## Implement an ADT using a linked list data structure

Develop the following stack class. The class should use your IntLinkedList class and should implement the appropriate ADT interface.

| Class MyLinkedStack implements StackADT |
| --- |
| intLinkedList list |
| void display ( ) //Console UI for testing<br>overridden default constructor |

*Remember, you will also need to implement the methods defined in the interface.*

## Test MyLinkedStack with the following driver

```
static void linkedstackdriver()
{
      MyLinkedStack astack = new MyLinkedStack();
      System.out.println("testing Stack ");
      System.out.println("testing is empty " + astack.isEmpty() );
      for (int i = 1 ; i<6 ; i++)
        astack.push( i );

      System.out.println ( "num values in stack: " + astack.size() );
      astack.display();
      System.out.println("popping value" + astack.pop());
      System.out.println("value 5 should have been removed");
      astack.display( );
}
```

## Expected output

```
testing Stack
testing is empty true
num values in stack: 5
list has 5 items
value: 5
value: 4
value: 3
value: 2
value: 1
popping value 5
value 5 should have been removed
list has 4 items
value: 4
value: 3
value: 2
value: 1
```