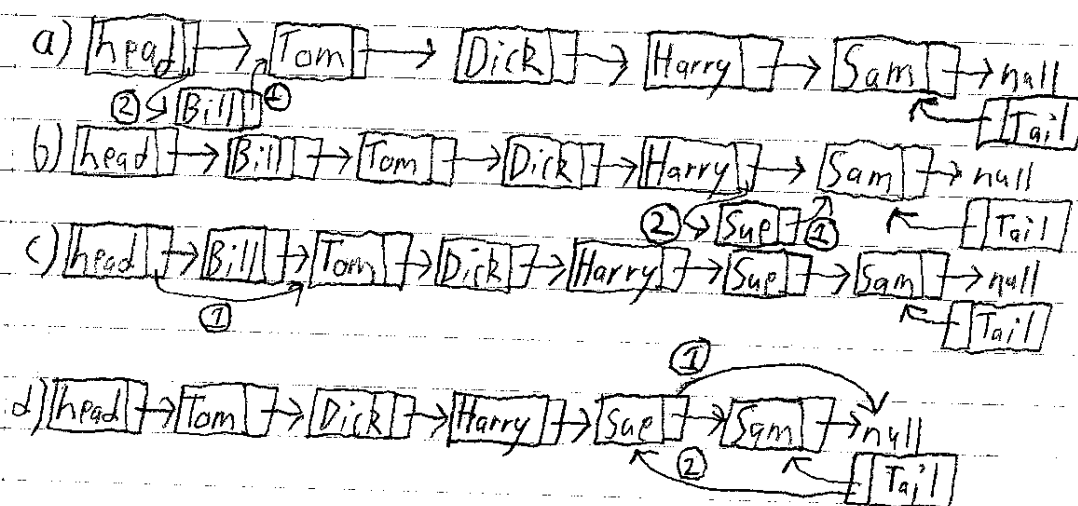Spencer Thompson
9/29/17
HW#3

Lab 6: Programming Exercise 2

a)

b)

c)

d)

Lab 6: Self-Check Exercises 1-5

1) $O(n)$

2) $O(n)$

3) addFront: $O(1)$ addBack: $O(n)$

4)

blank 1: head

blank 2: nodeRef.data

blank 3: nodeRef.next

5) a) adds "Shakira" to the front of the list and removes previous head.

b) nodeRef is assigned to the 2nd node and node 3 is deleted.

c) adds "Tamika" to the back of the list.

d) If "Harry" is not in the list, change tail data to "Sally" and add "Harry" to the back of the list.