

mahantesh@mahantesh-Inspiron-15-3567:~/Data Structures/lab/lab9\$ ./dlist

```
1:insert front
2:insert rear
3:delete front
4:delete rear
5:insert to the left of the key
6:insert to the right of the key
7:search
8>Delete duplicates
9:display
10:exit
enter the choice
1
enter the item at front end
1
```

```
1:insert front
2:insert rear
3:delete front
4:delete rear
5:insert to the left of the key
6:insert to the right of the key
7:search
8>Delete duplicates
9:display
10:exit
enter the choice
1
enter the item at front end
1
```

```
1:insert front
2:insert rear
3:delete front
4:delete rear
5:insert to the left of the key
6:insert to the right of the key
7:search
8>Delete duplicates
9:display
10:exit
enter the choice
1
enter the item at front end
1
```

```
1:insert front
2:insert rear
3:delete front
4:delete rear
5:insert to the left of the key
6:insert to the right of the key
7:search
8>Delete duplicates
9:display
10:exit
enter the choice
1
```

enter the item at front end  
2

1:insert front  
2:insert rear  
3:delete front  
4:delete rear  
5:insert to the left of the key  
6:insert to the right of the key  
7:search  
8>Delete duplicates  
9:display  
10:exit  
enter the choice  
1  
enter the item at front end  
3

1:insert front  
2:insert rear  
3:delete front  
4:delete rear  
5:insert to the left of the key  
6:insert to the right of the key  
7:search  
8>Delete duplicates  
9:display  
10:exit  
enter the choice  
1  
enter the item at front end  
4

1:insert front  
2:insert rear  
3:delete front  
4:delete rear  
5:insert to the left of the key  
6:insert to the right of the key  
7:search  
8>Delete duplicates  
9:display  
10:exit  
enter the choice  
2  
enter the item at rear end  
3

1:insert front  
2:insert rear  
3:delete front  
4:delete rear  
5:insert to the left of the key  
6:insert to the right of the key  
7:search  
8>Delete duplicates  
9:display  
10:exit  
enter the choice

2  
enter the item at rear end  
5

1:insert front  
2:insert rear  
3:delete front  
4:delete rear  
5:insert to the left of the key  
6:insert to the right of the key  
7:search  
8:Delete duplicates  
9:display  
10:exit  
enter the choice  
2  
enter the item at rear end  
8

1:insert front  
2:insert rear  
3:delete front  
4:delete rear  
5:insert to the left of the key  
6:insert to the right of the key  
7:search  
8:Delete duplicates  
9:display  
10:exit  
enter the choice  
9  
contents of dll  
4 3 2 1 1 1 3 5 8

1:insert front  
2:insert rear  
3:delete front  
4:delete rear  
5:insert to the left of the key  
6:insert to the right of the key  
7:search  
8:Delete duplicates  
9:display  
10:exit  
enter the choice  
8  
enter the item  
1  
dupliactes found at 2 positions and are deleted

1:insert front  
2:insert rear  
3:delete front  
4:delete rear  
5:insert to the left of the key  
6:insert to the right of the key  
7:search  
8:Delete duplicates  
9:display

10:exit  
enter the choice  
9  
contents of dll  
4 3 2 1 3 5 8

1:insert front  
2:insert rear  
3:delete front  
4:delete rear  
5:insert to the left of the key  
6:insert to the right of the key  
7:search  
8>Delete duplicates  
9:display  
10:exit  
enter the choice  
3

the node deleted is 4  
1:insert front  
2:insert rear  
3:delete front  
4:delete rear  
5:insert to the left of the key  
6:insert to the right of the key  
7:search  
8>Delete duplicates  
9:display  
10:exit  
enter the choice  
4

the node deleted is 8  
1:insert front  
2:insert rear  
3:delete front  
4:delete rear  
5:insert to the left of the key  
6:insert to the right of the key  
7:search  
8>Delete duplicates  
9:display  
10:exit  
enter the choice  
5

enter the key item  
12  
key not found

1:insert front  
2:insert rear  
3:delete front  
4:delete rear  
5:insert to the left of the key  
6:insert to the right of the key  
7:search  
8>Delete duplicates  
9:display  
10:exit  
enter the choice

5  
enter the key item  
5  
enter towards left of 5=10

1:insert front  
2:insert rear  
3:delete front  
4:delete rear  
5:insert to the left of the key  
6:insert to the right of the key  
7:search  
8>Delete duplicates  
9:display  
10:exit  
enter the choice  
6  
enter to the key item  
5  
enter towards right of 5 = 12

1:insert front  
2:insert rear  
3:delete front  
4:delete rear  
5:insert to the left of the key  
6:insert to the right of the key  
7:search  
8>Delete duplicates  
9:display  
10:exit  
enter the choice  
9  
contents of dll  
3 2 1 3 10 5 12

1:insert front  
2:insert rear  
3:delete front  
4:delete rear  
5:insert to the left of the key  
6:insert to the right of the key  
7:search  
8>Delete duplicates  
9:display  
10:exit  
enter the choice  
7  
enter the key item to be searched  
100  
Element not found!!!!  
1:insert front  
2:insert rear  
3:delete front  
4:delete rear  
5:insert to the left of the key  
6:insert to the right of the key  
7:search  
8>Delete duplicates

```
9:display
10:exit
enter the choice
7
enter the key item to be searched
3
Element found
1:insert front
2:insert rear
3:delete front
4:delete rear
5:insert to the left of the key
6:insert to the right of the key
7:search
8>Delete duplicates
9:display
10:exit
enter the choice
10
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```