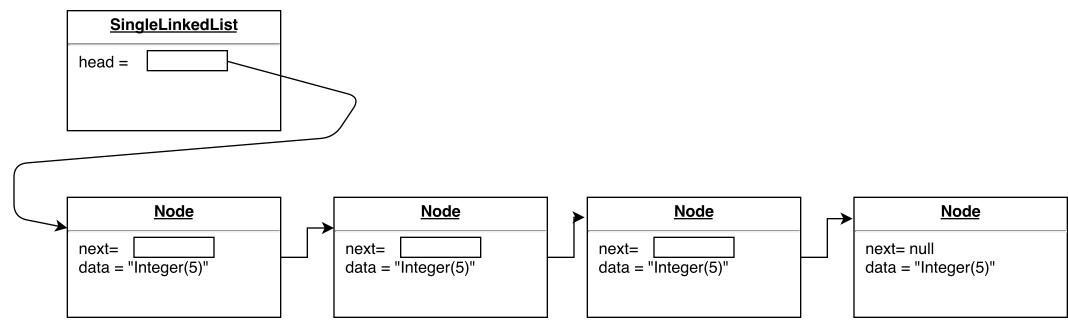
```
1)What is the big-O for the single-linked list get operation? O(N)
2)What is the Big -O for the set operation? (Single-linked list) O(N)
3)What is the big-O for each add method? add(E anEntry) - O(N) add (int index, E anEntry) - O(N)
```

Lab 6

4) Draw a single-linked list of Integer objects containing the integers 5, 10, 7, and 30 and referenced by a head. Complete the following fragment, which adds all Integer objects in a list. Your fragment should walk down the list, adding all integer values of sum.

```
int sum = 0;
Node<Integer> nodeRef = ____head____;
while(nodeRef != null){
   int next = ____nodeRef.data____;
   sum += next;
   nodeRef = ____nodeRef.next____;
}
```



- 5
- A) this adds a new first node to the linked list, sets head to reference the new node, and sets the new nodes "next" to the old first node.
- B) this sets nodeRef to the second node in the list, then it sets nodeRefs "next" to the 4th node in the list
- C) This sets nodeRef to the first node in the list, traverses the list until it reaches the last node in the list, then sets the lasts node to reference a new node with data "tamika". This essentially adds a new node to the end of the list.
- D)This sets nodeRef to the first node in the list, , then traverses through the list until it either reaches the end or finds a node with the data "Harry". if it reaches the end, the statement is over. if it finds a "harry", it will change that nodes data to "Sally" then add and link a new node after "Sally" called "Harry" and link that node to the next node. this essentially adds a "Sally" before a "Harry" if a "Harry" exists.