```
-----Link List-----
class Node{
 constructor(data, next=null){
  this.data = data;
  this.next = next;
class LinkedList {
 constructor(){
  this.head = null;
 }
 insertFisrt(data){
  this.head = new Node(data, this.head)
 }
 size(){
  let node = this.head;
  let counter=0;
  while(node){
   counter++;
   node = node.next;
  return counter;
 getFirst(){
  return this.head;
 getLast(){
    let node = this.head;
   while(node.next){
   node = node.next;
  return node;
 clear(){
  this.head = null;
 removeFirst(){
  if(!this.head){
   return;
  let removed = this.head;
  this.head = this.head.next;
  return 'removed data - ${removed.data}';
```

```
removeLast(){
 if(!this.head.next){
  this.head = null;
  return;
 let node = this.head;
 while(node.next.next){
  node=node.next;
 }
 node.next = node.next.next;
insertLast(data){
 if(!this.head){
  this.head = new Node(data);
 let node = this.head;
 while(node.next){
  node = node.next;
 node.next = new Node(data);
getAt(index){
 let node = this.head;
 let counter=0;
 while(node){
  if(counter === index){
   return node;
  counter++;
  node = node.next;
 return null;
removeAt(index){
 if(!this.head){
  return
 if(index === 0){
  this.head = this.head.next;
  return
 const previous = this.getAt(index - 1);
 if(!previous || !previous.next){
  return
 previous.next = previous.next.next;
```

```
insertAt(data,index){
  if(!this.head){
    this.head = new Node(data);
    return;
  }
  if(index === 0){
    this.head = new Node(data, this.head);
   return;
  }
  let previous = this.getAt(index-1);
  previous.next = new Node(data, previous.next);
 forEach(fn){
  let counter=0;
  let node = this.head;
  while(node){
    fn(node,counter);
    counter++;
    node=node.next;
  }
const list1 = new LinkedList();
list1.insertFisrt(4);
list1.insertFisrt(5);
list1.insertFisrt(6);
list1.insertFisrt(7);
list1.insertLast(3);
// console.log(list1)
console.log(list1.size())
// console.log(list1.getFirst())
// console.log(list1.getLast())
// console.log(list1.removeFirst())
// console.log(list1.removeLast())
// console.log(list1.insertLast(3))
// console.log(list1.getAt(2))
// console.log(list1.removeAt(2))
// console.log(list1.insertAt(101,2));
list1.forEach((node,index) => {
 node.data += 10;
});
console.log(list1.getLast())
console.log(list1.getFirst())
```