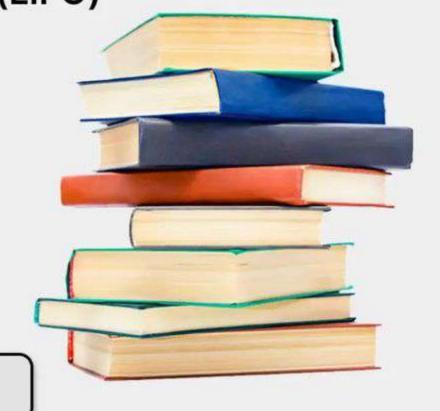
### **DSA in Real Life**



#### Stack

Stack is used to store the collection of obects. It is based on Last-In-First-Out(LIFO)

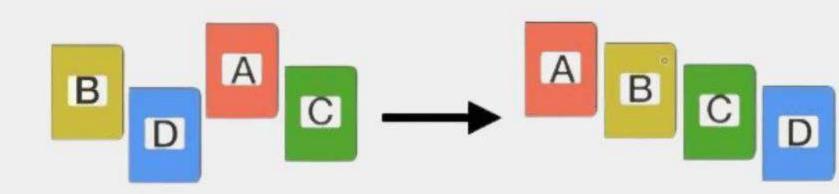


#### **Uses of Stack In Real Life**

- Undo operation is carried out through stack
- History of visited sites and call logs
- Photos in Gallery
- Youtube download Videos
- Notfications and E-mails

# Sorting Algorithm

Algorithm that sorts arrays of data

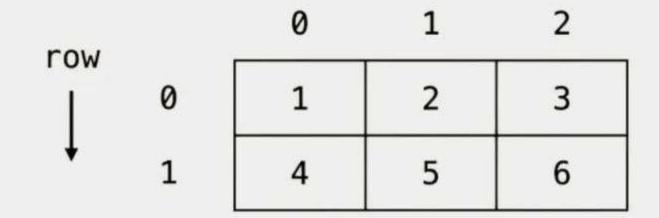


**Uses of Sorting Algorithm In Real Life** 

- Contact list on the Phone arrange A to Z
- Online shopping to sort price in different range.
  Example: Amazon and Flipkart
- Arrange words in Dictionary A to Z
- In Photo gallery you can sort images by size and date

### Arrays

An array is a collection of similar type of elements which have a contiguous memory location

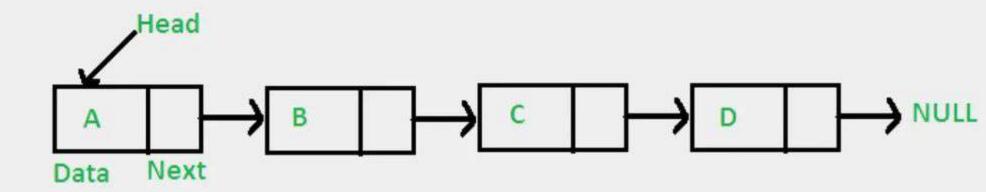


#### **Uses of Array In Real Life**

- 2D arrays are used in image Processing
- Your Viewing screen is also an multi dimensional arrays of pixels
- Online Movie Ticket booking (seats is arranged by rows and columns)

# Linked List

Linked List is a linear data structure which connect element called node

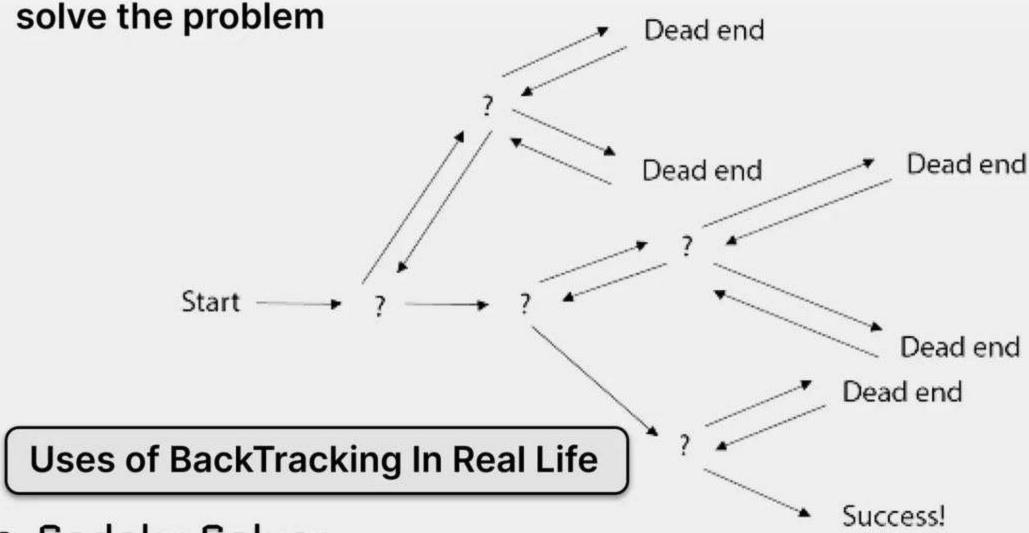


#### **Uses of Linked List In Real Life**

- Web pages can be access thr previous and next URL using the back and forward button
- The music player also use the same technique to switch between songs
- Image viewer software uses a linked list to view the previous and the next image using the previous and next buttons

### BackTracking

Backtracking is one of the techniques that can be used to



- Sodoku Solver
- To solve problem of the N Queens
- To solve the problem of the Maze
- To solve the love problem of Knight's Tour Problem
- 2048 game