

TITLE:
**Hospital Emergency
Queue System**

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PROGRAM:BS AI

PROBLEM STATEMENT:

A small hospital is managing patients in the Emergency Room (ER). Because patient priority can change quickly (new critical patients arrive, discharged patients leave, etc.), the hospital wants a flexible system to keep track of the current patients in the ER.

SOLUTION:

**insertAtEnd()...for stable patients
insertAtBeginning() ..for critical
patient insertAtPosition().. for patients
are not too critical
deleteFromBeginning()..critical patient
discharged**

GRAPHICAL REPRESENTATION

STEP 1 :Insert at the end(101)

101

STEP 2 :Insert at the end(102)

101



102

STEP 3:Insert at begining(200)

200



101



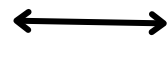
102

STEP 4:Insert at position(150,2)

200



150

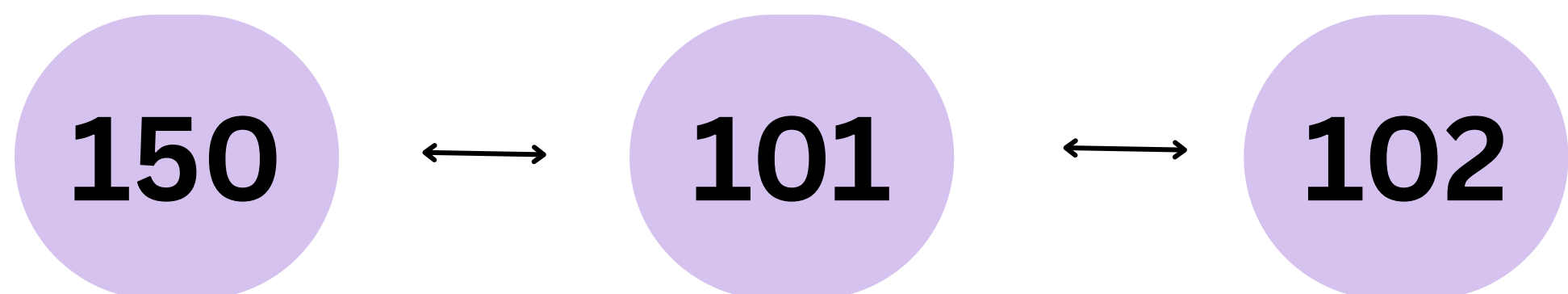


101



102

STEP 5: delete from beginning



STEP 6: Insert at the end(300)

