

```
mahantesh@mahantesh-Inspiron-15-3567:~/Data Structures/lab/lab7$ make llist
cc      llist.c  -o llist
mahantesh@mahantesh-Inspiron-15-3567:~/Data Structures/lab/lab7$ ./llist
```

```
1:Insert_front
2:Insert_rear
3.Insert at specified position
4:Delete_front
5.Delete_rear
6.Delete at specified position
7.Sort
8.Concatenate two lists
9.Reverse the list
10.Display_list
11.Exit
enter the choice
1
enter the item at front-end
1
```

```
1:Insert_front
2:Insert_rear
3.Insert at specified position
4:Delete_front
5.Delete_rear
6.Delete at specified position
7.Sort
8.Concatenate two lists
9.Reverse the list
10.Display_list
11.Exit
enter the choice
2
enter the item at rear-end
10
```

```
1:Insert_front
2:Insert_rear
3.Insert at specified position
4:Delete_front
5.Delete_rear
6.Delete at specified position
7.Sort
8.Concatenate two lists
9.Reverse the list
10.Display_list
11.Exit
enter the choice
3
enter the item
12
enter the position
3
```

```
1:Insert_front
2:Insert_rear
3.Insert at specified position
4:Delete_front
5.Delete_rear
```

6.Delete at specified position  
7.Sort  
8.Concatenate two lists  
9.Reverse the list  
10.Display\_list  
11.Exit

enter the choice

10

List :

1

10

12

1:Insert\_front  
2:Insert\_rear  
3.Insert at specified position  
4:Delete\_front  
5.Delete\_rear  
6.Delete at specified position  
7.Sort  
8.Concatenate two lists  
9.Reverse the list  
10.Display\_list  
11.Exit

enter the choice

1

enter the item at front-end

10

1:Insert\_front  
2:Insert\_rear  
3.Insert at specified position  
4:Delete\_front  
5.Delete\_rear  
6.Delete at specified position  
7.Sort  
8.Concatenate two lists  
9.Reverse the list  
10.Display\_list  
11.Exit

enter the choice

1

enter the item at front-end

19

1:Insert\_front  
2:Insert\_rear  
3.Insert at specified position  
4:Delete\_front  
5.Delete\_rear  
6.Delete at specified position  
7.Sort  
8.Concatenate two lists  
9.Reverse the list  
10.Display\_list  
11.Exit

enter the choice

4

item deleted at front-end is=19

1:Insert\_front  
2:Insert\_rear  
3.Insert at specified position  
4:Delete\_front  
5.Delete\_rear  
6.Delete at specified position  
7.Sort  
8.Concatenate two lists  
9.Reverse the list  
10.Display\_list  
11.Exit

enter the choice

5

item deleted at rear-end is 12

1:Insert\_front  
2:Insert\_rear  
3.Insert at specified position  
4:Delete\_front  
5.Delete\_rear  
6.Delete at specified position  
7.Sort  
8.Concatenate two lists  
9.Reverse the list  
10.Display\_list  
11.Exit

enter the choice

6

enter the position

1

Node deleted successfully

1:Insert\_front  
2:Insert\_rear  
3.Insert at specified position  
4:Delete\_front  
5.Delete\_rear  
6.Delete at specified position  
7.Sort  
8.Concatenate two lists  
9.Reverse the list  
10.Display\_list  
11.Exit

enter the choice

10

List :

1

10

1:Insert\_front  
2:Insert\_rear  
3.Insert at specified position  
4:Delete\_front  
5.Delete\_rear  
6.Delete at specified position  
7.Sort  
8.Concatenate two lists  
9.Reverse the list  
10.Display\_list

11.Exit  
enter the choice  
1  
enter the item at front-end  
-1

1:Insert\_front  
2:Insert\_rear  
3.Insert at specified position  
4:Delete\_front  
5.Delete\_rear  
6.Delete at specified position  
7.Sort  
8.Concatenate two lists  
9.Reverse the list  
10.Display\_list  
11.Exit  
enter the choice  
1  
enter the item at front-end  
100

1:Insert\_front  
2:Insert\_rear  
3.Insert at specified position  
4:Delete\_front  
5.Delete\_rear  
6.Delete at specified position  
7.Sort  
8.Concatenate two lists  
9.Reverse the list  
10.Display\_list  
11.Exit  
enter the choice  
7  
Items In Sorted Order are  
-1  
1  
10  
100

1:Insert\_front  
2:Insert\_rear  
3.Insert at specified position  
4:Delete\_front  
5.Delete\_rear  
6.Delete at specified position  
7.Sort  
8.Concatenate two lists  
9.Reverse the list  
10.Display\_list  
11.Exit  
enter the choice  
9  
Reverse list :  
100  
10  
1  
-1

1:Insert\_front  
2:Insert\_rear  
3.Insert at specified position  
4:Delete\_front  
5.Delete\_rear  
6.Delete at specified position  
7.Sort  
8.Concatenate two lists  
9.Reverse the list  
10.Display\_list  
11.Exit

enter the choice

8

enter the no of nodes in 1

4

enter the item

1

enter the item

2

enter the item

3

enter the item

4

enter the no of nodes in 2

2

enter the item

1

enter the item

2

Concatenated list :

1

2

3

4

1

2

1:Insert\_front  
2:Insert\_rear  
3.Insert at specified position  
4:Delete\_front  
5.Delete\_rear  
6.Delete at specified position  
7.Sort  
8.Concatenate two lists  
9.Reverse the list  
10.Display\_list  
11.Exit

enter the choice

11