Collections class

Method name	Description
binarySearch(list, value)	returns the index of the given value in a sorted list (< 0 if not found)
copy(listTo, listFrom)	copies listFrom 's elements to listTo
<pre>emptyList(), emptyMap(), emptySet()</pre>	returns a read-only collection of the given type that has no elements
fill(list, value)	sets every element in the list to have the given value
max(collection), min(collection)	returns largest/smallest element
replaceAll(list, old, new)	replaces an element value with another
reverse(list)	reverses the order of a list's elements
shuffle(list)	arranges elements into a random order
sort(list)	arranges elements into ascending order

The compareTo method (10.2)

- The standard way for a Java class to define a comparison function for its objects is to define a compareTo method.
 - Example: in the String class, there is a method: public int compareTo(String other)

```
• A call of A.compareTo(B) will return:
```

```
    a value < 0 if A comes "before" B in the ordering,</li>
    a value > 0 if A comes "after" B in the ordering,
    if A and B are considered "equal" in the ordering.
```

Comparable (10.2)

```
public interface Comparable<E> {
    public int compareTo(E other);
}
```

- A class can implement the Comparable interface to define a natural ordering function for its objects.
- A call to your compareTo method should return:
 a value < 0 if the this object comes "before" other one,
 a value > 0 if the this object comes "after" other one,
 o if the this object is considered "equal" to other.