*	
Dat	"DRY RUN"
	NAME: - TALHA RASHID
	TETLE: Emergency Room Overe Management System
1.	insertAt End (101)
	Head -> [101] <- Tail
	(prev=null) <-> [101] <-> (next=null)
	Representation:
	HEAD: patientID = 101, prev = NULL, next = NULL
	insert Atend (102)
	Head -> [101] 2-> [102] 2- Tail
	[101]. prev = NULL [101]. next->[102]
3	[102]. prev-> [101], [102]. next = NULL
3.	1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-
3.	insert At Begining (200) Head -> [200] 2-> [101] 2-> [102] 2-Tail
	[200] · prev = NULL [200] - next -> [101]
	[101]. prev >[200], [101]. next > [102]
	Lion blee Sea 21
4.	InsutAt Position (150,2)
	Position is 2 (1-based), so insert 1st node lafter
	200), before 2nd node
	Head -> [200] 2-> [150] 2-> [102] <- Tail
*	* * * * * * * * * * * * * * * * * * *

* *	****	* *
		* *
Date	2.	* +
	Pointers updated	*
		*
	· new [150]. prev >[200] · new [150]. next->[101]	*
	· new[Iso].next->[lol]	1
	· [200] · next -> [150]	7
	· [101] · prev -> [150]	7
5.	Delete From Begning ()	1
	Remove head . node (100). Head -> [150] <-> [101] <-> [102] <- Tail	
-	Pointers:	
	· new head is [150], [150] · prev = NULL	
,	T . O. F 1 (3 an)	
6.	Insert At End (300) Head -> [150] 2-> [101] 2-> [102] 2-> [300] 2-74	ان
	Head -> 110 1 Closed	
	Final pointers consistent	
	· head = node with patient ID (prev = NULL) · tail = node with potient ID (next = NULL)	
	· tail = node with patient ID (next=NULL)	
-	After Step 6 answers:	
	(a) Head patient ID:	
		30
-	(d) Backward traversal (tail-shead): 300-> 102->101	-)
	(d) Dackward Harry	1

OUTPUT AFTER PERFORMING OPREATIONS

D:\Practice codes\Hospital Patient Queue\Hospital Patient Queue.exe

```
=== Emergency Room Queue Management System ===
Normal patient 101 added to the end of the queue.
Normal patient 102 added to the end of the queue.
Critical patient 200 added to the front of the queue.
Patient 150 inserted at position 2.
Patient 200 has been treated and removed from the queue.
Normal patient 300 added to the end of the queue.

After operations:
HEAD -> [150] <-> [101] <-> [102] <-> [300] <- TAIL
```