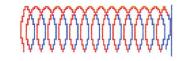
```
ArrayList
Doubles when reaches full capacity
 "capacity" is the ability to store "size" is the ability to actually store
                                                     plane example
                                                  copacity == seats
                                                     Size == plane
When Size == capacity, automatically jets double capacity
AcrayList & String > a = new AcrayList & String > (4);
O 1 Z 3
NC SE VA MGA
O 1 2 3 Technically GA
NC TH GA FLE capacity 3
                            size 4
exactly unique deep copy 0 1 2 3 4 5 6 7 capacity 8
NC TH GA FL FL
Output: 5
       NC, TH, GA, FL, FL
```

Using the ArrayList Class in Java



Method Name	Parameter Type	Returns	Operation Performed
ArrayList	(none)		Constructs an empty array list of capacity 10.
ArrayList	int		Constructs an empty array list of the capacity indicated by the parameter.
add	int,Object	void	Inserts the specified Object at the specified position; shifts all subsequent elements to the right one place.
add	Object	void	Inserts the specified Object at the end.
ensureCapacity	int	void	Increases the capacity of the array list to at least the specified capacity, if it is currently less than the specified capacity.
get	int	Object	Returns the element at the specified position.
isEmpty	(none)	boolean	Returns true if the array list is empty, false otherwise.
remove	int	Object	Removes the element at the speci- fied position, shifts all subsequent elements to the left one place, and returns the removed element.
size	(none)	int	Returns current size.
trimToSize	(none)	void	Trims the capacity of the array list to its size.

```
import java.util.*;
public class arrayList
        public static void main(String[] args)
             ArrayList<String> a = new ArrayList<String>(4);
                 a.add("NC");
                 a.add("SC");
                 a.add("GA");
                 a.add(2, "VA");
a.set(1, "TN");
                 a.remove(a.indexOf("VA"));
                 a.add("FL");
                 a.add(a.get(a.size()-1));
                 System.out.println(a.size());
                 for (int i = 0; i < a.size(); i++)
                         System.out.print(a.get(i) + " ");
                 System.out.println();
                Object[] myArray = a.toArray();
                 for (int i = 0; i < myArray.length; i++)</pre>
                         System.out.print(myArray[i]+ " ");
                 System.out.println();
```

All classes (inherent)

and default

to String(),

equals() and I supercla

close() from this of all of