We continue our linked list class.

1. Questions?

2. Recall: We implemented the Element class. This is a private, self-referential class that holds one or more values as a linked chain. Many of the methods were recursive, where the simplest case involved a list of one element.

3. Recall: We implemented the LinkedList class. This is a public wrapper class for the lists of Elements. This class has a single private attribute _head that is a reference to the first Element in the list. The methods of this class parallel, to some degree, the methods of the Element class. It is the responsibility of the wrapper to handle the notion of an “empty” list.


5. Implementation of the __setitem__ method.

6. Implementation of the append method.

7. Implementation of the __iter__ method.

8. Implementation of the extend method. This allows us to improve our initializer for the LinkedList class.

9. Implementation of the __contains__ method. This supports the in keyword.

10. Implementation of a pop method.

11. Implementation of a reverse method. This allows us to reverse the order of elements of a list, in place.

12. Implementation of a private method to insert an element into a list that is assumed to be in order.