

# Lecture # 7

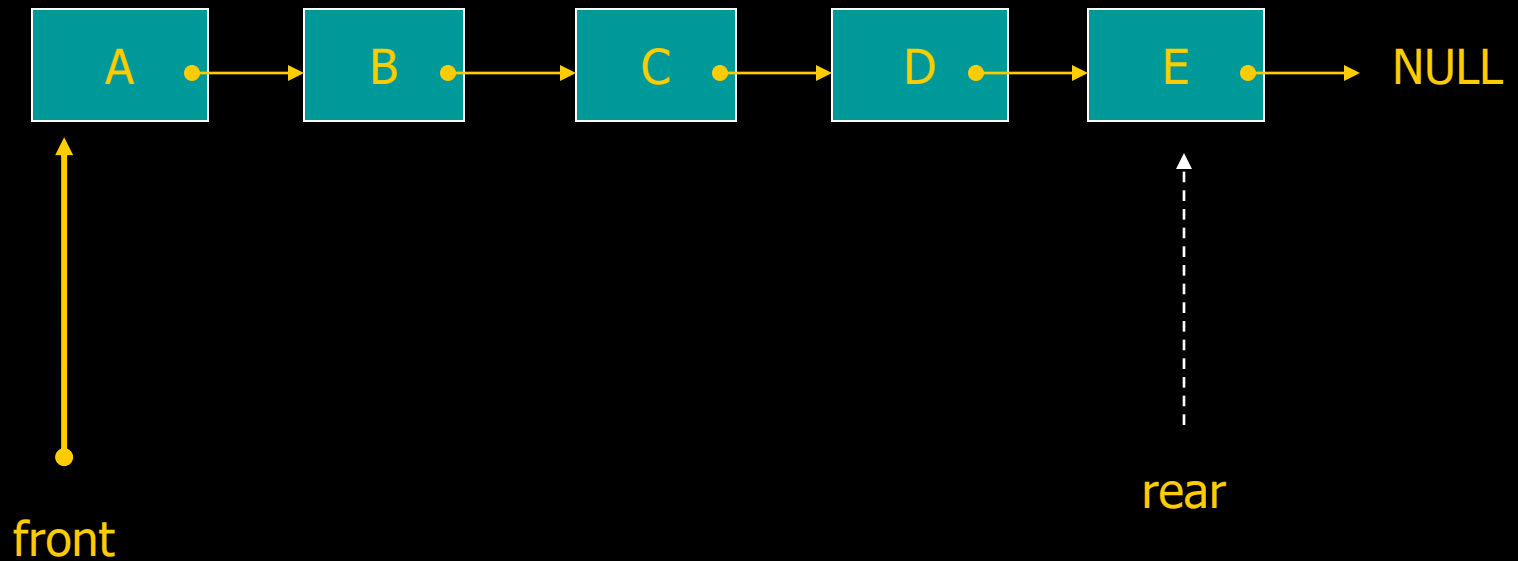
# Uses of Stack

Problem:

Parenthesis Matching

# Queue

## ■ Figure showing Queue.....



- In a **queue**, the element **deleted** from the list is the one which **inserted** first.
- **Queue** is also referred as **First-in First-out** i.e **FIFO**.
- The **example** of queue is the **queue of people** standing for submitting their bills in the bank. The one who joins the queue **first** also leaves the queue **first** . Similarly who joins the queue at **last**, leaves the queue at **last**.

- If an **empty** queue is deleted, we say queue **underflows** and
- If rear of the queue exceeds **n**, the queue **overflows**.
- Insertion to queue is called **Enqueue** and deletion from queue is called **Dequeue**.

- Implementation on board - Discussion

*Thank You.....*