

ArrayList

ArrayList is a dynamic array. It is a resizable array which automatically grows on adding elements and shrinks on removing elements.

```
import java.util.ArrayList;  
ArrayList<WrapperClassName> variableName = new ArrayList<>(initial_capacity);
```

Method	Functionality
.add()	adds an element to the end/specified index of the list
.remove()	removes the element at the specified index of the list/specified element
.get()	returns the element at the specified index
.set(index,value)	updates the element at the specified index
.contains()	returns true if the list contains the specified element
.indexOf()	returns the index of the first occurrence of the specified element
.size()	returns the size of the list

Internal working

When the arraylist fills upto a particular capacity, a new list about double the size of the existing list is created. All the elements are copied into the new list and the old list is deleted from the memory.