ER Queue Management System

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Problem Statement

A hospital needs a system to efficiently manage ar amace (ER) cueige queue, where patient priority can quickly. The goal is implenents to a flexible structure tefuctias to add, remoe, to remove, or repoistinion patients dynamicly.

Proposed Solution

The ER Quue System is implemented using a Doubly Lirat in C:++:
Each node represents a patient and patieint a previous and next patient.

The ER Quue System is implenents a Doubly aoubly Linkeut and stores:

1. patientID, End, 2. Pointer to previous and The system tiis the folowing operations:
1. insertAtBeginning(patientID).
2. insertAtEnd, 2) insertAtpstientID),
3. insertAtPosition(patieID), pos).
4. deleteFrom Beginning().

Graphical Representation of Linked List After Performing Each Step