```
class Node {
  constructor(data) {
    this.data = data;
    this.next = null;
class CircularLinkedList {
  constructor(data) {
    this.head = null;
  addLast(data) {
    const newNode = new Node(data);
    if (!this.head) {
      this.head = newNode;
      newNode.next = newNode;
      return;
    let current = this.head;
    while (current.next !== this.head) {
      current = current.next;
    current.next = newNode;
    newNode.next = this.head;
  size() {
    let count = 0;
    if (!this.head) {
     return count;
    let current = this.head;
      count++;
      current = current.next;
    } while (current !== this.head);
    return count;
  print() {
    if (!this.head) {
      return;
    let current = this.head;
      console.log(current.data);
      current = current.next;
    } while (current !== this.head);
  checkCircular() {
    if (!this.head) {
     return;
```

```
let count = this.size();
   let current = this.head;
   do {
     count--;
     current = current.next;
   } while (current !== this.head && count > 0);
   if (current !== this.head) {
     return false;
    return true;
  splitTwoHalf() {
   if (!this.head) {
     return null;
   let slow = this.head;
   let fast = this.head;
   while (fast.next !== this.head && fast.next.next !== this.head) {
     slow = slow.next;
     fast = fast.next.next;
   let secondHalfHead = slow.next;
   slow.next = this.head;
   if (fast.next.next === this.head) {
     fast = fast.next;
   fast.next = secondHalfHead;
    return { firstHalfHead: this.head, secondHalfHead: secondHalfHead };
function printCircularLinkedList(head) {
 if (!head) {
   console.log("List is empty");
   return;
 let current = head;
 do {
   console.log(current.data);
   current = current.next;
  } while (current !== head);
const linkedlist = new CircularLinkedList();
linkedlist.addLast(3);
linkedlist.addLast(13);
```

```
linkedlist.addLast(8);
linkedlist.addLast(10);

console.log("Size =====>", linkedlist.size());
linkedlist.print();
console.log(linkedlist.checkCircular());
const halves = linkedlist.splitTwoHalf();
console.log("First Half:");
printCircularLinkedList(halves.firstHalfHead);
console.log("Second Half:");
printCircularLinkedList(halves.secondHalfHead);
```