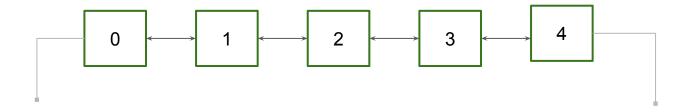
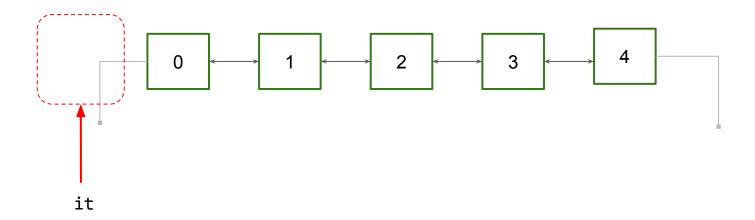
# ICS-211 Lab

Assignment 4

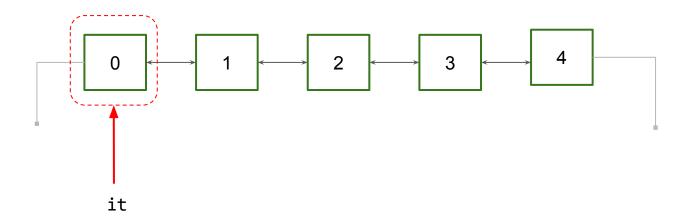
### Assignment 4

- Unit tests and ListIterator interface in "a4" directory
- Same tests can be used for array list (need to change MyLinkedList to MyArrayList)
- The iterator tests may expose bugs in your list implementations
- MyLinkedList and MyArrayList must implement the Iterable interface
  - Necessary for use with special for loop syntax
  - The iterator() method returns an instance of your ListIterator class
  - ListIterator class ideally a nested class (but could be implemented differently)

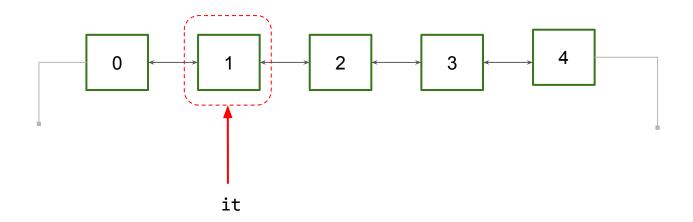




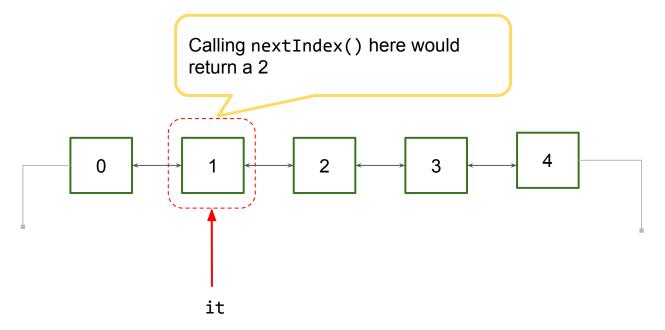
```
1. it = list.iterator(); // it.hasNext() == true
```



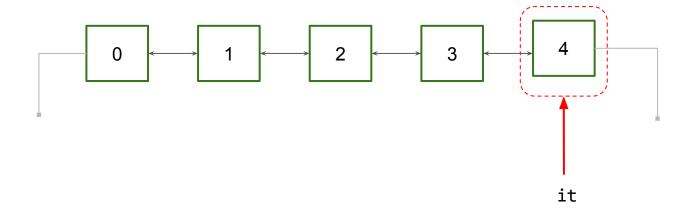
```
1. it = list.iterator(); // it.hasNext() == true
2. it.next(); // returns "0"
```



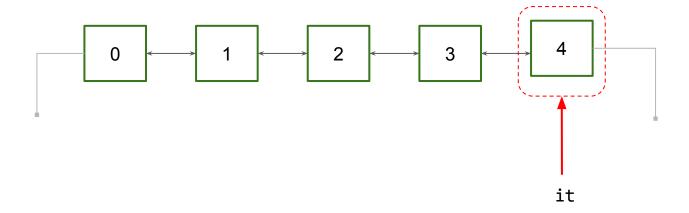
```
1. it = list.iterator();  // it.hasNext() == true
2. it.next();  // returns "0"
3. it.next();  // returns "1"
```



```
1. it = list.iterator();  // it.hasNext() == true
2. it.next();  // returns "0"
3. it.next();  // returns "1"
```

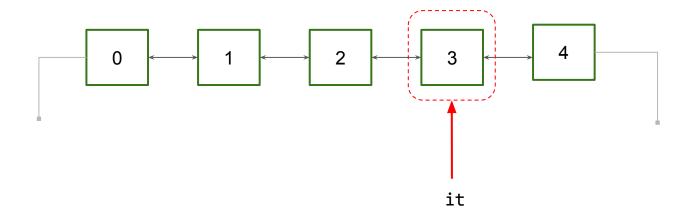


```
1. it = list.iterator(); // it.hasNext() == true
2. it.next(); // returns "0"
3. it.next(); // returns "1"
4. Keep going until "hasNext()" returns false
```



```
1. it = list.iterator(); // it.hasNext() == true
2. it.next(); // returns "0"
3. it.next(); // returns "1"
4. Keep going until "hasNext()" returns false
```

5. hasPrevious() should return true



```
1. it = list.iterator(); // it.hasNext() == true
2. it.next(); // returns "0"
3. it.next(); // returns "1"
4. Keep going until "hasNext()" returns false
5. hasPrevious() should return true
6. it.previous() // returns "3" ← this is important
```