C: > Users > YangYiShu > Desktop > lab > lab 5 > dc128280_yangyishu_lab 5.java > CircularlyLinkedList<E> > display()

```java
import java.lang.*;
class CircularlyLinkedList<E> {
    //... (nested node class identical to that of the SinglyLinkedList class)
    //…
    // instance variables of the CircularlyLinkedList
    private Node<E> tail = null; //we store tail (but not head)
    private int size = 0;
    public CircularlyLinkedList( ) { } //construct an initially empty list
    public int size( ) { return size; }
    public boolean isEmpty( ) { return size == 0; }

    public void rotate( ) { //rotate the first element to the back of the list
    if (tail != null) //if empty, do nothing
          tail = tail.getNext( ); //the old head becomes the new tail
    }

public void addFirst(E e) { //add element e to the front of the list
    if (size == 0) {
          tail = new Node<>(e, n: null);
          tail.setNext(tail); //link to itself circularly
       }
   else {
        Node<E> newest = new Node<>(e, tail.getNext( ));
        tail.setNext(newest);
     }
   size++;
 }
 public void addLast(E e) { //add element e to the end of the list
    addFirst(e); //insert new element at front of list
    tail = tail.getNext( ); //now new element becomes the tail
}
Run | Debug
public static void main(String[] args) {
    CircularlyLinkedList<Integer> list= new     CircularlyLinkedList<Integer>();
    list.addLast(e: 0);
    list.addLast(e: 1);
    list.addLast(e: 2);
    System.out.println(x: "Original List");
    list.display();
    CircularlyLinkedList<Integer> list2= new    CircularlyLinkedList<Integer>();
    list2.addFirst(e: 0);
    list2.addFirst(e: 1);
    list2.addFirst(e: 2);
    System.out.println(x: "Reverse List");
    list2.display();
    }
 public void display(){
    Node<E> n = tail;
    while(n != null){
      System.out.print(n.element+"\n");
      n = n.next;
      if(tail == n.next){
        break;
      }
    }
 }
private static class Node<E>{
    private E element;
    private Node<E> next;
    public Node(E e, Node<E> n){
        element = e;
        next = n;
      }
    public E getElement( ) { return element; }
    public Node<E> getNext( ) { return next; }
    public void setNext(Node<E> n) { next = n; }
    }
}
```

```
Windows PowerShell
版权所有（C） Microsoft Corporation。保留所有权利。

安装最新的 PowerShell，了解新功能和改进！ https://aka.ms/PSWindows

PS C:\Users\YangYiShu>  & 'C:\Program Files\Java\jdk-17.0.4.1\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\YangYiShu\AppData\Local\Temp
\vscodesws_3f739\jdt_ws\jdt.ls-java-project\bin' 'CircularlyLinkedList'
Original List
2
0
Reverse List
0
2
PS C:\Users\YangYiShu>
```