INSERTION

INPUT DATA

Tail \leftarrow Tail + 1

INSERT.

DELETION

X:1

Head \leftarrow Head + 1

X = DATA

EXCEPTION (UNDERFLOW)EXCEPTION: OVERFLOWIF Head = NULL AND
Tail = ToQ

ELSE

INPUT DATA

Tail \leftarrow Tail + 1

IF Tail > ToQ

THEN

Tail \leftarrow 1

ENDIF

INSERT

ENDIF.

X:1

IF Head = Tail

THEN

OUTPUT "Error - Underflow"

END.

ENDIF

CIRCULAR Q:ADD - Q

INPUT DATA

IF Head = NULL AND Tail = ToQ

THEN

OUTPUT "Error - Overflow"

END.

ELSE

Tail = Tail + 1

IF Tail > ToQ THEN Tail = 0

INSERT DATA AT Tail

ENDIF

DELETE - Q

IF Head = Tail

THEN

OUTPUT "Error - Underflow"

END

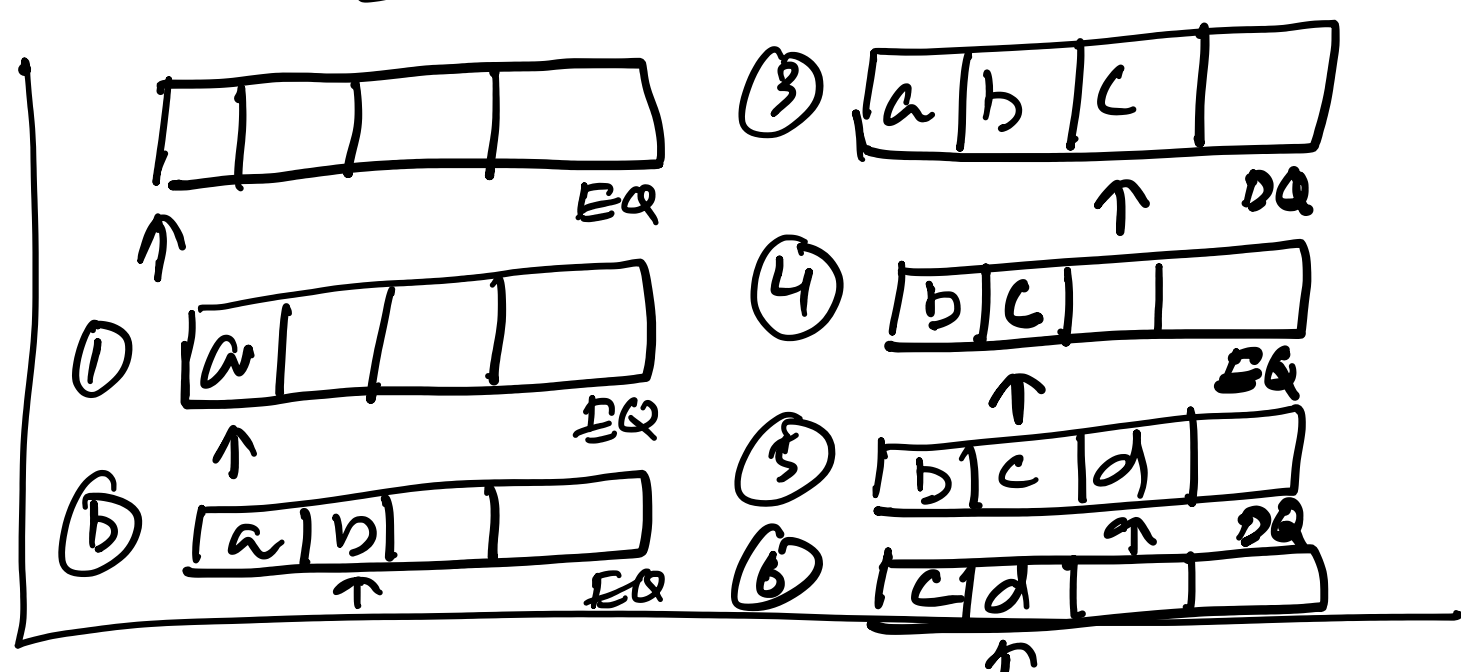
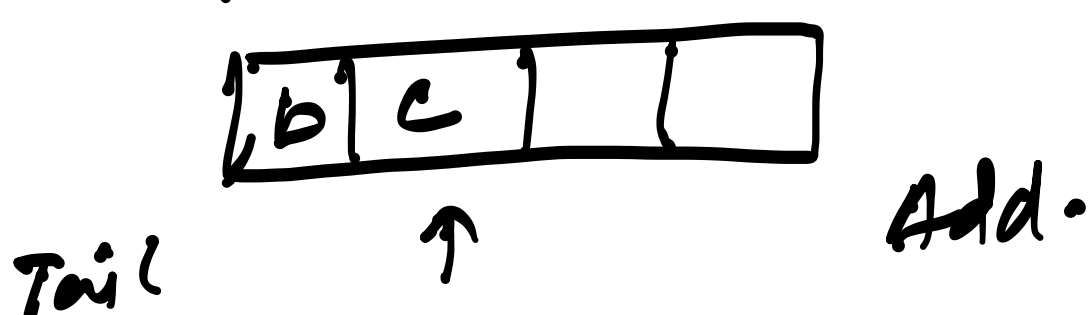
ELSE

Head \leftarrow Head + 1

IF Head > ToQ THEN Head = 0

X = DATA AT Head.

ENDIF.

SIMPLE QDELETE - Q

IF Tail = NULL

THEN

OUTPUT "Error - Underflow"

END

ELSE

X = DATA AT 0 position

FOR C = 0 TO Tail

QUEUE[C] = QUEUE[C+1]

Next C

Tail \leftarrow Tail - 1

ENDIF

ADD - Q

INPUT DATA

IF Tail = ToQ

THEN

OUTPUT "Error - Overflow"

END

ELSE

Tail \leftarrow Tail + 1

INSERT AT Tail

ENDIF.