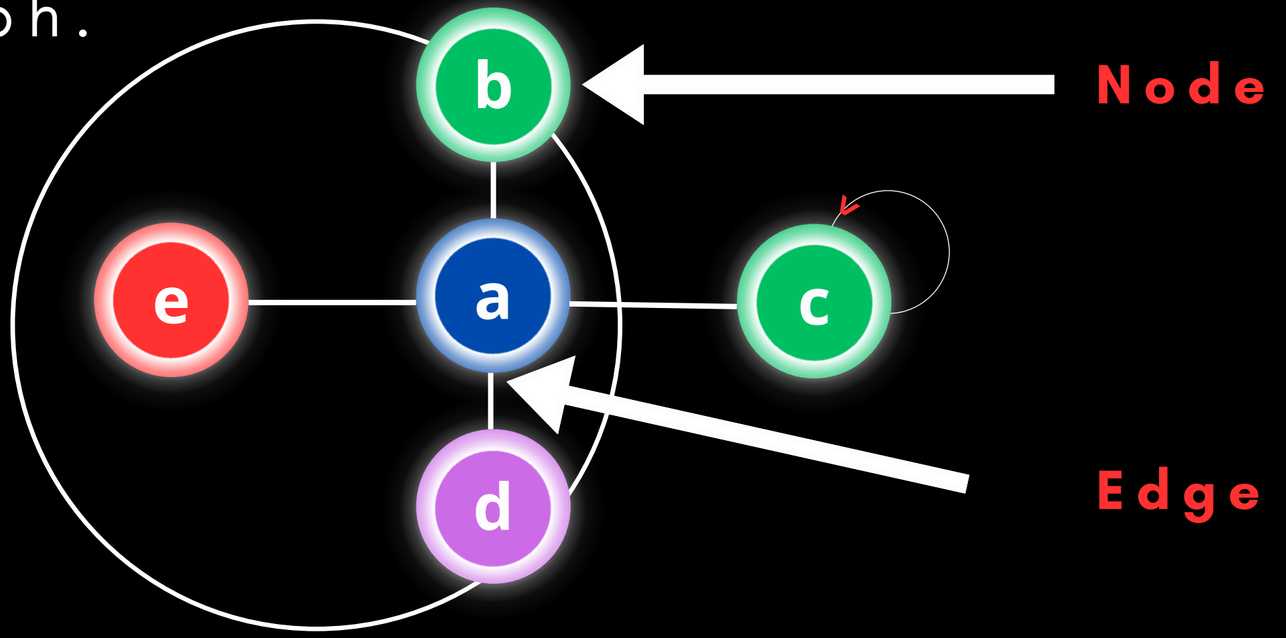
example

a train

NEXT

Graph

- A Graph is a non-linear data structure consisting of vertices and edges. The vertices are sometime also reffered to as nodes and the edges are lines or arcs that connect any two nodes in the graph.



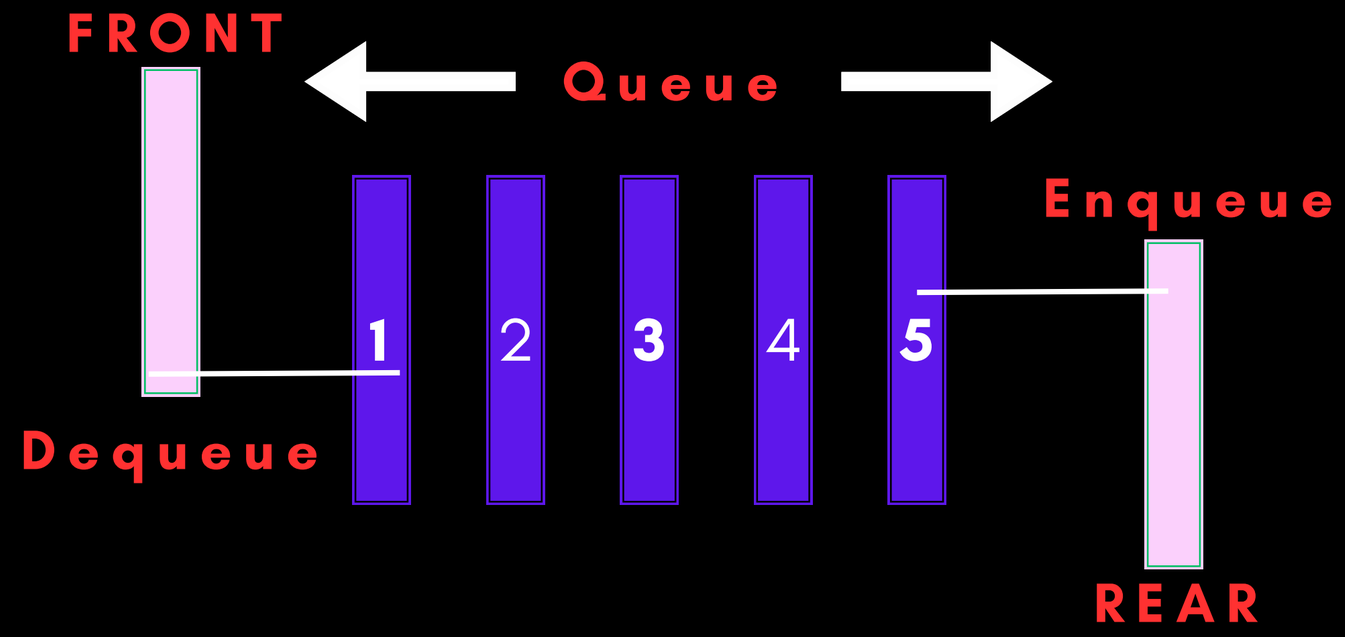
example

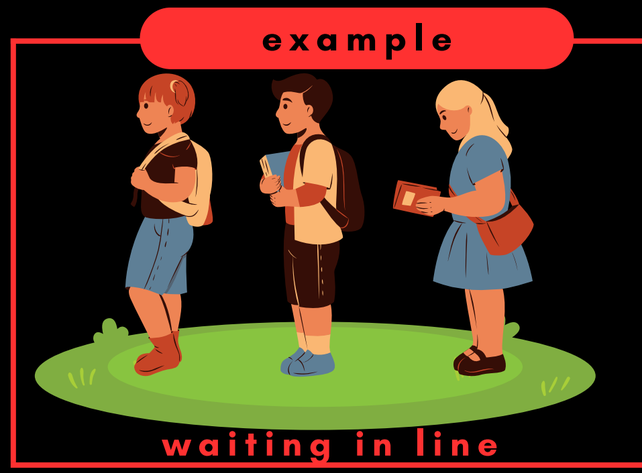
a spider web graph

NEXT

Queue

- A QUEUE is defined as a linear data structure which is open at both ends and the operations are performed in First In First Out (FIFO) order . The element which is first pushed into order , the operation is first performed on that .



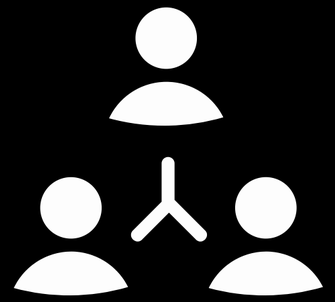


NEXT

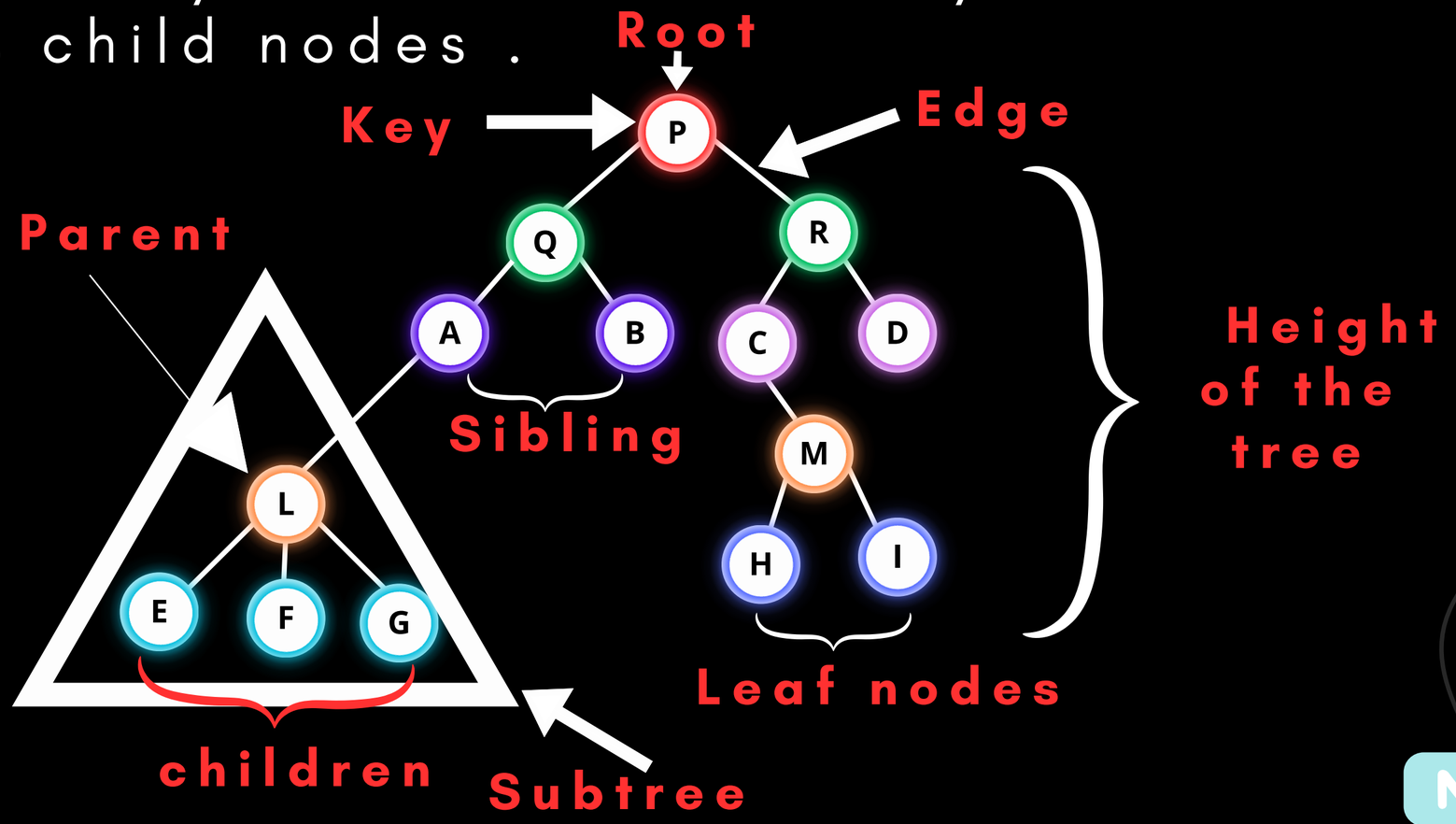
Tree

- A Tree is a non-linear hierarchical data structure that consists of nodes connected by edges. A node is an entity that contains a key or value and a pointer to its child nodes .

example



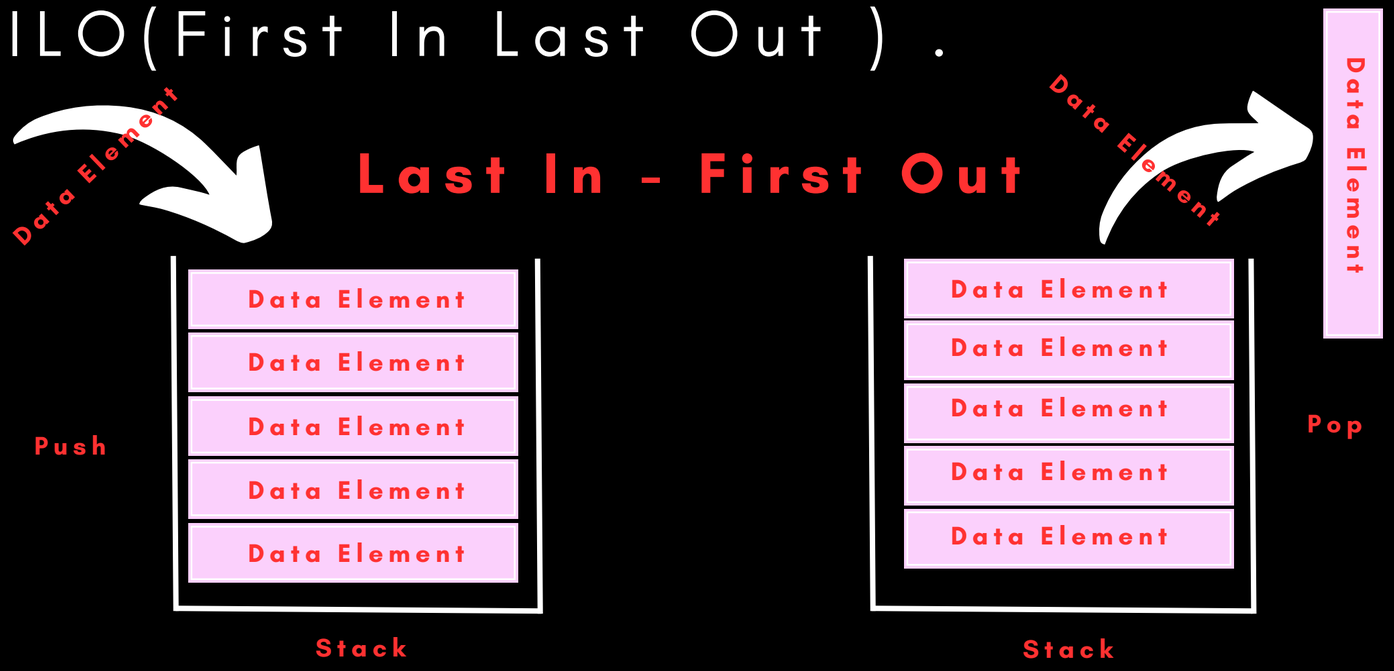
human tree



NEXT

Stack

- Stack is a linear data structure that follows a particular order in which the operations are performed. The order may be LIFO (Last in First Out) or FILO(First In Last Out) .



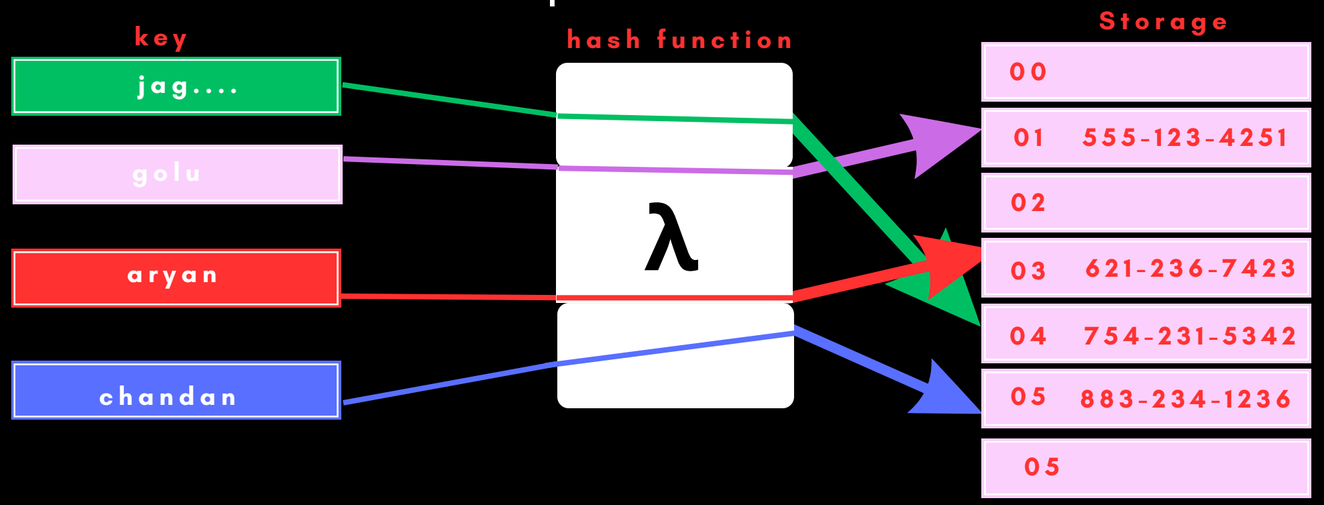
example

stack, add from top and reoved from top

NEXT

Hash Table

- Hash Table is a data structure tttt stores data in an associative manner. In a hash table , data is stored in an array format , where each data value has its own unique index value .



example

large collection

" our journey is endless"