Week 5 Quiz: Linked Lists

Read the code for `insert_after`, a method of a `LinkedList`.

```python
def insert_after(self, marker: Any, item: Any) -> None:
    """Insert <item> after the first time <marker> occurs in this linked list.
    Precondition: <marker> is in this linked list.
    """
    curr = self._first
    while curr.item != marker:
        curr = curr.next
    insert = _Node(item)
    curr.next = insert
```

Answer the questions below about the following client code.

```python
>>> lst = LinkedList([1, 3, 2, 6])
>>> lst.insert_after(3, 4)
```

1. Unfortunately `insert_after` has a bug. Draw what `lst` looks like after the client code is run.

2. Draw what `lst` should look like after the client code is run.

3. Write a correct implementation of `insert_after` without using any other linked list methods.