```
#include <stdio.h>
      #include <stdlib.h>
     struct node
      •
           int data;
           struct node" next;
      };
     struct node "rear-NULL, "front =NULL, "top=NULL;
 10
11
     struct node getnode(int item)
13 -
14 15 16 17 18 19 20 21 -
23 24 25 26 27 28 29 18
          struct node* newn = (struct node*)malloc(sizeof(struct node));
newn->data = item;
newn->next = NULL;
raturn newn;
      void display(struct node head)
           (head - NULL)
                printf("List is empty.\n"); return;
          struct node* ptr = head;
while(ptr)
{
```

```
main.c
              printf("\b \b\b \n");
  33
  34
  35
        struct node" insertfront(struct node" head, int item)
  36
  37 - {
  38
              struct node newn = getnode(item);
              newn->next = head;
  39
              head = newn;
   40
              return head;
  41
  42
  43
        void swap(int "a, int "b)
  44
  45 - {
46
47
48
49
50
51
52
53
54
55
56
57
56
60
61
62
             int temp;
temp a;
a b;
b temp;
                                                                                                           I
        struct node" sort (struct node" head)
              int sorted;
if(head == NULL) return head;
struct node* ptr = head;
do
                   ptr head;
sorted 0;
                                                                                                - 8 M . .
```

```
sorted = 0;
             while(ptr->next)
 64
                 if(ptr->data > ptr->next->data)
 65
 66
                     swap(&ptr->data, &ptr->next->data);
sorted = 1;
 67
68
                 }
69
                 ptr = ptr->next;
 70
        } while(sorted == 1);
         return head;
73
74
75
76
77
78
79
80
81
82
83
84
85
86
87
89
   void reverse(struct node ** head)
        }
head = prev;
    struct node concatenate(struct node head1, struct node head2)
```

```
main.c
debugger for
                           struct node concatenate(struct node nead), struct node nead/)
                     90
                     91
run, debug.
                                  struct node ptr = head1;
                     92
                                  while(ptr->next)
                     93 .
                                  1
                      94
                                        ptr = ptr->next;
                      95
                                  }
jects
                      96
                                  ptr->next = head2;
TTO STREET
                      97
                                  return head1;
                      98
                            }
ramming
                      99
Questions
                     100
                     101
Up
                     102
                             void qinsert()
gin
                     103
104
105
106
107
108
109
110
                            1
                                  struct node *newnode;
newnode=(struct node *) malloc(sizeof(struct node));
printf("Enter the element:\n");
scanf("%d", %newnode->data);
newnode->next=NULL;
                                   if(rear=MULL)
                                         rear newnode;
front newnode;
```

```
118
                                        rear->next=newnode;
                     119
                                        rear newnode;
run debug
                     120
                                  }
are.
                     121
                     122
Œ
                     123
                            void qdel()
ojects
                     124 - {
                     125
                                  if(front==NULL)
om
                     126 -
                                  €
gramming
                     127
                                      printf("Queue is empty\n"); return;
                     128
                                  }
ng Questions
n Up
                     130
                                  else
                     131 -
                                  €
ogin
                                        printf("Deleted ele is %d",front->data);
if(front==rear)
                     134
                                            printf("Queue is empty\n");
front=NULL; rear=NULL;
                     136
137
138
139
140
141
142
143
144
145
146
147
                                       }
else
front=front->next;
                            void qdisplay()
                                  struct node "temp;
if(front = NULL)
SDB Tutonal - Credity
```

```
M Save
                                                                                        () Beautify
                     146
                                   1 (front == NULL)
                     147 -
run, debug.
                     148
                                         printf("Queue is empty");
re.
                     149
                                         return;
                     150
E
                     151
                                  temp=front;
ojects
                     152
                                  while (temp !=NULL)
                     153 -
om need
                                   1
                     154
                                        printf("%d ",temp->data);
gramming
                     155
                                        temp=temp->next;
                     156
g Questions
                     157
n Up
                     158
                             void spush()
                      159
gin
                                   int item;
                      162
                                   struct node *newnode;
                                   printf("Enter the element\n");
scanf("%d", &item);
                      166
                                  newnode=(struct node*)malloc(sizeof(struct node));
newnode->data=item;
newnode->next=NULL;
if(top==NULL)
    top=newnode;
                      166
167
168
169
                      170
                                        newmode ->next=top;
top=newmode;
liog . Terms of Use -
DB Tutorial - Credit
                              void spop()
```

```
and debugger for
                                 void spop()
                         175
                         176 - {
le, run, debug.
                         177
                                        if(top==NULL)
                         178
                                             printf("stack is empty");
                         179
DE
                                        else
                         189 -
                                        €
rojects
                         181
                         182
                                           printf("element removed is %d:", top->data);
com moo
                         183
gnimmargor
                         184
                                           top:top->next;
                         185
ing Questions
ign Up
                          188
                          190
                   <
                         191
192
193
194
195
196
197
198
199
200
                                  void sdisplay()
                                 struct node *temp;
temp=top;
if(top==NULL)
    printf("Stack is empty");
while(temp!=NULL)
{
                          201
202
203
204
- Blog - Terms of Uses
- GDB Tutorist - Credit
- Privacy
```

1.0

```
int main()

int main()

int min()

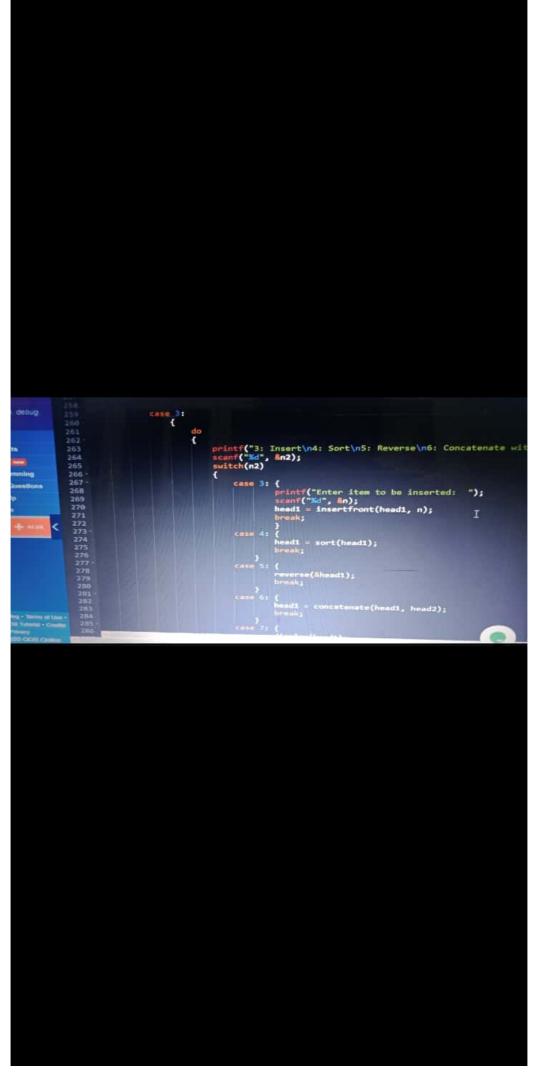
int min, nz, n, ch, flag = 0;

int ni, nz, n, ch, flag = null;

int choice;

int choice
```

```
239
                                         >
   240
   241
   242
                                                   case 2:
   243 -
                                                              (do
   244
                                                             fo
{ printf("\nQueue implementation using linked list\n");
    printf("\n1. Create \n2. Display \n3. Delete \n4. Exit \n");
    printf("\nEnter your choice : ");
    scanf("Md", Achoice);
    switch(choice)
{ case 1: qinsert(); break;
    case 2: qdisplay(); break;
    case 3: qdel(); break;
}
   245 -
  246
  247
  248
  249
250
252
253
254
255
256
257
258
260
261
262
263
264
265
265
                                                                 }
}while(choice(=10);
                                                                             printf("3: Insert\n4: Sort\n5: Reverse\n6: Concatenate with 1
scanf("%d", %n2);
seltch(n2)
```



```
}
case 5: {
                reverse(&head1);
                break;
       case 6: {
                head1 = concatenate(head1, head2);
                break;
       case 7: {
                display(head1);
                break;
       case 8: {
                                                         I
                flag = 1;
                break;
       case 9: {
    exit(0);
       default: printf("Invalid input.\n");
     (flag == 1)
}while(1);
break;
```

```
case 4: {
    reverse(Shead2);
    break;
    break;
    case 5: {
    reverse(Shead2);
    break;
    case 6: {
    reverse(Shead2);
    break;
    case 6: {
    reverse(Shead2);
    break;
    case 6: {
    reverse(Shead2);
    reverse(Shead2);
    break;
    case 6: {
    reverse(Shead2);
    reverse(Shead2)
```

```
head2 = concatenate(head2, head1);
                                                   break;
                                              }
                                         case 7: {
                                                   display(head2);
                                                   break;
34
35
                                         case 8: {
136
                                                  flag = 1;
337
                                                  break;
338
339 -
                                         case 9: {
340
                                                  exit(0);
341
                                                                                               I
342
                                        default: printf("Invalid input.\n");
343
344
                                    if(flag == 1)
 345 -
 346
                                         flag = 0; break;
 347
                               }while(1);
break;
  349
                               exit(0);
printf("Invalid input.\n");
  352
353
354
355
356
             }while(1);
return 0;
```

	input
. Display	mpat
. Pop	
inter your choice : 1	
inter the element	
the element	
. Push	
2. Display	
3. Pop	
Enter your choice : 3	
element removed is 2:	
l. Push	
2. Display	
3. Pop	I
Enter your choice : 2	
Stack is empty	
1. Push	
2. Display	
3. Pop	
Enter your choice : [