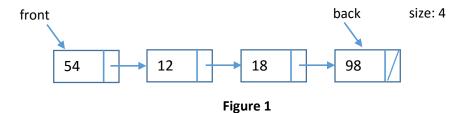
CSC148 Summer 2016 Quiz 04 (15 minutes)

First Name Lab room# Lab room#

Recall the LinkedListNode and LinkedList classes we discussed in lectures and the lab.

A linkedlist has 3 public attributes: **front**, **back**, and **size**. A linkedlist node has two public attributes: **value** and **next**.

1. Write partial code to modify the linked list demonstrated in Figure 1 to the one demonstrated in Figure 2. You can use any of the 5 attributes mentioned above; but, do not invoke any methods.



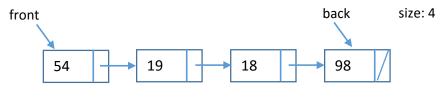


Figure 2

```
front.next_.value = 19
```

2. Write partial code to modify the linked list demonstrated in Figure 1 to the one demonstrated in Figure 3. You can use any of the 5 attributes mentioned above; but, do not invoke any methods.

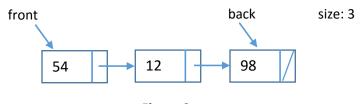


Figure 3

```
Solution 1:
    front.next_.next_ = back
    size -= 1
    Solution 2:
    front.next_.next_ = front.next_.next_.next_
    size -=1
```

3. Write partial code to modify the linked list demonstrated in Figure 1 to the one demonstrated in Figure 4. You can use any of the 5 attributes mentioned before; but, do not invoke any methods, except for the constructor of the LinkedListNode. Its signature is __init__(self, value, next_)

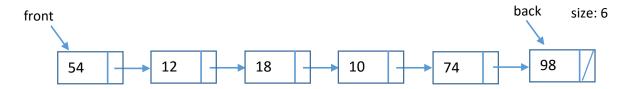


Figure 4

```
Solution 1:
front.next_.next_ = LinkedListNode(10, LinkedListNode(74, back))
size += 2

Solution 2:
node1 = LinkedListNode(74, back)
node2 = LinkedListNode(10, node1)
front.next_.next_.next_ = node2
size += 2
```