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4AL19CS035

Algorithm

Step 1: Start

Step 2: void insert(void)

Step 3: void delete(void)

Step 4: void display(void)

Step 5: rear = -1

Step 6: front = -1

Step 7: Display Enter the size of the queue

Input n

Step 8: Display Queue operations using array

Step 9: Display 1. ENQUEUE 2. DEQUEUE 3. DISPLAY 4. EXIT

Step 10: do

Display Enter your choice

Input choice

switch(choice)

Case 1: insert()

break

Case 2: delete()

break

Case 3: display()

break

Case 4: EXIT point

break

default: Display please Enter a valid choice(1/2/3/4)

while(choice != 4)

return 0

Step 11: Stop

void insert()

Step 1: Entry

Step 2: If (rear == MAX - 1)

Display QUEUE overflow

else

If (front == -1)

front = 0

Display Insert the Element in Queue

Input Item

rear = rear + 1

Queue[rear] = Item

Step 3: End

void delete()

Step 1: Entry

Step 2: If (front == -1 || front > rear)

Display Queue underflow

return

else

Display Element deleted from Queue

output Queue[front]

front = front + 1

Step 3: End

void display()

Step 1: Empty

Step 2: if (front == -1)

Display Queue is Empty

Else

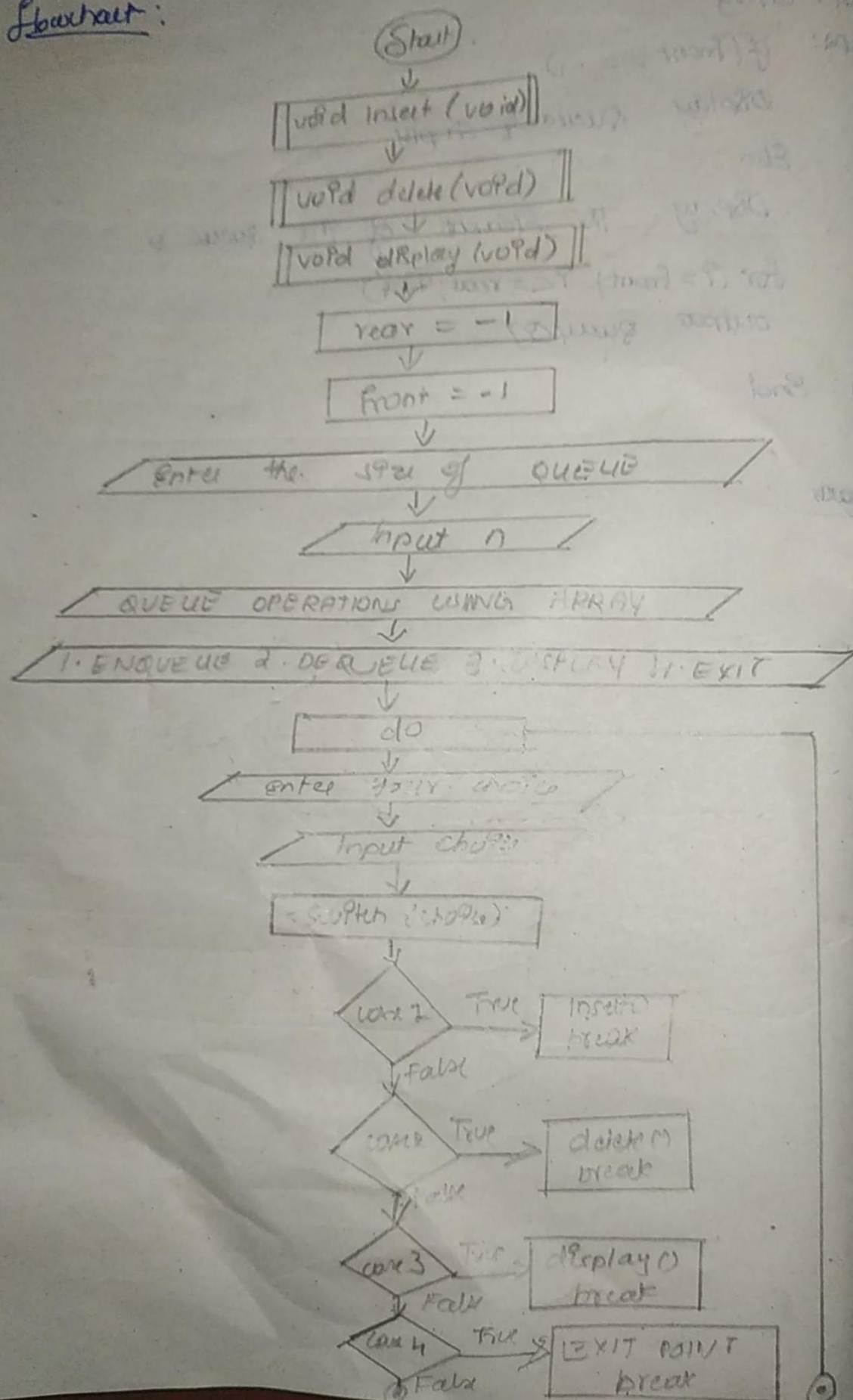
Display The Elements of the Queue &

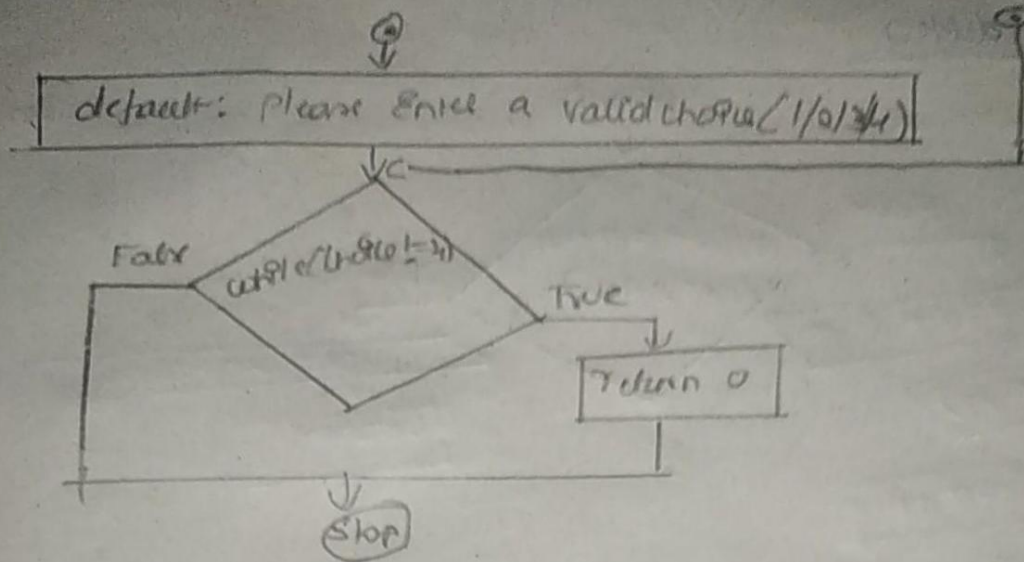
for ($i = \text{front}$; $i \leq \text{rear}$; $i++$)

output $\text{queue}[i]$

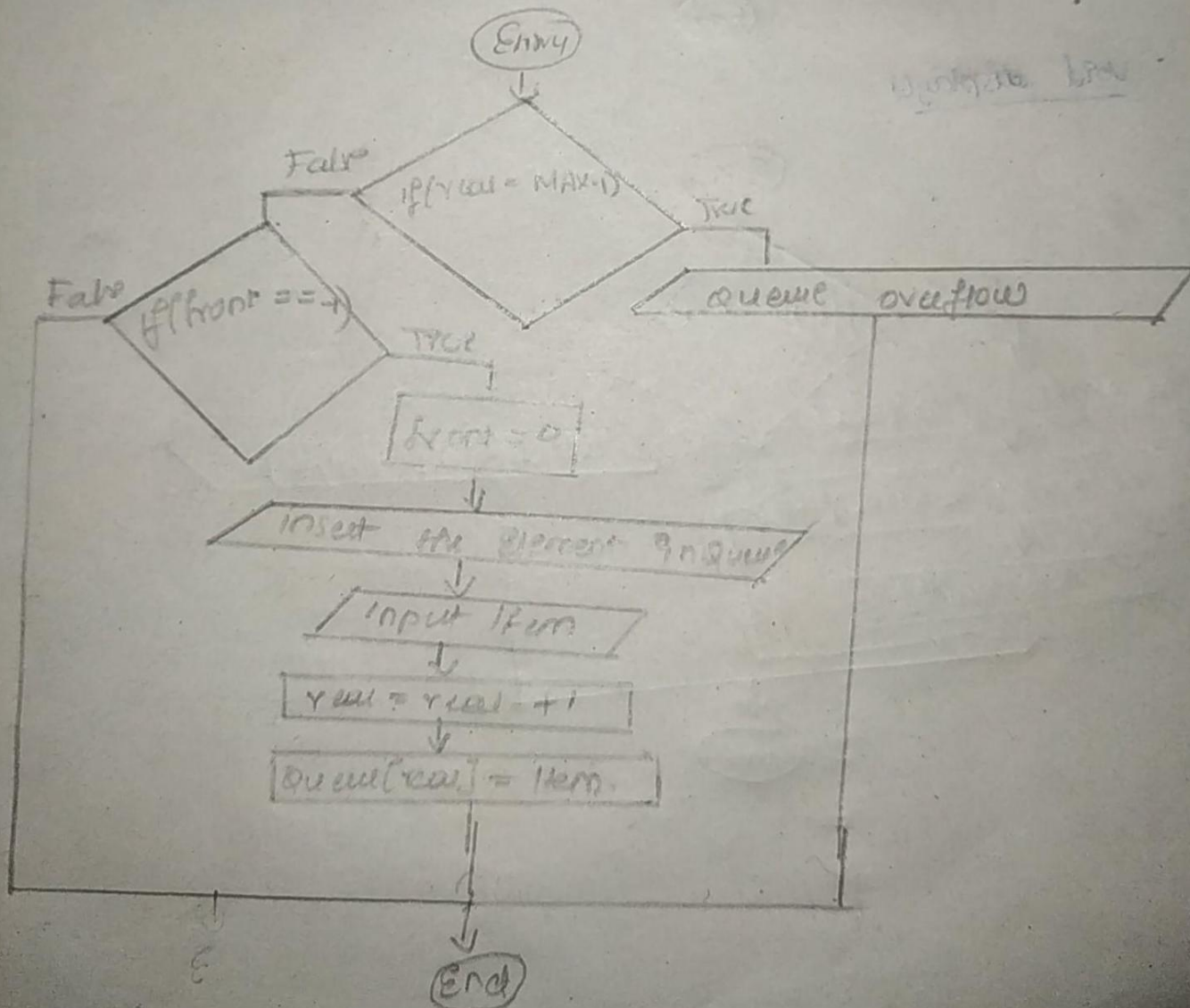
Step 3: End

Flowchart:

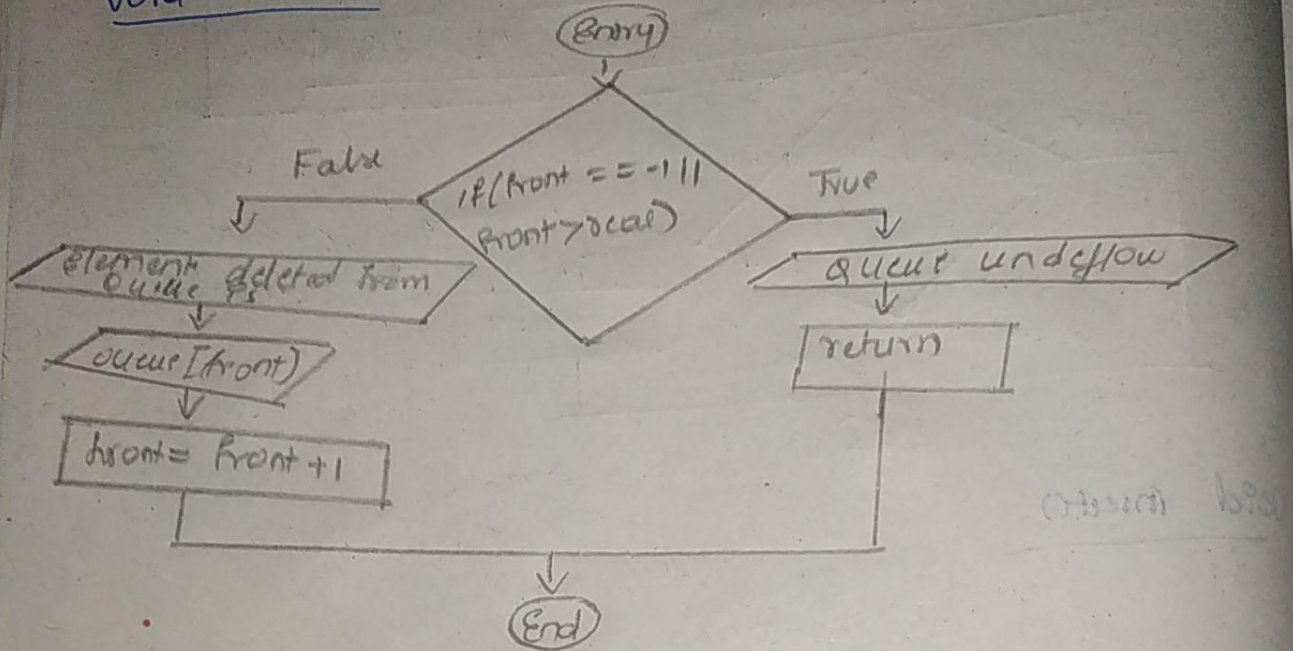




void insert()



void delete()



void display()

