Queues→

- 1. A queue is a data structure that follows the principle of FIFO(First In First Out).
- 2. There are two ends in a queue →FRONT and REAR.
- 3. An element is always removed from the Front.
- 4. A new element is always inserted from rear.

Algorithm for inserting an element in a queue→

If(FRONT=1 and REAR=N) or (FRONT=REAR+1),then
 Write: Queue is overflow error
 Return
 [end of if]
 If(FRONT=NULL and REAR=NULL),then
 Set FRONT:=REAR:=1
 IF REAR=N,then
 Set REAR:=1
 Else
 Set REAR:=REAR+1
[END OF IF]

Algorithm for deleting an element from a queue→

- 1. If FRONT=Null,then
- 2. Write: Queue underflow error
- 3. Return
- 4.[End Of IF]

[END OF IF]

- 5.Set Val:= QUEUE[FRONT]
- 6. If FRONT=REAR, then
- 7. Set FRONT:=REAR:=0[NOW QUEUE IS EMPTY]
- 8.ELSE
- 9. IF FRONT=N then
- 10. Set FRONT:=1
- 11. Else
- 12. Set Front:=Front+1
- 13.[End of If]
- 14.[End of If]
- 15.Return



