

Name: _____ Date: _____

Doubly Linked List

In this assignment you will write a class `DoublyLinkedList` that implements a doubly Linked List. You should use your notes on Singly Linked List as a reference for completing this class.

```
class DoublyLinkedList {
    public Node head, tail;

    static class Node {

        int data;
        Node next, prev;

        Node(int d){
            data = d;
            next = null;
            Prev = null;
        }
    }

    // Create your constructor for your class
    public DoublyLinkedList(){

    }

    // This is the implementation of printing a Linked List taken
    // from singly linked list. This will still work the same.
    public static void printList(LinkedList list){
        Node currnode = list.head;

        while(currnode != null){
            System.out.println(currnode.data);
            currnode = currnode.next;
        }
    }
}
```

```

// insert data by creating a new node and placing it at the
// end of the list.
public static LinkedList insert(LinkedList list, int data){
    Node currnode = list.tail;

    return list;
}

// Looks for a key in the list and deletes the node containing
// first instance of that key.
public static LinkedList deleteKey(LinkedList list, int data){
    Node prevnode = null, currnode = list.head;

    return list;
}
}

```