

LAB-4

ENQUEUE: QUEUE, ELE, SIZE,
FRONT, REAR = -1.

- 1) IF REAR = FRONT + (SIZE - 1)
- 2) PRINT "Queue Overflow."
- 3) ELSE
- 4) IF REAR = -1.
FRONT = 0.
END OF IF.
- 5) REAR = REAR + 1.
- 6) QUEUE[REAR] = ELE.
- 7) END OF IF.
- 8) END.

DEQUEUE: QUEUE, FRONT, REAR

- 1) IF FRONT > REAR OR REAR = -1.
PRINT "QUEUE UNDEFLOW",
- 2) ELSE
PRINT "Removed front element."
FRONT++.
- 3) END OF IF.
- 4) END.

DISPLAY: QUEUE, FRONT, REAR, ~~REAR~~
N = FRONT.

- 1) IF FRONT < 0
PRINT "EMPTY QUEUE."
- 2) ELSE
- 3) FOR N = ~~FRONT~~ FRONT TO REAR.
PRINT QUEUE[N].
- 4) END OF FOR.

5) END OF IF.
6) END.