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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.
// Fig 3. Displays the elements.

```
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 "UNDER FLOW"
        ELSE
            SET VAL = QUEUE [FRONT]
            SET FRONT = FRONT + 1
        [END OF IF].
Step 2: EXIT.
```

Fig : 2

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Step 1:- IF FRONT == -1 (|| FRONT > rear)
Print " QUEUE IS EMPTY".
[END OF IF]
ELSE

Step 2:- FOR I = FRONT ; "
I <= REAR.
Print " QUEUE[I]"
I ++.

Step 3:- END

Fig : 3.