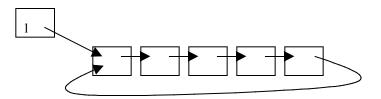
Circular Linked Lists

A circular linked list is one in which the last node points to the first node.



Note: if currentNode.next == 1, we are at the "last" node. I.e. if the list reference is the same as the current.next reference, then we are at the 'last' node of the list.

Printing all the nodes in a circular linked list

```
Static void printNode(ListNode list) {
    ListNode currentNode = list;

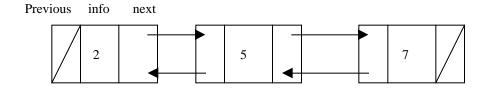
    If (list == null) {
        Return;
    }

    while (curentNode.next != list) {
            System.out.println(currentNode.info);
            currentNode = currentNode.next;
    }
    System.out.println(currentNode.info);
```

Applications of Circular Linked Lists

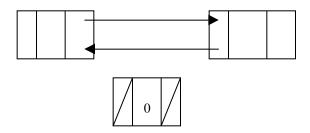
- polygon clipping
- round robin situations
- when you need to rotate the list, rather than the reference.

Doubly Linked Lists



Inserting into a Doubly Linked List

```
currentNode = ....  // whatever current node is
ListNode newNode = new ListNode();
```



newNode.info = 1; newNode.next = currentNode; newNode.previous = currentNode.previous; currentNode.previous.next = newNode; currentNode.previous = newNode; // setting the value of newNode

