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

```
3
Enter the element to be deleted
6
 1. Insert at the left
 2. Insert at the right
 3. Delete
 4. Display
 5. Exit
Enter your choice
4
8       4       2
 1. Insert at the left
 2. Insert at the right
 3. Delete
 4. Display
 5. Exit
Enter your choice
3
Enter the element to be deleted
2
 1. Insert at the left
 2. Insert at the right
 3. Delete
 4. Display
 5. Exit
Enter your choice
4
8       4
 1. Insert at the left
 2. Insert at the right
 3. Delete
 4. Display
 5. Exit
Enter your choice
```

```
 4. Display
 5. Exit
Enter your choice
1
Enter the item
6
 1. Insert at the left
 2. Insert at the right
 3. Delete
 4. Display
 5. Exit
Enter your choice
1
Enter the item
8
 1. Insert at the left
 2. Insert at the right
 3. Delete
 4. Display
 5. Exit
Enter your choice
4
8         6         4         2
 1. Insert at the left
 2. Insert at the right
 3. Delete
 4. Display
 5. Exit
Enter your choice
3
Enter the element to be deleted
6
 1. Insert at the left
 2. Insert at the right
```