100	DATE
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Implementation of stacks of greens using linked list
frogram:-
#include < stdio. h>
include < stdiib.h>
typedet struct node &
int info;
Stauct node * link;
3
Node 3
140000
Node * temp1, * temp2;
int m, i;
printf (" Enter number of nodes:\n");
scanf (ec olod", 8n);
for (i=o; i <n; i+t)<="" td=""></n;>
§
temp1 = (Nade *) malloc (Sixe of (Nade));
prints (c Enter value for mode of od \n", i+1);
scane (" olad", stemp -1 -> info);
tempt -> link = NULL;
if (8taget = NULL)
stant = templ;
else

```
yord push () 3
 int info;
 Node * ptr = ( Node * ) malloc ( size of ( Node) );
 if Chir == NULL)
 printf ( "Stack empty 1/n");
scanf ( oc olad ", zinfo);
  if C head = = NULL)
 ptr -> info = info;
  ptr - link = NULL;
   head = ptr;
  else
   ptr -> info = info;
   ptr - link = head;
    head = ptr;
    }
    3() 404 biox
     int item;
     Node * ptr;
     if Chead = = NULL)
```

```
printe (" Stack Underflow \n");
  else
   item = head - info;
   ptr = head;
   head = head - link;
   free ( ptr);
  printf (" Item papped /n");
void display S() !
Pat i:
  Node * bir;
ptr = bead;
 if (ptr == NULL) {
 printf(" Stack empty \n");
  else
  brinte (" Elements are /n");
   ushile (ptrl = NULL)
   print ( " dod', ptr -info);
   ptr= ptr -> 12n12;
```

```
void endure ();
void de Pune ();
 void display QC);
 Struct node + front;
 Storuct node * Team.
 30 summer Dion
  Mode * pir.
   int item;
  ptr=(Node*) malloc (sirea) (Node));
  if Clots == NULL) {
    printf (" Our Oungrow \n");
    Helman;
    }
    <u>else</u>
     printe (" Enter value \n");
     scanf (" god", litem);
     bir → info = item;
      if ( front == MULL)
       front = ptt;
       tean = ptr;
       Front - link = NUIL;
        teny - link = hull;
        else
```

```
reast -> link = bir;
 read = ptr;
  rean -> line = Mull;
void delieue () ?
Mode * ptr;
if C front == MULL)
print ( " Oum underflow (n");
Helman;
else
ptr = front;
front = front -> link;
free (pir);
 printf(" Item deleted \n");
void display 0 () ?
Made * plr;
plr = front;
if C front = = NULL)
printf (" Queus empty /n");
```

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	case 3: pop();
	break;
	case 4: display-s();
	break;
	case 5: endum U;
	break;
	case 6: de pueue();
	break;
	case 7: display Q();
	break;
	core 8: epit (0);
	break;
	default: printf (« Micong choice!");
	break;
	}
	}
	}
	And the second s
1	
1	

Expected output :-

```
2. Stack C push)
```

3. Stack Chops

4. Stack Caisplay) and in

S. Enquiu

6. dequeux

7. Oume Cdisplay)

8. Exit

Enter choice:

L

Enter the value;

8

Enter choice:

2

Enter value:

O

Enter choice:

2

Enter value:

3

```
Emter choice : late
with hellion
              stack elements one;
          The
              0 8
          3
             choice : Audust .....
        Enter
         3
        Item popped I then been about
        Enter choice: daily inches
         The Stack elements one:
          0
               8
                 1 dear 1 Lane - "
          Enter choice:
        . 6 $75 returned la interior cette 10 40
          Enter value della la la
          4
           and the second
       Enter choice :
Livet water 145 week 145 " 1 3 color
      Enter value
         The state Like
      Enter choice;
          S-
          Enter value:
```

Enter choice:
7
The aum elements

The gum elements have

Enter choice:

6

Item deleted

Enter choice:

7

The quaire elements are:

I desile to be a little of the later of land

Carrett about I wise we

5 7 6

CHUM TRAILE A DE

plymber die to horas.