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;

}

public void enqueue(int data) {

ListNode temp = new ListNode(data);

if(isEmpty()) {

front = temp;

} else {

rear.next = temp;

}

rear = temp;

length++;

}

public void print() {

if(isEmpty()) {

return;

}

ListNode current = front;

while(current != null) {

System.out.print(current.data + " --> ");

current = current.next;

}

System.out.println("null");

}

public static void main(String[] args) {

Queue queue = new Queue();

queue.enqueue(10);

queue.enqueue(15);

queue.enqueue(20);

queue.print();

}

}