




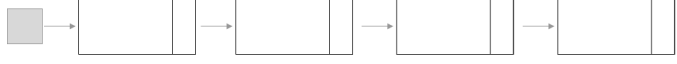
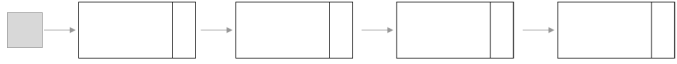
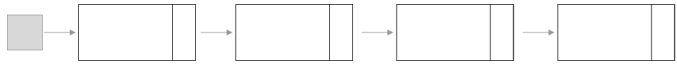
CSC148 Worksheet 12 Solution

Hyungmo Gu


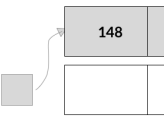
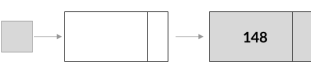
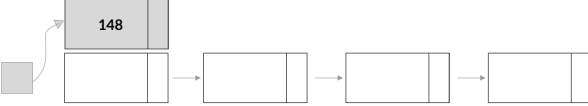
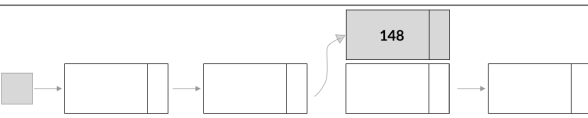

April 23, 2020

Question 1


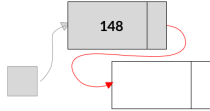

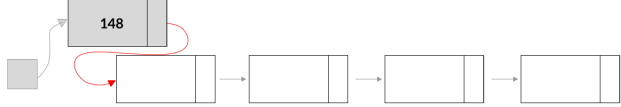
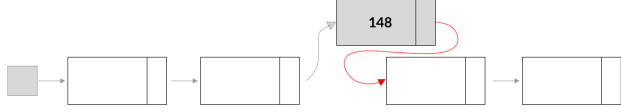

a.

Input description	Linked list diagram
<code>len(self) == 0, index == 0</code>	
<code>len(self) == 1, index == 0</code>	
<code>len(self) == 1, index == 1</code>	
<code>len(self) == 4, index == 0</code>	
<code>len(self) == 4, index == 2</code>	
<code>len(self) == 4, index == 4</code>	

b.

Input description	Linked list diagram
<code>len(self) == 0, index == 0</code>	
<code>len(self) == 1, index == 0</code>	
<code>len(self) == 1, index == 1</code>	
<code>len(self) == 4, index == 0</code>	
<code>len(self) == 4, index == 2</code>	
<code>len(self) == 4, index == 4</code>	

Correct Solution:

Input description	Linked list diagram
<code>len(self) == 0, index == 0</code>	
<code>len(self) == 1, index == 0</code>	
<code>len(self) == 1, index == 1</code>	
<code>len(self) == 4, index == 0</code>	
<code>len(self) == 4, index == 2</code>	
<code>len(self) == 4, index == 4</code>	

Question 2

- To reassign `self._first` to something new, `len(self)` can be value, but `index` has to be at 0.
- To make `insert` method to behave the same as `LinkedList.append`, `len(self)` can be any value, but `index = len(self) - 1`.

Correct Solution:

To make `insert` method to behave the same as `LinkedList.append`, `len(self)` can be any value, but `index = len(self)`.

Question 3