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// Fig. 1 to check if the queue is full and inserting an element in queue.

// Fig. 2 to check if the queue is empty and deleting an element from the queue.

Step 1: IF REAR = MAX - 1

Print "OVERFLOW"

Go to Step 4.

[END OF IF]

Step 2: IF FRONT = -1 and REAR = -1

SET FRONT = REAR = 0

ELSE

SET REAR = REAR + 1

[END OF IF]

Step 3: SET QUEUE[REAR] = NUM.

Step 4: EXIT.

Fig 1:

Step 1: IF FRONT = -1 or FRONT > REAR.

Print "UNDERFLOW"

ELSE

SET VAL = QUEUE[FRONT]

SET FRONT = FRONT + 1

[END OF IF]

Step 2: EXIT,