public class Queue {

private ListNode front;

private ListNode rear;

private int length;

private class ListNode {

private int data; // Can be a generic type

private ListNode next; // Reference to next ListNode in list

public ListNode(int data) {

this.data = data;

this.next = null;

}

}

public Queue() {

front = null;

rear = null;

length = 0;

}

public int length() {

return length;

}

public boolean isEmpty() {

return length == 0;

}

}