C:\Users\Rich\Documents\NetBeansProjects\Lab06\src\LinkedStack.java

```java
1
2 /**
3  * This is based on textbook code fragment 6.4
4  * This stack implementation add the last in element at the head.
5  * @author Richelin Metellus
6  * @param <E>
7  */
8 public class LinkedStack<E> implements Stack<E> {
9     private SinglyLinkedList<E> list = new SinglyLinkedList<>();
10    public LinkedStack(){}        //empty list
11    @Override
12    public int size()
13    {
14        return list.size();
15    }
16    @Override
17    public boolean isEmpty()
18    {
19        return list.isEmpty();
20    }
21    @Override
22    public void push(E element)
23    {
24        list.addFirst(element);
25    }
26    @Override
27    public E top(){return list.first();}
28    @Override
29    public E pop(){return list.removeFirst();}
30 }
31
```

Members   ∨   <empty>

- SinglyLinkedList<E>
  - ◇ SinglyLinkedList()
  - ● addFirst(E e)
  - ● addLast(E e)
  - ● equals(Object o) : boolean ↑ Object
  - ● first() : E
  - ● isEmpty() : boolean
  - ● last() : E
  - ● removeFirst() : E
  - ● removeLast() : E
  - ● size() : int
  - ● toString() : String ↑ Object
  - ⬛ head : Node<E>
  - ⬛ size : int
  - ⬛ tail : Node<E>
- Node<E>
  - ◇ Node(E e, Node<E> n)
  - ● getElement() : E
  - ● getNext() : Node<E>
  - ● setNext(Node<E> newNext)
  - ⬛ element : E
  - ⬛ next : Node<E>