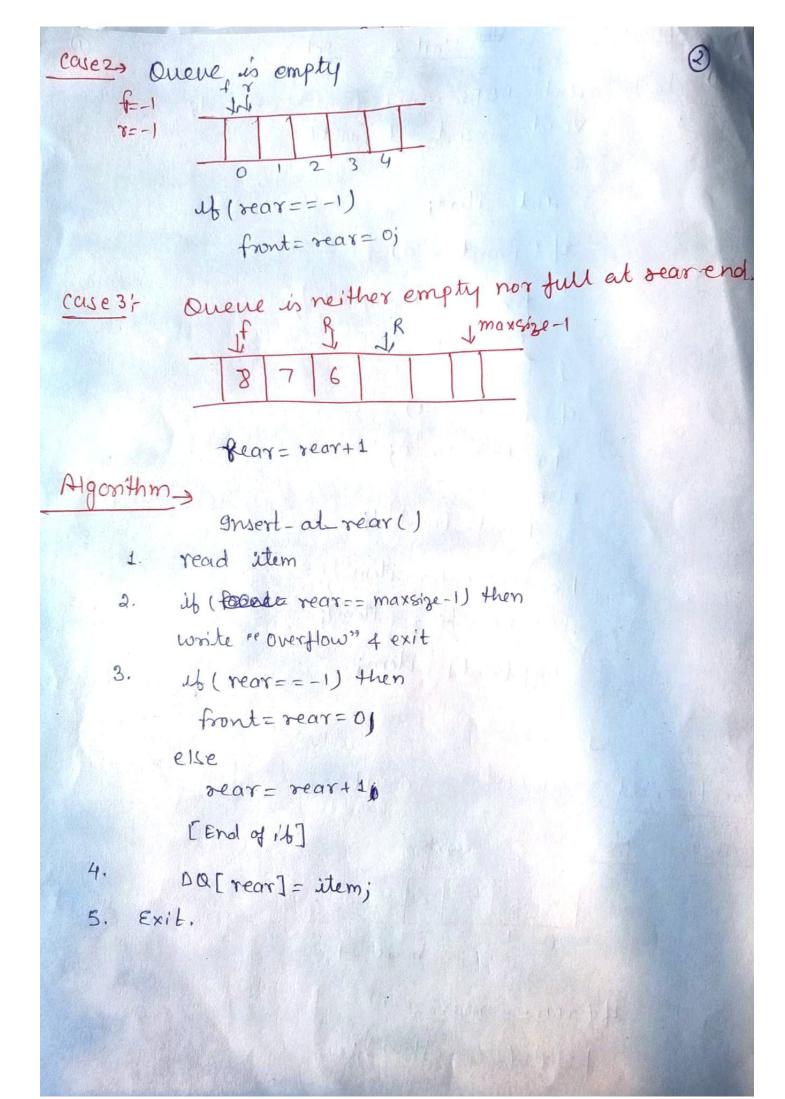
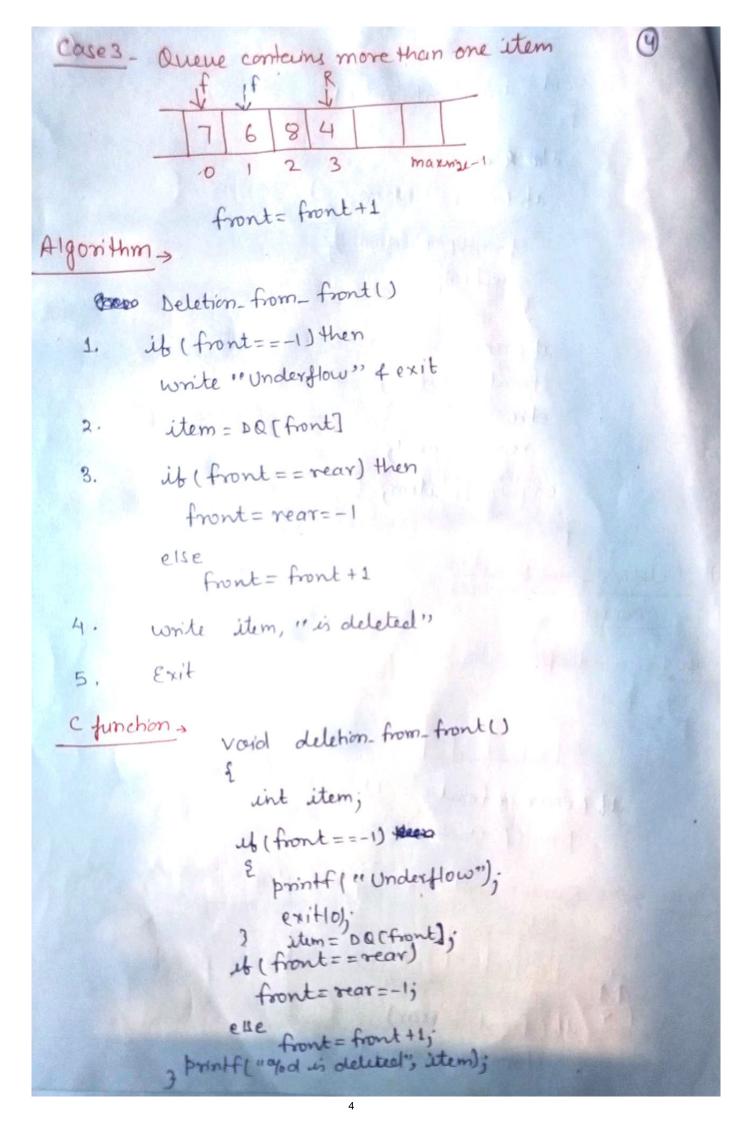
Preideeppant Unit-2 # define maxsize 30 c function > int Da[maxsize], front=-1, rear=-1; void insert\_al-front() int item; if (front == 0) printf (" overflow"); exit(0); if (front = = -1) front = sear = o; livery else front=front-1; printf("Enter item"), scanf(" ofod"; fitem); Da[front] = item; 2) Insertion at rear end - concept cases overflow-f (ash, [my/] 1) maxsize-1 If ( rear = = maxsize-1) printf ("overflow");

1



9 functions void insert\_at\_rear() Max Boat ub (rear == maxsize-1) { promft( econerflow "), 3 exit(o); College Hard British Cars if ( rear = -1) front = rear = 0; else rear = reartly DO[near] = item; Deletion from front-3) the believe in the sky of concept > Case 1 s underflow 7=-1 read multiple, him uf (rear or front = = -1) printf("underflow"); Queue contains only one item case 2file. it (front == rear) front = rear = -1



A elehon from rears most a laboration bear concept case 1 > Underflow 9=-1 uf (rear == -1) printf(" underflow"), case 2 > Queue contours only one item et (front == rear) front= rear=-1 Queue contains and more than one item case 3: rear = rear -1 Algorithm > Deletion- from-rear () 1. 16 (rear = = -1) then write " Underflow" & exit. item= DQ[rear] it (front = = rear) then front = rear = -1 9219 rear = rear-1 [ End of 4] write item " is deleted" Exit.

c function void deletion-from-rear () int item; ut (rear = = 1000 -1) & printf(" Underflow"), exit(0), item = DO[rear]; ib (front = = rear) front=rear=-1; rear = rear -1; uprintf [ or ofod is deleted"; item). 5) Traverse, concept case 1: Queue is empty ut (front == -1) printf ("Onene is empty"), case 2: Queue is not empty for (i=front; i<= rear; i++) printf ( er alod", DO[1]);

## Algorithm > 3. 4.

traverse () of (front == -1) then posiotife onesse write "Onene is empty"

set i= front

repeat step 445 while (ix=rear)

write DO[1]

set 1= 1+1 5. [ End of Loop]

Exit

## c function >

void traverse () unt ig 4 ( front == -1) 2 printf(" Onene is empty"); 3 exit(0);

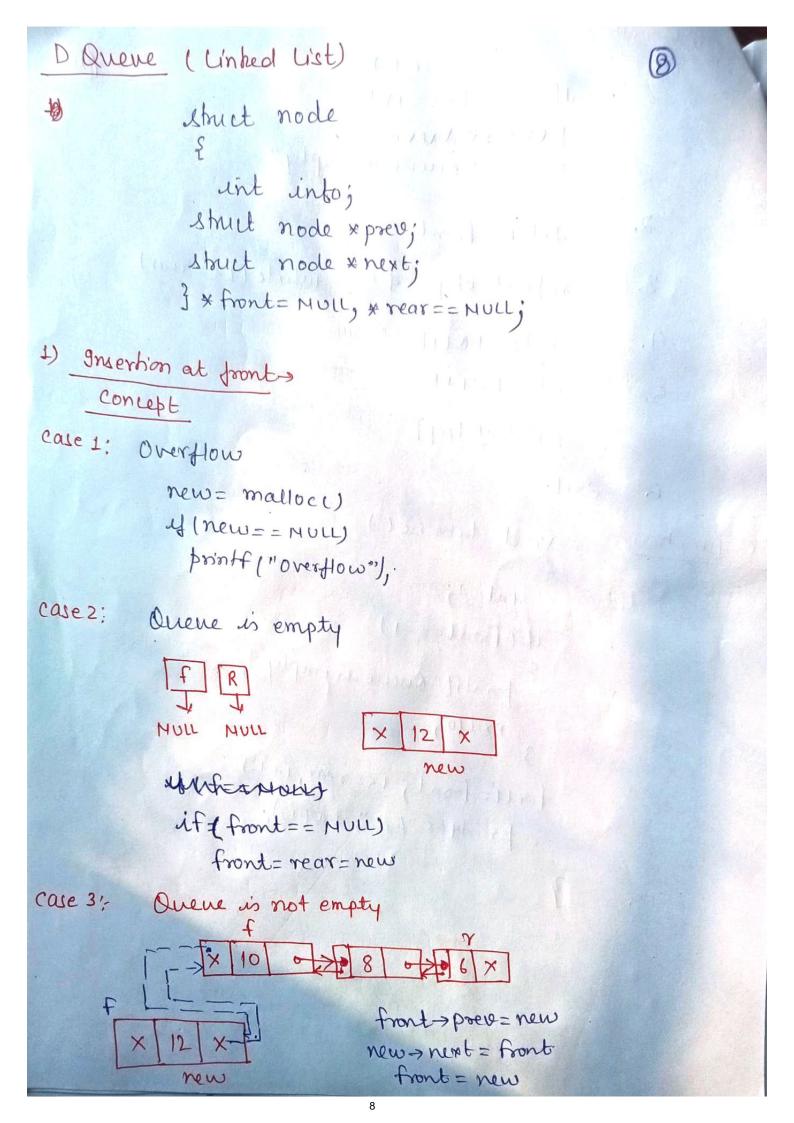
for li=front; i'= rear; i'++) printf(" dod ", DOC(1)). Chief Crows (F.C.)

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```
Algorithm >
          Insert-ab-front ()
     1.
         new = AVAIL
         if (new = = MULL) then ( ) william to the
     2.
           workte "overflow" 4 exit
          INFO[new] = item
     3.
           LINKH [ New] = MULL
     4.
           LIMKP [ New] = MULL !!
    5.
           ub ( Front = = NULL) then
     6.
            front = rear = new / 100 / 100
           PLLE
         LINKA [front] = new
           LIMKN [ new] = front
              Front = new
        Exit
c function >
            Noid insert-at-front()
                              MARINE SOLVER STORY
              struct node * new;
             new= (struct node *) malloc(sogey (struct node));
             printf(" Enter node into");
             scanf ( " ofod", Inelo > info);
               new > prev= MULL;
               new > next = Mullj
              of (Front = = MULL)
                front = rear = new;
                   wire Internation
               2 front -> pre o= new
                 new-> next = front
               3 front=new
```

```
Insertion at end rear-
  concept-
Lase 1: Overflow
         new = malloc ()
         of ( new == NULL)
          pointf("Overflow"),
      Cos Queue is empty
case 2:
          uf (rear == HULL)
           front = rear = new hor ( )
      Queue is not empty
case 3!
                    rear will floor by med
  front
     rear->next= new new new
    new- prev = rear
   rear = new
           9nsert-at-rear()
Algorithm.
          new= AVAIL
       2. If (new=== Nive) then
           write e overflogs" & exit.
         ut (rear = Note) then.
           front = rear & new
          else
             MINKN [rear] = new
              KINEP[new] = rear
                rear= new
```

Gon'Him > gnoert-ab-beg() 1. new = AVAIL 2. if (new == MULL) then write "overflow" of exit 3. INFO[new] = item LIMKM [new] = MULL H. LINEP [new] = MULL 2 No (rear = = MULL) then 6. front = rear = new Leaven of the else rew → prev = rear new-7. Exit void insert\_at\_beg() C functionstreet node \*new; if (new = = MULL)

struct node \*new;

struct node \*new;

new= (struct node \*) malloc(-meg(struct node));

of (new== NULL)

printf("overflow");

exitio);

scarf("ofod", frew-sinfo);

new-> prev= NULL;

new-> new+= NULL;

rew-> new+= NULL;

of rear== NULL) the

front= rear= new

else

