```
13 was to simulate the working a cercular queen
 to enteapers using an around provide the following
 operations
  a) Insent b) pelete o pusplay
 * include estation >
 int rean = -1;
 int front = -1:
 int max = 5;
 void Englude (int asili) int value );
    if (rear == -1 11 front == -1) }
        reartt;
       food ++;
       arr [rear] = value;
       rear ++; 9
 else if (rear = = max) }
      if (front 1=0) }
           rear = 0:
          as & [seas] = Value;
          rear ++ ; &
     else of
      Print (" overylow in");
 else of Crean == (front)) }
         Printf ("everflow") ; 9
 else ?
      axx[xeas] = value;
      8 eas + + ; & &
void Dequewo(int arrE), int value)?
   if Cysont == -1 11 rear == -1) ?
        Print of C" cender flows") i 3
  else of Gront == (sear-1) {
     Printf (" Deleted element = "1" d\n", aso [ yount ]);
     rear = -1;
      JEON+= -13 04
```

```
else ?
    fat semps as & [pons);
    Potenty (" Deleted clement = 4/0 d to", temps);
Int main () ;
    int choice;
    i Cereso uni
    int value :
  void operations () $
Point ("Enter appropriate number to perform operations:
Int. Equeas In2. Daywood In3. Desplay In4. Exitting
   scant (" " /d ", & choice);
    switch (choice) &
         Case 1:
           Point ("Enter the value to insent in");
           Acanfl" ./.d", & value);
           Enquere (ave, value);
            operations();
           break;
    case 2:
          Degrace (asx);
          operations ();
          break ;
    Case 3º.
           display (arx);
           operations ();
           break;
```

```
Case 4:
      Print (" Exited in");
       break ;
  default:
       Printy ("Invalid choice in");
       operators ();
       break ; 33
    operations () ;
    return 0',
 Enter Has appropriate number to perform operations?
 1. Engueur
 2 Degrueus
 3. Display
 4. Exit
 Ento the value to insert
ENERT the value to report
Enter the Value to insert
 30
Enter the value to inject
Enter the value to invest
Ento the value to ingest
60
overflow
Deleted element = 10
Enter the value to inject
100
100 20 36 40 50
```