7. Linked List Simulation

```
C:\Users\aruna\Desktop\1BM24CS056>gcc LL.c -o LL.exe

C:\Users\aruna\Desktop\1BM24CS056>LL.exe

 ***** MAIN MENU *****
 1. Push an element
 2. Pop an element
 3. Peek an element
 4. Display the Stack
 5. Enqueue an element
 6. Dequeue an element
 7. Peek an element
 8. Display the queue
 9. EXIT
 Enter your option : 4

 The elements in the stack
Stack is empty.

 ***** MAIN MENU *****
 1. Push an element
 2. Pop an element
 3. Peek an element
 4. Display the Stack
 5. Enqueue an element
 6. Dequeue an element
 7. Peek an element
 8. Display the queue
 9. EXIT
 Enter your option : 1

 Enter the number to be inserted into stack: 1
1 pushed to stack.
```

```
***** MAIN MENU *****
1. Push an element
2. Pop an element
3. Peek an element
4. Display the Stack
5. Enqueue an element
6. Dequeue an element
7. Peek an element
8. Display the queue
9. EXIT
Enter your option : 1

Enter the number to be inserted into stack: 2
2 pushed to stack.

***** MAIN MENU *****
1. Push an element
2. Pop an element
3. Peek an element
4. Display the Stack
5. Enqueue an element
6. Dequeue an element
7. Peek an element
8. Display the queue
9. EXIT
Enter your option : 1

Enter the number to be inserted into stack: 3
3 pushed to stack.

***** MAIN MENU *****
1. Push an element
2. Pop an element
3. Peek an element
4. Display the Stack
5. Enqueue an element
6. Dequeue an element
7. Peek an element
8. Display the queue
```

```
  8. Display the queue
  9. EXIT
 Enter your option : 4

 The elements in the stack
Stack elements: 3 2 1

 ***** MAIN MENU *****
 1. Push an element
 2. Pop an element
 3. Peek an element
 4. Display the Stack
 5. Enqueue an element
 6. Dequeue an element
 7. Peek an element
 8. Display the queue
 9. EXIT
 Enter your option : 3

 The number peeked is : 3
 ***** MAIN MENU *****
 1. Push an element
 2. Pop an element
 3. Peek an element
 4. Display the Stack
 5. Enqueue an element
 6. Dequeue an element
 7. Peek an element
 8. Display the queue
 9. EXIT
 Enter your option : 2
3 popped from stack.

 The number poped is : 3
 ***** MAIN MENU *****
 1. Push an element
 2. Pop an element
 3. Peek an element
 4. Display the Stack
 5. Enqueue an element
```

```
 8. Display the queue
 9. EXIT
 Enter your option : 4

 The elements in the stack
Stack elements: 2 1

 ***** MAIN MENU *****
 1. Push an element
 2. Pop an element
 3. Peek an element
 4. Display the Stack
 5. Enqueue an element
 6. Dequeue an element
 7. Peek an element
 8. Display the queue
 9. EXIT
 Enter your option : 8

 The elements in the queue
Queue is empty.

 ***** MAIN MENU *****
 1. Push an element
 2. Pop an element
 3. Peek an element
 4. Display the Stack
 5. Enqueue an element
 6. Dequeue an element
 7. Peek an element
 8. Display the queue
 9. EXIT
 Enter your option : 5

 Enter the number to be inserted in the queue : 6
6 enqueued to queue.
```

```
***** MAIN MENU *****
1. Push an element
2. Pop an element
3. Peek an element
4. Display the Stack
5. Enqueue an element
6. Dequeue an element
7. Peek an element
8. Display the queue
9. EXIT
Enter your option : 5

Enter the number to be inserted in the queue : 7
7 enqueued to queue.

***** MAIN MENU *****
1. Push an element
2. Pop an element
3. Peek an element
4. Display the Stack
5. Enqueue an element
6. Dequeue an element
7. Peek an element
8. Display the queue
9. EXIT
Enter your option : 5

Enter the number to be inserted in the queue : 8
8 enqueued to queue.
```

```
***** MAIN MENU *****
1. Push an element
2. Pop an element
3. Peek an element
4. Display the Stack
5. Enqueue an element
6. Dequeue an element
7. Peek an element
8. Display the queue
9. EXIT
Enter your option : 8

The elements in the queue
Queue elements: 6 7 8

***** MAIN MENU *****
1. Push an element
2. Pop an element
3. Peek an element
4. Display the Stack
5. Enqueue an element
6. Dequeue an element
7. Peek an element
8. Display the queue
9. EXIT
Enter your option : 7

The number peeked is : 6
***** MAIN MENU *****
1. Push an element
2. Pop an element
3. Peek an element
4. Display the Stack
5. Enqueue an element
6. Dequeue an element
7. Peek an element
8. Display the queue
9. EXIT
Enter your option : 6
```

```
***** MAIN MENU *****
1. Push an element
2. Pop an element
3. Peek an element
4. Display the Stack
5. Enqueue an element
6. Dequeue an element
7. Peek an element
8. Display the queue
9. EXIT
Enter your option : 6
6 dequeued from queue.

The number dqueued is : 6
***** MAIN MENU *****
1. Push an element
2. Pop an element
3. Peek an element
4. Display the Stack
5. Enqueue an element
6. Dequeue an element
7. Peek an element
8. Display the queue
9. EXIT
Enter your option : 8

The elements in the queue
Queue elements: 7 8
```