```
List<String> lst = new ArrayList<String>();
lst.add("a"); lst.add("b"); lst.add("c");
for(String s: lst) {
   System.out.println(s);
}
```

Interface List<E>

All Superinterfaces: Collection<E>, Iterable<E>

`public interface` **`Iterable<T>`**

Implementing this interface allows an object to be the target of the enhanced `for` statement (sometimes called the "for-each loop" statement).

Iterator<**T**>	**iterator**()	Returns an iterator over elements of type `T`.

`public interface` **`Iterator<E>`**

An iterator over a collection.

`boolean`	**hasNext**()	Returns `true` if the iteration has more elements.
E	**next**()	Returns the next element in the iteration.

```
class AList<E> implements List<E>, Iterable<E> {
  class AListIterator implements Iterator<E> {









  }

  E[] elements;
  int size;

  @SuppressWarnings("unchecked")
  public AList() {
    this.elements = (E[])(new Object[2]);
    this.size = 0;
  }

  public Iterator<E> iterator() {




  }

  public void add(E s) {
    expandCapacity();
    this.elements[this.size] = s;
    this.size += 1;
  }

  public int size() {
    return this.size;
  }

  /* ... set, expandCapacity omitted ... */

}
```

```
List<String> lst = new ArrayList<String>();
lst.add("a"); lst.add("b"); lst.add("c");
while(lst.hasNext()) {
  String s = lst.next();
  System.out.println(s);
}
```

```
List<String> lst = new ArrayList<String>();
lst.add("a"); lst.add("b"); lst.add("c");
Iterable<String> iter = lst.iterator();
while(iter.hasNext()) {
  String s = iter.next();
  System.out.println(s);
}
```

```
List<String> lst = new ArrayList<String>();
lst.add("a"); lst.add("b"); lst.add("c");
Iterator<String> iter = lst.iterator();
while(iter.hasNext()) {
  String s = iter.next();
  System.out.println(s);
}
```

```
public E next() {
  E answer = elements[this.currentIndex];
  this.currentIndex += 1;
  return answer;
}
```

```
public E next() {
  this.currentIndex += 1;
  return elements[this.currentIndex];
}
```

```
public E next() {
  return elements[this.currentIndex];
}
```