```
public class
            CAList <E> implements List <E> {
                                                                     public static void main(String[] args) {
                                                                       CALi st \leqI nt eger > a = new CALi st \leq\geq(30);
 E[] contents;
int size;
                                                                       System out. println(a);
int start;
                                                                       a. prepend(30);
                                                                       System out. println(a);
 @Suppress Warnings ("unchecked")
                                                                       a. add(40);
public CAList(int capacity) {
                                                                       System out. println(a);
   this. contents = (E[]) (new Object[capacity]);
                                                                       a. prepend(20);
                                                                       System out. println(a);
   t \text{ hi s. size} = 0;
   this.start = 0;
                                                                       a. add(70);
                                                                       System out. println(a);
private int indexFor(int index) {
   int ans = (this.start + index) % this.contents.length;
   System out.println("Index for " + index + " is " + ans);
   return ans;
 @Suppress Warnings ("unchecked")
private void expandCapacity() {
   int current Capacity = this. contents.length;
   if(this.size < current Capacity) { return; }
public E get(int index) {
  // ASSUME index is in bounds
   int toLookup = this.indexFor(index);
   return this.contents[toLookup];
public void prepend(E value) {
   expandCapacity();
   t his.size += 1;
   this.start -= 1;
   if (this.start == -1) {
     this.start = this.contents.length - 1;
   this.contents[this.start] = value;
public void add(E value) {
   expandCapacity();
   this.contents[this.indexFor(this.size)] = value;
   this.size += 1;
public String toString() {
  return java. util. Arrays. deepToString(this. contents);
public int size() {
  return this.size;
```