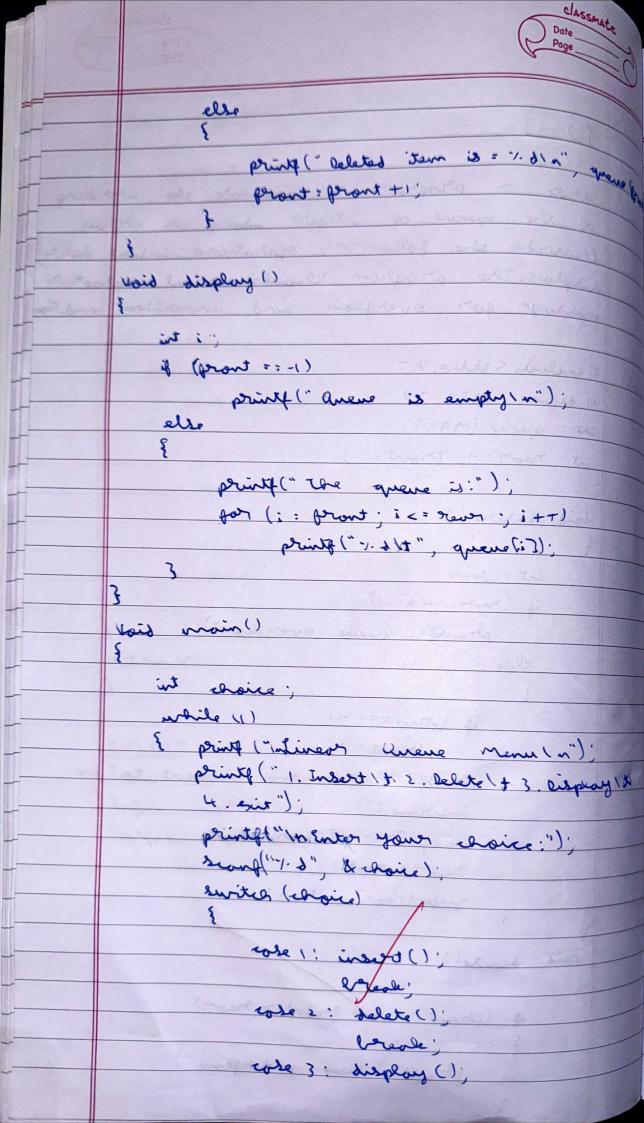
```
8/1/24
      Lab - 3
   1) Write a program to simulate the working
      of the green of integers using an array.
      Cororide the following operations; Insert delete
     display. The program should print appropriate
     notions welfrebru bus welfreys top spoken
     # include < stdio. & >
ens)
     # define MAX 30
      int queue [MAX];
      il-: troop 1-: road tri
          ; met tri
          if (rear : : MAX-1)
            ("molphero event ") flired
               (1-:= troops) 4:
                  front: 0;
                of tremels got restrict ") fling
                inherted: ");
                Scarf ("7. s", & Jen);
                neon: neon+1;
               queux (roos): item;
           (roar < transp 12 -:: transp) &
               prints (" enem underflow");
```



break. tobe 4: epit (1) default : print (" truolis choice"); Vereule', STPUT: TA with a short of Linear avene menn 1. Engert 2. Delete 3. Display 4. Sait enter your choice: Enter the element to be inserted: linear anew mens 1- Insert 2- Relate 3. Dipplay 4. Prit Enter your choice. Enter the element to be inserted: Linever anne neme 1. Insert 2. Relete 3. Dieplay le Exit Enter your choice ! 2 Deleted item is: 4 Rinews Uneve menu 1. tuled 3. Delet 3. Display Enter your choice? The greve is: 2 Linear anew Menu 1. Tursert 2. Relete 3. Dispeny 4. Exit the size such returns

Linear Queue menu			
1.Insert 2.I	Delete	3.Display	4.Exit
Enter your choice :	: 1		
Enter element to be	e inserted: 2		
Linear Queue menu			
1.Insert 2.I	Delete	3.Display	4.Exit
Enter your choice :	: 1		
Enter element to be	inserted: 4		
Linear Queue menu			
1.Insert 2.I	Delete	3.Display	4.Exit
Enter your choice :	2		
Deleted item is: 2			
Linear Queue menu			
1.Insert 2.I	Delete	3.Display	4.Exit
Enter your choice :	: 3		
The queue is: 4			
Linear Queue menu			
1.Insert 2.I	Delete	<pre>3.Display</pre>	4.Exit
Enter your choice :	: 4		

```
# include (stdio. A7
(ens
     # define SIZE 30 mans
     int queue (SIZE);
     int growt -- 1, read :- 1;
              get get translet get
     Void insert () {
        met tem
         15(( proof: : rever: : troops) 11 (1+ rever: : troops)) fi
             printf (" Queue overflow (n");
         else
             (1-: troof) F
               prost: 0:
             printf ("Enter the item to be install
             Scorf (" x- d", & "tern);
             news, (news+1) 7.532E;
            green (rever) = teyn!
  void delete()
       trungle tri
        (r:: troop) fi
```

(" unelfraben ") string ; [tworq] many : tramels (rose: troop) & front :- 1; ; 35228. (1+ troof) = troof print (" Deleted tem is : ". d", element). Void display () (1-:= troop) printf (" Queue is empty"); prints ("The greene is:"); from (i = foront; i != reon; i = (i+1) v. 5126) prints ("1/8/1", quene (;]); prints ("1.0", greve [i];

waid main () int choice; usile (1) print ("1. insert 1 st 2. delete 1 th). dieplay 4. escitivi); prints (" Enter your chaire:") sconf (" 4. d", & choice); switch (choice) code 1: insert (); break; ruse 2: delete (1) break; rabe 3 : display () bereak; rose x: exit (0). defaut: prints (" Involid input"). lesente. 307817: 1. insert 2. Relete 3. Display 4. Prit 1: singular renope restrict Enter the item to be inserted? ? 1. Tursert 7. Releto 3. Ridgelay 4. Suit enter your shore: 2 acleted item is ? 1. Insert 2. Relety 3. sispeny 4- Exit Enter your choice: 3 anene is empty Enter your choice: 6 ? Display k. Sist

1.Insert Enter your Choice		3.Display	4.Exit		
Enter the element to be inserted: 5					
1.Insert Enter your Choice		3.Display	4.Exit		
Enter the element to be inserted: 7					
1.Insert Enter your Choice		3.Display	4.Exit		
Enter the element to be inserted: 9					
1.Insert Enter your Choice		3.Display	4.Exit		
Deleted item is 5					
1.Insert Enter your Choice		3.Display	4.Exit		
The queue is: 7 1.Insert Enter your Choice	2.Delete	3.Display	4.Exit		