19.3 (*Distinct elements in* **ArrayList**) Write the following method that returns a new **ArrayList**. The new list contains the non-duplicate elements from the original list.

```
public static <E> ArrayList<E> removeDuplicates(ArrayList<E> list)
```

19.4 (*Generic linear search*) Implement the following generic method for linear search.

```
public static <E extends Comparable<E>>
  int linearSearch(E[] list, E key)
```

19.5 (*Maximum element in an array*) Implement the following method that returns the maximum element in an array.

```
public static <E extends Comparable<E>> E max(E[] list)
```

19.6 (*Maximum element in a two-dimensional array*) Write a generic method that returns the maximum element in a two-dimensional array.

```
public static <E extends Comparable<E>> E max(E[][] list)
```

19.7 (*Generic binary search*) Implement the following method using binary search.

```
public static <E extends Comparable<E>>
  int binarySearch(E[] list, E key)
```