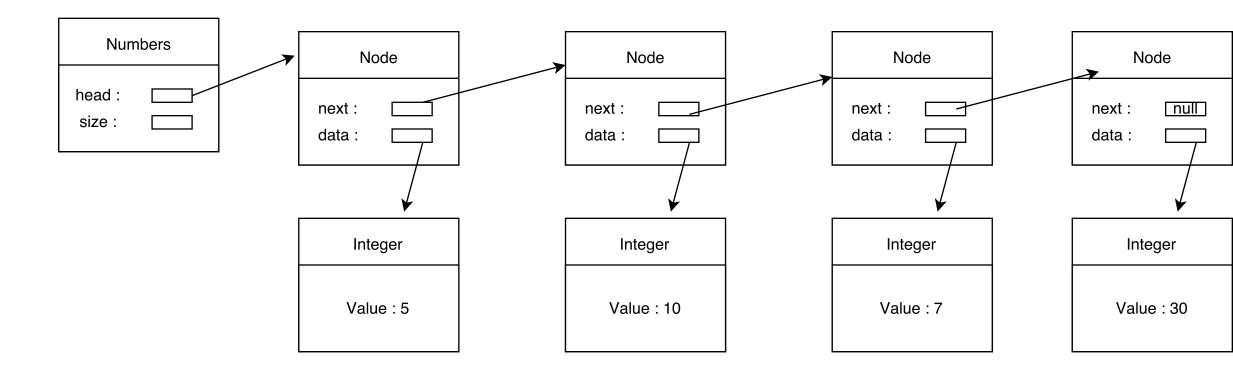
Self Check Exercises Section 2.5 Page 98

- 1) O(N) because it uses the getNode() method which has while loops used in it
- 2) O(N) also the same thing, it uses getNode() which uses while loop
- 3) addFirst() is O(c) constant addAfter() is O(c) constant as well add() is O(c) constant as well

4)



```
int sum = 0;
Node<Integer> nodeRef = head;
while(nodeRef!= null) {
  int next = nodeRef.data;
  sum +=next;
  nodeRef = nodeRef.next:
```

5)

- a. This line replaces the first node and makes new Node<String>("Shakira", head.next) the new head of the list
- b. it sets the third Node to be the fourth Node
- c. It adds the Node, new Node<String>("Tamika") to the end of the list
- d. changes the Node with String "Harry" to "Sally" and adds a Node with "Harry" after it.