```
Linear Queul.
# Include 25tdio.h >.
# Include < Statib. h ).
# define ONE SIZE &
  int item, kont=0, reas=-1, & [10];
  Void insect_sear ()
    if ( Reas = = QNE SIZE -1) f.
      Paint (" Queu overflow"))
      Return;
   Real = Real +1;
   { [rear] = item;
  int delete front () {
  i) ( kant > rear ) 9.
    front = 0;
    Rear = -1;
   Return -1;
   Leturn & [ Kont++];
   void display & () {.
     int i,
  if (Kont > rear) {.
      Print (" Duere is Empty "h):
        setuen;
```

```
painty (" contents of greene (");
por (1 = pront; ix = real; i++) {.
    Printy ( " xd >n", & [i]);
int main () 1.
  int choice;
 for (;;) 9.
Phinty ("1: insert Rear 2. delete front 2. display
 4: exit \n");
print l' Enter the choice in ");
scanf (" ". d", 2 choi'ee);
 switch (choice) f.
                                     to be inserted!);
  ease: Printy luanter the item
  scary ( " 7. d", 2 irem);
  insut Rear ();
  break;
 case 2: item = delete front ();
  ij (item = = -1)
  Print la Queue is emply");
  Printy (" item deleted = x.d n", item),
    brat;
```

break;
dojault: enit(0);

output:

- 1. Invert hear 2: delete kont 3: display 4: exit.

 Ruter the choice 1

 Cute the item to be invested 10.
- 1. Insurthear 2. delete point 3. display 4. enix.

 Then the choice 1

 There the item to be insufed 20.
- 1. Insertrear 2. delete point 3. display 4. enit.

 Enter the Choice 1.

 Enter the item to be inserted 30.
- 1. Insuteen ; deletefront 3. display 4. eniunter the woice 1: anter the item to be inserted 40.
- 1. Inserthear 2. delete pront 3. display 4. exit.
 enter the choice. 3

contents of queens

question ordered point & display 4. exit.

Enter the choice \$ 2.2.

Then deleted = 10.

Insurreal 2. delete pront 3. display 4. enis.

Enter the choice 2.

Hem deleted = 20.

1. Insert Rear 2. delete kont 1. display 4. enim
Reter the choice 2.

ifem deleted = 30.

1. Fruit Real 2. delete front 3. display 4. enix Brites the choice 2. queue unduflow.