Name: Hina zahra | Roll No: 14



A hospital needs to manage ER patients efficiently using a queue system that handles:

- Critical patients added at beginning
- Normal patients added at end
- Insert at specific positions
- Remove from beginning after treatment



## **Data Structure: Doubly Linked List**

Each node has: Patient ID, prev pointer, next pointer

**Why?** Easy insertion/deletion from both ends and traversal in both directions.











