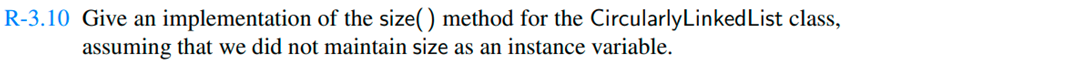
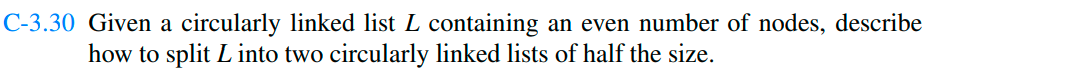
## Part 1

Answer only two questions from part 1

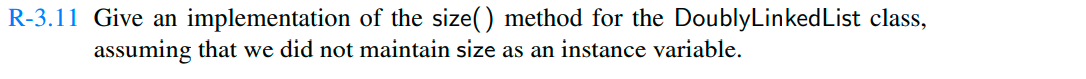


**public int** size(){  
 **if**(**tail**==**null**)**return** 0;  
 **if** (**tail**.getNext()==**tail**)**return** 1;  
 **int** a=1;  
 Node<E> head=**tail**.getNext();  
 **while** (head.getNext()!=**tail**.getNext()){  
 a++;  
 head=head.getNext();  
 }  
 **return** a;  
}

**public void** split(CircliyLinkedList c){  
 **if** (c.**size**%2!=0)**return**;  
 CircliyLinkedList c1=**new** CircliyLinkedList();  
 CircliyLinkedList c2=**new** CircliyLinkedList();  
 **int** n=c.**size**/2;  
 Node<E> head=**tail**.getNext();  
 **for** (**int** i = 0; i <n ; i++) {  
 E temp=head.getElement();  
 c1.addFirst(temp);  
 head=head.getNext();  
 }  
  
 **for** (**int** i = 0; i <n ; i++) {  
 E temp=head.getElement();  
 c2.addFirst(temp);  
 head=head.getNext();  
 }  
 System.***out***.println(**"c1="**);  
 **for** (**int** i = 0; i <n ; i++)  
 {  
 System.***out***.println(c1.first());  
 c1.rotate();  
 }  
 System.***out***.println(**"c2="**);  
 **for** (**int** i = 0; i <n ; i++)  
 {  
 System.***out***.println(c2.first());  
 c2.rotate();  
 }  
}

## Part 2

Answer only three questions of part 2





**public boolean** clone(DoublyLinkedList l1,DoublyLinkedList l2){  
 **if** (l1.isEmpety()){  
 System.***out***.println(**"list is empty"**);  
 **return false**;  
 }  
 Node<E> head=l1.**header**.getNext();  
 **int** n=l1.**siz**;  
 **for** (**int** i = 0; i <n ; i++) {  
 l2.addFirst(head.getElement());  
 head=head.getNext();  
 }  
 **return true**;  
}

**public int** size(){  
 **if** (**trailer**.getPrev()==**header**)**return** 8;  
 **int** a=1;  
 Node<E> head=**header**.getNext();  
 **while** (head.getNext()!=**trailer**){  
 a++;  
 head=head.getNext();  
 }  
 **return** a;  
}

**public boolean** equal(DoublyLinkedList l1,DoublyLinkedList l2){  
 **if** (l1.**siz**!=l2.**siz**)**return false**;  
 Node<E> headL1=l1.**header**.getNext();  
 Node<E> headL2=l2.**header**.getNext();  
 **int** n=l1.**siz**;  
 **for** (**int** i = 0; i < n; i++)  
 {  
 E fl1=headL1.getElement();  
 E fl2=headL2.getElement();  
 **if** (fl1!=fl2){  
 System.***out***.println(fl1+**" != "**+fl2);  
 **return false**;  
 }  
 System.***out***.println(fl1+**" = "**+fl2);  
 headL1=headL1.getNext();  
 headL2=headL2.getNext();  
 }  
 **return true**;  
}