```
1BM19CS043
#include astdio.n7
#include & stallib.n7
  Struct node &
     int data;
      stouct node *next; &;
    void ainsest();
    void quieplay ();
     void qdel();
     void spush ();
     void spop ();
     void sdisplay();
      Struct node * reces=NULL, * front= NULL, * top=NULL',
       int main (int argo, char trage)
       2 int choice;
           Printfl" Enter the choice \n1. stack \n2.queur \n');
            Scanfl" 1.d", & (hoice);
             if (choice ==1)
            dot printf ("Int. push Inz. Display \nz. popln");
               Print+ ("\nEntry your choice:");
                Scan+ ("1-1-d", & Choice);
                 Switch (choice)
               i cas(1: spush(); break;
                  (ası 2: Sdisplay', borak',
                  Cart3: Spop; break;
                   default: if (choicel=4)
                           Printf ("In Invalid Input");
                 y y, while (choice 1=4);
                  Use 1+ ( (hoi(e == 2)
                   do ? Print (" In queue implementation using
                                   linked lit \n');
```

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DAYAMAND
Pointf("In1. (secute In2. Display In3. Delet my. Exit In');
                                                              IBM19(SOB
Paint + (" In Enter your choice:");
   scanfl" 1-d", 4 mice);
    Switch (choice)
     ? (ase 1: qinsert (); brokak;
       (ase 2: 9 display (); brak;
       (asi3: adell); brak;
        default: if (choice 1=4)
              Printf ("In Envalid input");
           white (choice != 4); 8
        Void oginsest()
     2 Struct node * numade;
        neworld = (struct node *) malloc (size of (struct node));
          Pointfil Enter the element: \n);
          Scanf ("1-d", & newnode -7data);
            nounode-7 next= NULL;
              if (seaz= NULL)
            ? rear = newnode;
               front= noumode;
            esset sear -> next = newnode;
                  rar=newnode;
               void qdel()
               & it (troomt == NULL)
              2 Print+(" quue is empty \n"); votuon; 2
               else ? print + ("Deleted ele is -1.d", 420nt -7 data);
                 if (+00n+== read)
               of Point+1" quice is empty in");
                    4 sont=NULL; star=NULL;
```

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else
toont=toon-mext; 83
 Void adippay () ?
    Stouct node #-trop;
      if (tront==NULL)
     ? Point+ ("aumis empty");
       "seturn;
      temp=front;
       while (temp!=NULL)
     2 Print+1" 1.d", +(mp => data);
         temp=temp=next; 99
       void spush()
      int item;
        Struct node knownode;
          Point+1" Entro the element \n");
           Scanf (" 1.d", & Hem);
          newnode = (struct node ) malloc(size of (struct node);
           nounde-7 data = item;
            newnode -> next=NULL;
              if (top== NULL)
                top=newnode;
                else
                 newnode Inext=top;
                  top=neconode;
           void spop() }
                 if (top==NULL)
                    Printf(" stack - is empty");
              else & print+1" element removed is 1/d =" , top-7 data).
                  top=top=next; & &
```

```
Void solip ()

2

Strouct node *temp;

temp=top;

if (top==NULL)

Printf("stack is empty");

while I temp!=NULL)

2 Printf(".fd", temp=deuta);

temp=temp=rnenct;

3 9
```