```
1. Insert at left
2. Insert at right
3. Delete
4. Display
5. Exit
Enter your choice
1
enter item
3
1. Insert at left
2. Insert at right
3. Delete
4. Display
5. Exit
Enter your choice
2
Enter the item
4
1. Insert at left
2. Insert at right
3. Delete
4. Display
5. Exit
Enter your choice
2
Enter the item
6
1. Insert at left
2. Insert at right
3. Delete
4. Display
5. Exit
Enter your choice
4
3       4       6
1. Insert at left
```

```
Enter your choice
2
Enter the item
6
  1. Insert at left
  2. Insert at right
  3. Delete
  4. Display
  5. Exit
Enter your choice
4
3        4        6
  1. Insert at left
  2. Insert at right
  3. Delete
  4. Display
  5. Exit
Enter your choice
3
Enter the element to be deleted
4
  1. Insert at left
  2. Insert at right
  3. Delete
  4. Display
  5. Exit
Enter your choice
4
3    6
  1. Insert at left
  2. Insert at right
  3. Delete
  4. Display
  5. Exit
Enter your choice
```