

1. WAP to stimulate the working of the queue of integers using an array. Provide the following operations: Insert, delete, display. The program should print appropriate message for overflow and underflow condition. Hirclud (stdio.h)

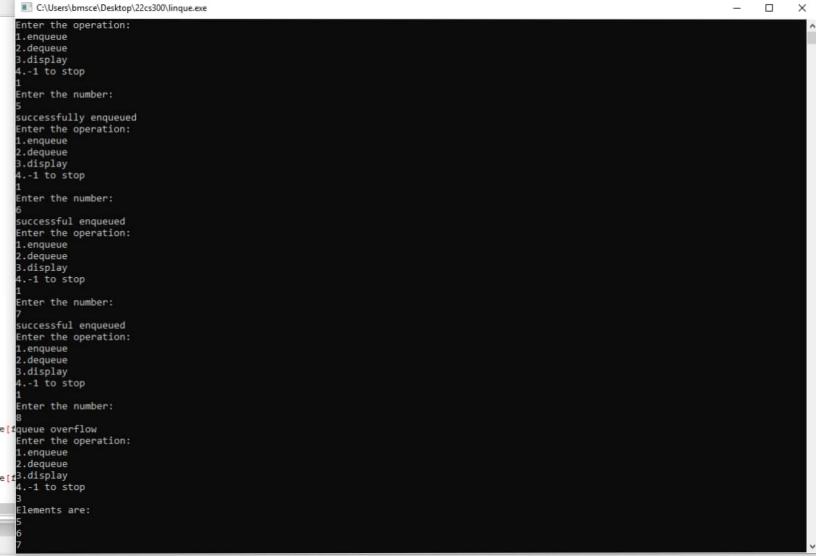
Hidefine N 3 Int quoue[N], front =-1, rear =-1; void enquerdint ri); void dequere (); void display (); void main () int choice, num? whileas } printf ("Finter the operation: In I equals 2. de que la 3. display 1 74. - 16 stoly scanf (" >/d", & chorce)? printf (operation completed. In'); switch (chaice) case 10 printel Enter the number: (n');

cranf(" 7.d", 2 num); engious (num); break; case 2 : dequeue (); break; case 3: display (); break; default: printf ("invalid input"); void enqueue (int n) 2f(rear == N-1) printfl'queue overfrontn'); else if (front == 1 22 reas == -1) front: rear = 0; quere [rear] = n; Print[1" Succesfully conquered in "); else rear #+; quene [rear]=n; printfl"Surreus feele enqueced["]

soid dequelle if (front=-1) printf l'queue underflow(n')? else if (front = = real) printfl"deleted element iq : 3/d (n', queue [front];

front = rear = -1; printf ("deleted element is = "/.dln", quevet forts);
front ++; void display () if (front ==-1) printf ("queue is empty (n'); ent e; printf l'Flerents are: In');

for (i fant; i <= rear ; i ++) printf (of.d(n', quoustis); Moetput Exter operation A. enque. 2. dequeul 3. display 4. -1 to stop Enter the number: successfully expressed Enter the operation: I enquere 2 dequeve 3. display 4. -1 to stop successfully enquered Enter operation 1. enquer 2. dequere 2. display Elements are



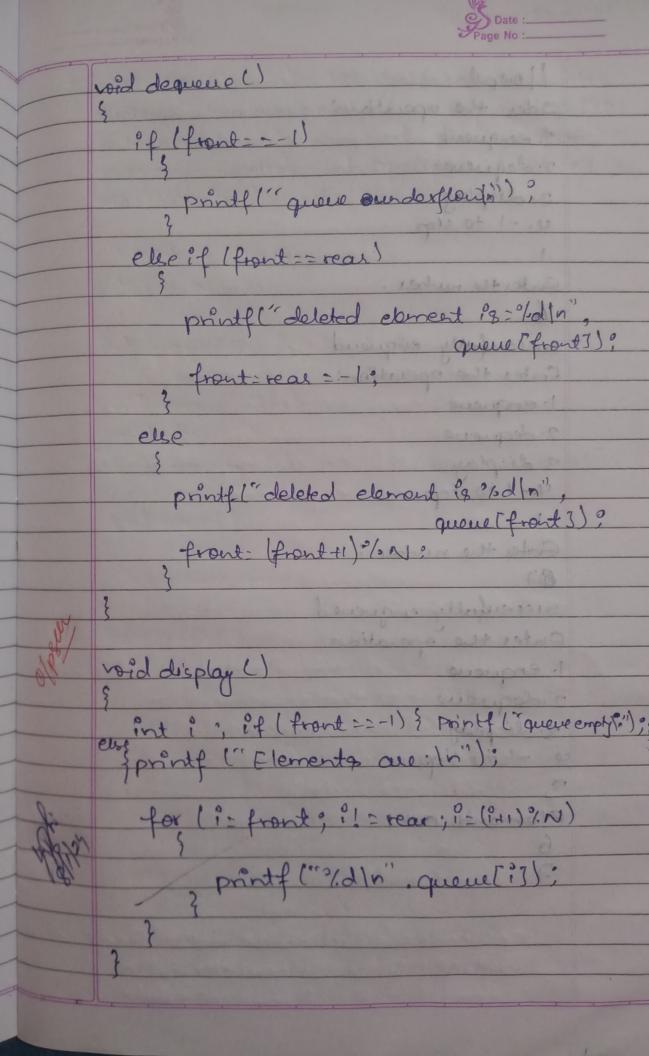
2. WAP to stimulate the working of the circular quere of integers veing on array, provide the following operations: thout, delate, display. The program should print oppropriate menage for overflow and condession condition. Hinclude (stollo.h) int queue[N], front=-1, reas=-1; void enque(int n);
void dequeve();
void display(); soid mainl int choice, neers, while (1) } printf ("Friter the operation \n 1. enqueue \n

2. dequeue \n 3. display \n 4.-1 to stop \b)

scanf ("\d", & choice);

if (choice = = -1) } printf ("operation completed In"); elee {
Switch (chaice) case 1: printf. ("Enter the number In").

scarf ("%d" &num); enqueue (num) ? break i coules a dequeue (); break; come 3: displaye): defaut: printf ("invalid input ("); roid empusue (int n) if([reart)"/0N== front) printf ("queue overflows | "); clie if | front -- 1 82 rear = -1) front = rear = 0; queue [rear] n?
printfl" Successfully enqueued n") print (" succeefuly expensed in)



1 output Enter the operation! 1. cerquere 2. dequeve 3- display 4. -1 to stop Enter the number: 8 succentuly enquered Enter the operation: 1. enqueue 2. dequeue 3. display 4.- 1 to stop Enter the newsor ? 11 4 months succesfully enqueued Enter the operation 1. enqueux 2 dequeue 3. display cp. -1 to stop Plements are:

