```
public class
                 CAList <E> implements List<E> {
  E[] contents;
  int size;
  int start;
   @SuppressWarnings("unchecked")
  public CAList (int capacity) {
     this.contents
                    = (E[])(new Object[capacity]);
     this.size
                = 0;
     this.start
                  = 0;
  private int
                  indexFor (int index) {
                              + index) %
     int ans = ( this.start
                                             this.contents.length
     System.out.println
                            ("Index for " + index + " is " +
                                                                       ans);
     return ans;
  }
   @SuppressWarnings("unchecked")
                   expandCapacity () {
  private void
     int currentCapacity
                              = this.contents.length
     if( this.size < currentCapacity
                                          ) { 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 ();
     this.size
                  += 1;
                  - = 1;
     this.start
     if ( this.start == -1) {
                                                   - 1;
       this.start
                     = this.contents.length
     this.contents
                      [ this.start
                                   ] = value;
  }
  public void add(E value) {
     expandCapacity ();
this.contents [ this.indexFor
                                        (this.size
                                                    )] = value;
               += 1;
     this.size
  public String
                    toString () {
     return java.util.Arrays.deepToString
                                                    (this.contents
  public int size() {
     return this.size ;
  public static void main(String[]
                                             args){
     CAList <Integer> a = new
                                    CAList <>(30);
     System.out.println
     a.prepend (30);
     System.out.println
                            (a);
     a.add (40);
     System.out.println
                            (a);
     a.prepend (20);
     System.out.println
                            (a);
     a.add (70);
     System.out.println
                            (a);
  }
}
```

	get(index)	add(val)	prepend(val)	remove(val)
AList				
CAList (front of sheet)				
LList				

class Node <t> { Node<t> next; Node<t> prev; T value; }</t></t></t>			