

Self check

1. $O(N)$
2. $O(N)$
3. $O(N)$
4. Head, nodeRef.next, nodeRef.next
5. .
 - a. Initializes head
 - b. Moves nodeRef over one
 - c. Changes all data of nodes to "Tamika"
 - d. Changes all data of nodes to "Sally"

Programming 2.

figure 2.16

head ref to first node and tail ref to last node

original: head ==> Tom ==> Dick ==> Harry ==> Sam ==> null

a.....head !=> Tom ==> Dick ==> Harry ==> Sam ==> null

head ==> Bill

head ==> Bill ==> Tom ==> Dick ==> Harry ==> Sam ==> null

b.....head ==> Bill ==> Tom ==> Dick ==> Harry ==> Sam ==> null

Harry !=> Sam

Harry ==> Sue

Sue ==> Sam

head ==> Bill ==> Tom ==> Dick ==> Harry ==> Sue ==> Sam ==> null

c.....head ==> Bill ==> Tom ==> Dick ==> Harry ==> Sue ==> Sam ==> null

head !=> Bill

head ==> Tom

garbage collector picks up bill no reference to him

head ==> Tom ==> Dick ==> Harry ==> Sue ==> Sam ==> null

d.....head ==> Tom ==> Dick ==> Harry ==> Sue ==> Sam ==> null

Sue !=> Sam

Sue ==> null

garbage collector picks up Sam no reference to her

head ==> Tom ==> Dick ==> Harry ==> Sue ==> null