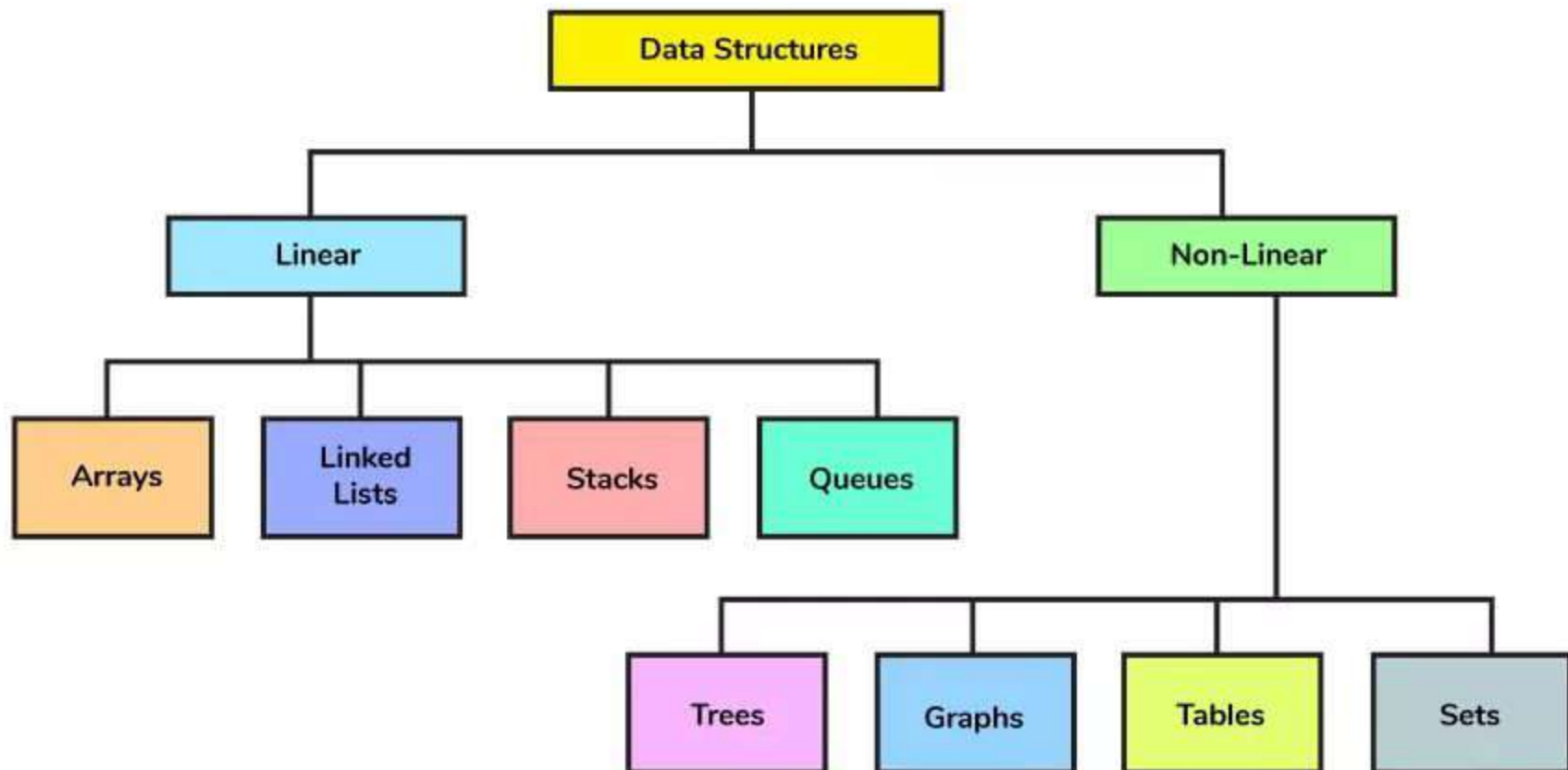


LEARN DATA STRUCTURES IN REAL-LIFE

@Aakash Kanojiya

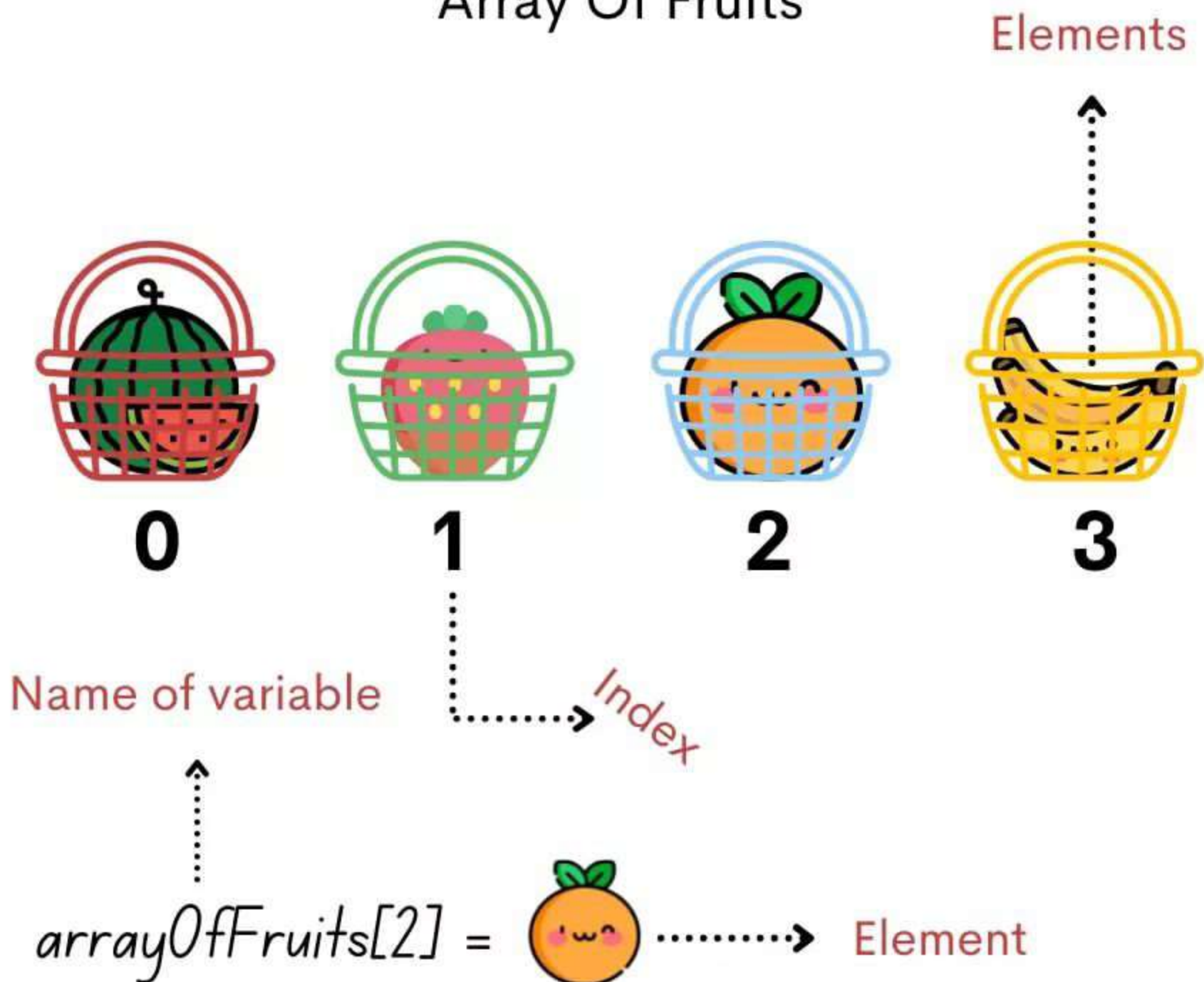




Data Structures are Different
Ways Of Organize Data In Memory

ARRAY

Array Of Fruits

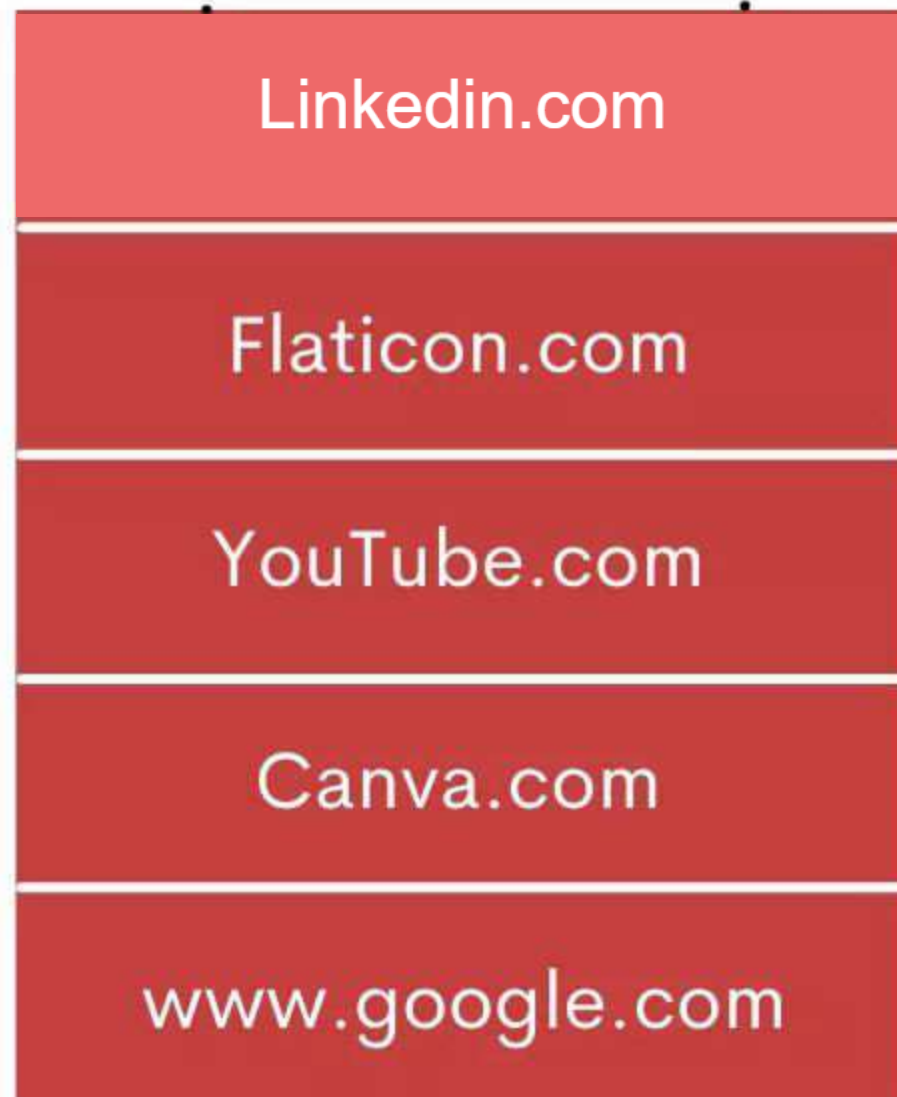


STACK

Stack Follows LIFO
(Last In First Out)

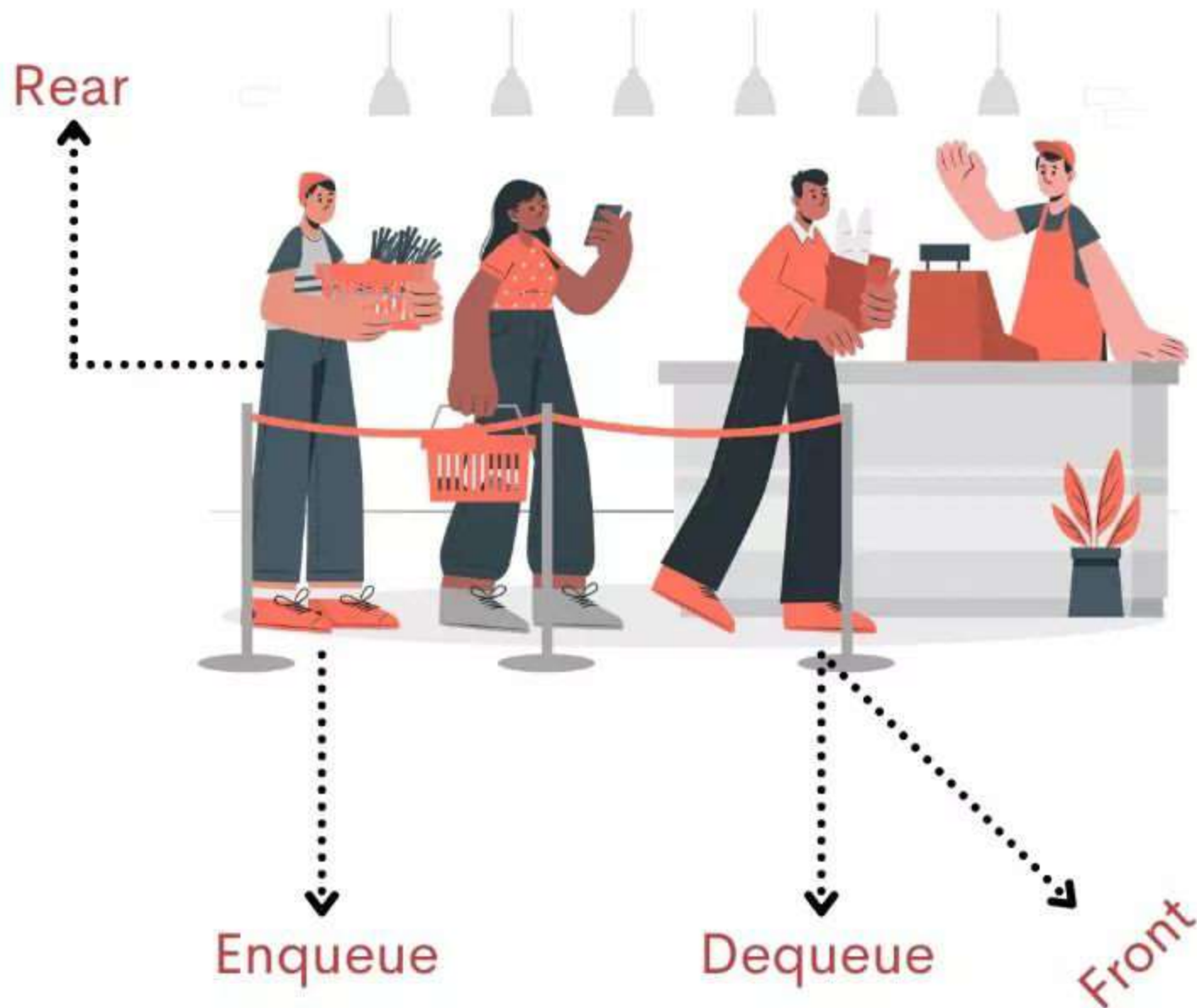
Push
(Inserting
element)

Pop
(Deleting
element)



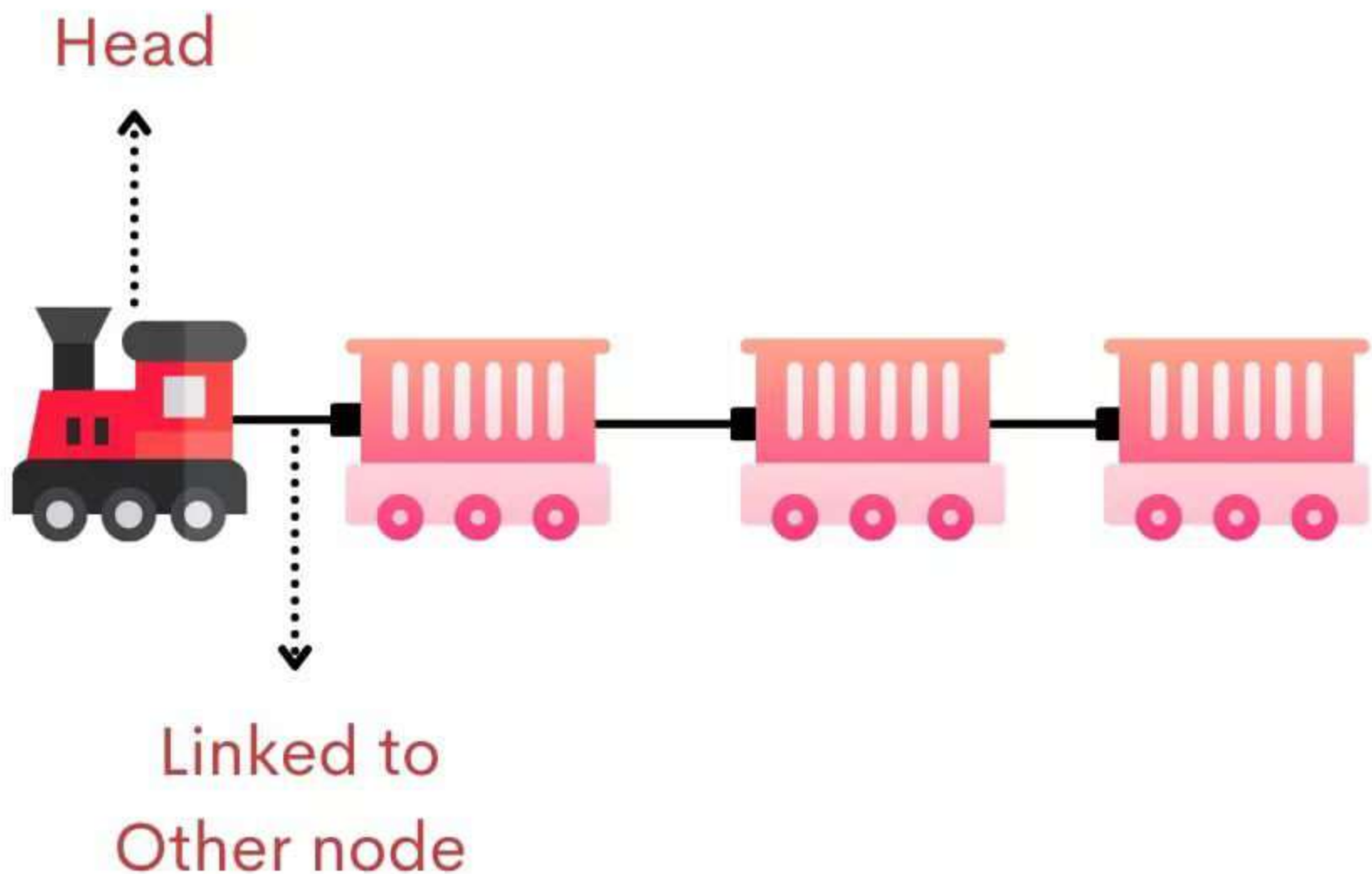
QUEUE

Follows FIFO
(FIRST IN FIRST OUT)



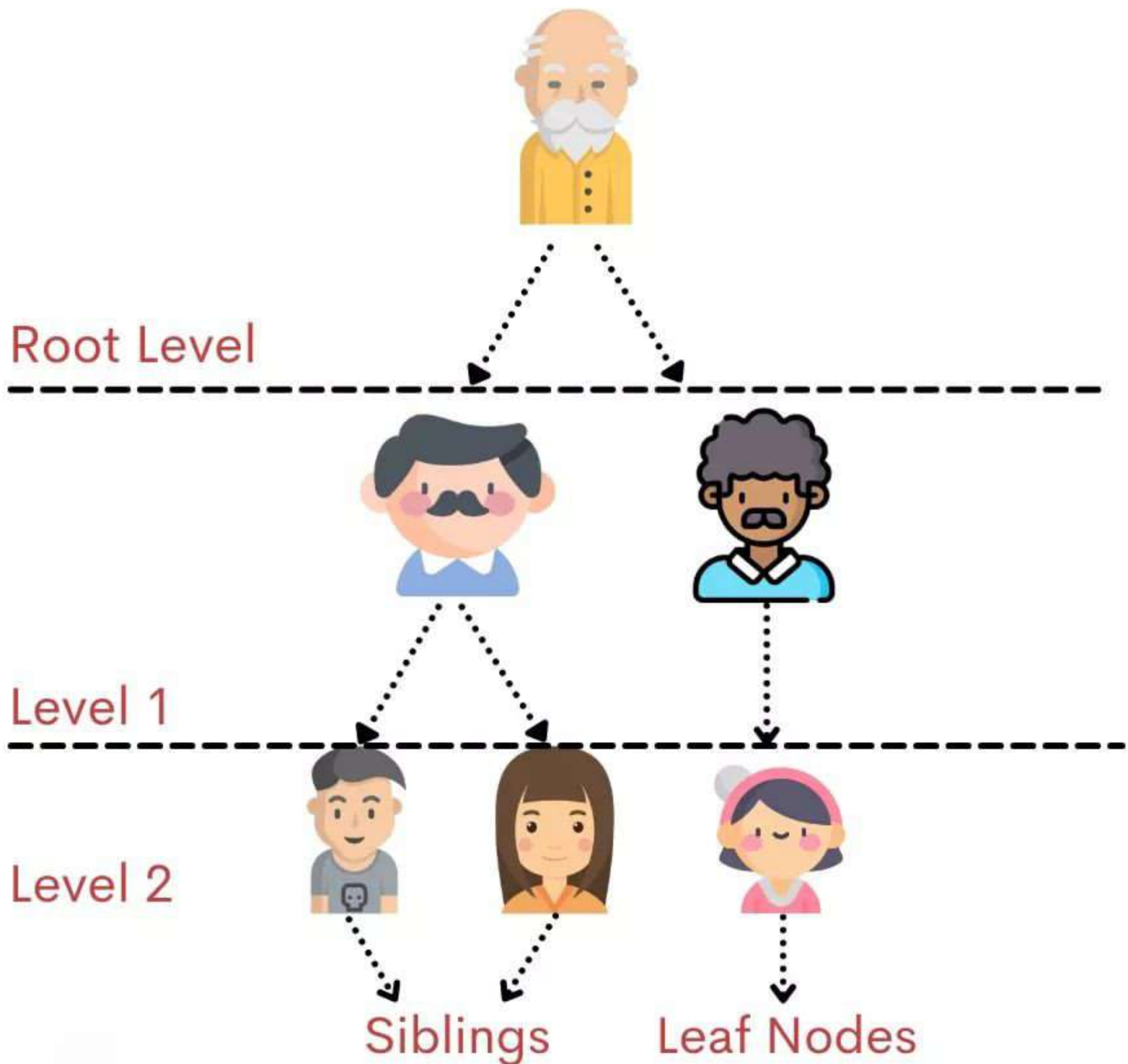
LINKED-LIST

TRAIN IS THE BEST EXAMPLE
OF LINKED LIST



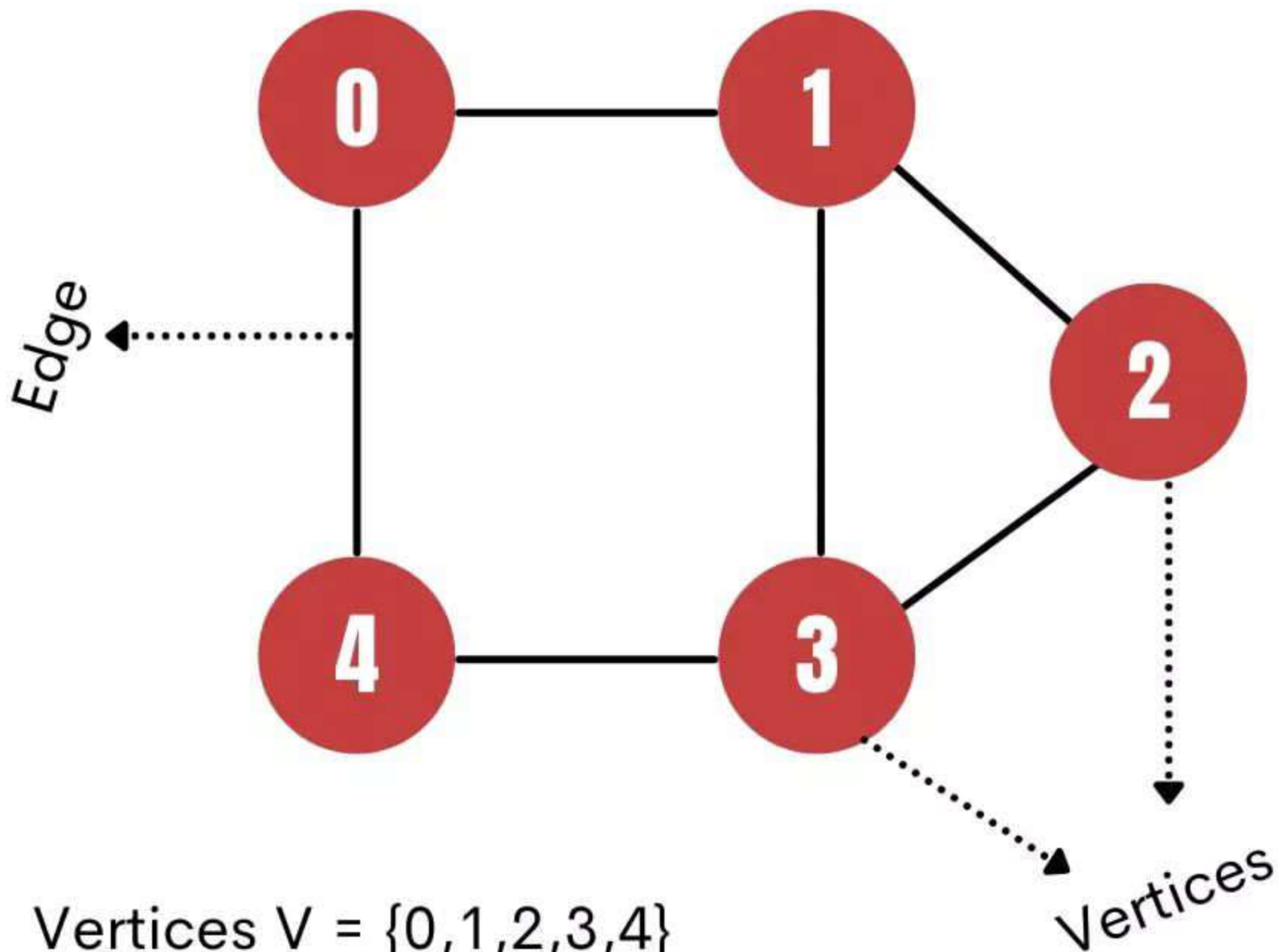
TREE

Family Tree



GRAPH

Graphs are used to represent networks



Vertices $V = \{0, 1, 2, 3, 4\}$

Edges $E = \{01, 12, 23, 34, 04, 13\}$

HASH TABLE

Key-value pair

