

# Dynamic Data Management:& Exploration of Linked Lists

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## Problem Statement :

Design a flexible ER queue system using a doubly linked list to manage patients based on priority. The system must support insertion at beginning, end, specific position, and deletion from beginning.

## Proposed Solution

Implement a doubly linked list where each node represents a patient. Operations update head, tail, prev, and next pointers accordingly. Edge cases like empty list and out-of-bound positions are handled gracefully.

