Add Last In Linked List

Question

1. You are given a partially written LinkedList class.  
2. You are required to complete the body of addLast function. This function is supposed to add an element to the end of LinkedList. You are required to update head, tail and size as required.  
3. Input and Output is managed for you. Just update the code in addLast function.

Input Format

Input is managed for you

Output Format

Output is managed for you

Constraints

None

Sample Input

addLast 10  
addLast 20  
addLast 30  
addLast 40  
addLast 50  
quit

Sample Output

10  
20  
30  
40  
50  
5  
50

import java.io.\*;

import java.util.\*;

public class Main {

public static class Node {

int data;

Node next;

}

public static class LinkedList {

Node head;

Node tail;

int size;

void addLast(int val) {

Node temp=new Node();

temp.data=val;

temp.next=null;

if(head==null){

head=tail=temp;

}else{

tail.next=temp;

tail=temp;

}

size++;

}

}

public static void testList(LinkedList list) {

for (Node temp = list.head; temp != null; temp = temp.next) {

System.out.println(temp.data);

}

System.out.println(list.size);

if (list.size > 0) {

System.out.println(list.tail.data);

}

}

public static void main(String[] args) throws Exception {

BufferedReader br = new BufferedReader(new InputStreamReader(System.in));

LinkedList list = new LinkedList();

String str = br.readLine();

while(str.equals("quit") == false){

if(str.startsWith("addLast")){

int val = Integer.parseInt(str.split(" ")[1]);

list.addLast(val);

}

str = br.readLine();

}

testList(list);

}

}