Assignment 3 - Q1

```
Queuing elements: 1 2 3 4 5 6 7 8 9 10

Demonstrating the push function: 1 2 3 4 5 6 7 8 9 10 11

Demonstrating the pop function: 2 3 4 5 6 7 8 9 10 11

Demonstrating the front function: 2

Demonstrating the size function: 10

Demonstrating the empty function: Queue is not empty.

Moving the front element to the rear...

Queue elements after move_to_rear: 3 4 5 6 7 8 9 10 11 2
```

Demonstration of the manipulation of queue data after each function

Assignment 3 - Q2

```
Data : 1 2 3 4 3 5 3

Last occurrence of 3 is at index: 6
```

Demonstration of the recursive linear search function for the last occurring integer

Assignment 3 - Q3

```
Original List: 15 2 23 8 6
Sorted List: 2 6 8 15 23
```

Demonstration of insertion sort on a linked list