

INSERT

Insert ():

Description: Here **QUEUE** is an array with **N** locations. **FRONT** and **REAR** points to the front and rear of the **QUEUE**. **ITEM** is the value to be inserted.

1. If (REAR == N) Then [Check for overflow]
2. Print: Overflow
3. Else
4. If (FRONT and REAR == 0) Then [Check if QUEUE is empty]
 - (a) Set FRONT = 1
 - (b) Set REAR = 1
5. Else
6. Set REAR = REAR + 1 [Increment REAR by 1]
 [End of Step 4 If]
7. QUEUE[REAR] = ITEM
8. Print: ITEM inserted
 [End of Step 1 If]
9. Exit