

```
main.c
 38
 39
 40
     void Insert2()
 42
 43
         struct node *newnode;
 44
         struct node *temp;
 45
         int s,y;
 46
 47
         do
 48
 49
         printf("Enter integer : \n");
         scanf("%d",&s);
 50
         newnode=(struct node*)malloc(sizeof(struct node));
 51
 52
         newnode->sem =s;
 53
         if (head2==NULL)
 54
 55
           newnode->next=NULL;
 56
           head2=newnode;
 57
 58
           c++;
 59
 60
          else
 61
 62
              temp=head2;
 63
              while(temp->next!=NULL)
 64
 65
                  temp=temp->next;
 66
             temp->next=newnode;
 67
             newnode->next=NULL;
 68
 69
              c++;
 70
 71
          printf("do u want to continue adding:0 or 1\n");
 72
              of("%d".&v):
 73
                                                                                                                    ^ ( □ □ □ × // 12/13/2020
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           0
```

```
}wnile(y!=0);
 75
 76
 77
     void bubbleSort()
 79
 80
         int swapped, i;
 81
         struct node *ptr1;
 82
         struct node *lptr = NULL;
 83
 84
 85
         if (head == NULL)
 86
             return;
 87
 88
         do
 89
 90
             swapped = 0;
 91
             ptr1 = head;
 92
 93
             while (ptr1->next != lptr)
 94
 95
                 if (ptr1->sem > ptr1->next->sem)
 96
 97
                     int temp = ptr1->sem;
 98
                     ptr1->sem = ptr1->next->sem;
 99
                     ptr1->next->sem = temp;
100
                     swapped = 1;
101
102
                 ptr1 = ptr1->next;
103
104
             lptr = ptr1;
105
106
         while (swapped);
107 }
108
109 void reverse()
         0
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```

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```
103
104
             lptr = ptr1;
105
         while (swapped);
106
107 }
108
109 void reverse()
110 - {
111
         struct node* prev = NULL;
112
         struct node* current = head;
113
         struct node* next = NULL;
114 -
         while (current != NULL) {
115
             next = current->next;
116
             current->next = prev;
117
             prev = current;
118
             current = next;
119
120
         head= prev;
121 }
122
    void concat()
123
124 - {
125
             struct node *ptr;
126
             if(head==NULL)
127 -
                     head=head2;
128
129
             if(head2==NULL)
130
131 -
132
                     head2=head;
133
134
             ptr=head;
135
             while(ptr->next!=NULL)
136
                     ptr=ptr->next;
137
             ptr->next=head2;
138 }
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         0
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mani.c

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136
                      ptr=ptr->next;
137
             ptr->next=head2;
138 }
     void display1()
140 -
141
         struct node *ptr;
142
         ptr=head;
143
         int i=1;
144
         if(ptr==NULL)
145
146
147
             printf("Linked list is empty!\n");
148
149
         else
150
             while(ptr!= NULL)
151
152 -
                  printf(" %d",ptr->sem);
153
154
155
                  ptr=ptr->next;
156
157
158
159
160
161
     void display2()
162 - {
163
         struct node *ptr;
164
         ptr=head2;
165
         int i=1;
166
167
         if(ptr==NULL)
168
             printf("Linked list is empty!\n");
169
170
171
                                                                                                                                   7:52 PM
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mann.c

```
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160
     void display2()
161
162 - {
          struct node *ptr;
163
164
          ptr=head2;
165
          int i=1;
166
          if(ptr==NULL)
167
168
169
              printf("Linked list is empty!\n");
170
          else
171
172 -
173
              while(ptr!= NULL)
174
175
176
                  printf(" %d",ptr->sem);
177
                  printf("\n");
178
179
                  i++;
                  ptr=ptr->next;
180
181
182
183
184
185
186
     int main()
187
188 - {
          int choice,pos;
189
              printf("\n1. Insert \n2. sort \n3. reverse \n4.concat 2 lists \n5.exit\n");
190
191
          do
192
193
194
              printf("\nEnter your choice : ");
195
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```
184
185
186
187
     int main()
188 -
         int choice,pos;
189
             printf("\n1. Insert \n2. sort \n3. reverse \n4.concat 2 lists \n5.exit\n");
190
         do
191
192 -
193
194
             printf("\nEnter your choice : ");
195
             scanf("%d",&choice);
196
197
             switch(choice)
198
199
                 case 1:
200
                 Insert();
201
                 break;
202
203
                 case 2:
204
                 bubbleSort();
205
                 display1();
206
                 break;
207
208
                  case 3:
                 reverse();
209
                 display1();
210
211
                 break;
212
213
                 case 4:
214
                 Insert2();
215
                 concat();
216
                 display1();
217
                 break;
218
219
                  case 5:
                                                                                                                   ^ @ ■ 4× //. 12/13/2020
                                                                                                                                  7:52 PM
         0
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```

ain.c 193 194 printf("\nEnter your choice : "); 195 scanf("%d",&choice); 196 switch(choice) 197 198 199 case 1: Insert(); 200 201 break; 202 203 case 2: bubbleSort(); 204 display1(); 205 206 break; 207 208 case 3: reverse(); 209 210 display1(); 211 break; 212 213 case 4: 214 Insert2(); concat(); 215 display1(); 216 217 break; 218 219 case 5: 220 break; 221 222 default: printf("Wrong choice!\n"); 223 break; 224 225 }while(choice!=5); 226 227 return 0; 228 } ^ (€) ■ 4× (6. 12/13/2020 0 ≓ŧ

```
1. Insert
2. sort
reverse
4.concat 2 lists
5.exit
Enter your choice : 1
Enter integer : 12
Enter your choice : 1
Enter integer : 6
Enter your choice : 1
Enter integer : 45
Enter your choice : 2
 6 12 45
Enter your choice : 3
 45 12 6
Enter your choice : 4
Enter integer :
do u want to continue adding:0 or 1
Enter integer :
67
do u want to continue adding:0 or 1
 45 12 6 34 67
Enter your choice : 2
 6 12 34 45 67
Enter your choice :
```



