ArrayList in Java

* It provides the functionality of a dynamic array where the size is not fixed as an array.
* It is part of the Collections framework, it has many features not available with arrays.

| ArrayList arr = new ArrayList();  ArrayList arr = new ArrayList(c);//c – Collection object  ArrayList arr = new ArrayList(N);//N – int - initial capacity | |
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| **Method** | **Description** |
| [add(int index, Object element)](https://www.geeksforgeeks.org/java-util-arraylist-add-method-java) | This method is used to insert a specific element at a specific position index in a list. |
| [add(Object o)](https://www.geeksforgeeks.org/java-util-arraylist-add-method-java) | This method is used to append a specific element to the end of a list. |
| [clear()](https://www.geeksforgeeks.org/arraylist-clear-java-examples) | This method is used to remove all the elements from any list. |
| [contains? (Object o)](https://www.geeksforgeeks.org/arraylist-contains-java) | Returns true if this list contains the specified element. |
| [get?(int index)](https://www.geeksforgeeks.org/arraylist-get-method-java-examples) | Returns the element at the specified position in this list. |
| [indexOf(Object O)](https://www.geeksforgeeks.org/java-util-arraylist-indexof-java) | The index the first occurrence of a specific element is either returned or -1 in case the element is not in the list. |
| [isEmpty?()](https://www.geeksforgeeks.org/arraylist-isempty-java-example) | Returns true if this list contains no elements. |
| [lastIndexOf(Object O)](https://www.geeksforgeeks.org/arraylist-lastindexof-java-example) | The index of the last occurrence of a specific element is either returned or -1 in case the element is not in the list. |
| [remove?(int index)](https://www.geeksforgeeks.org/arraylist-linkedlist-remove-methods-java-examples) | Removes the element at the specified position in this list. |
| [remove? (Object o)](https://www.geeksforgeeks.org/arraylist-linkedlist-remove-methods-java-examples) | Removes the first occurrence of the specified element from this list, if it is present. |
| [removeRange?(int fromIndex, int toIndex)](https://www.geeksforgeeks.org/arraylist-removerange-java-examples) | Removes from this list all of the elements whose index is between fromIndex, inclusive, and toIndex, exclusive. |
| [set?(int index, E element)](https://www.geeksforgeeks.org/arraylist-set-method-in-java-with-examples) | Replaces the element at the specified position in this list with the specified element. |
| [size?()](https://www.geeksforgeeks.org/arraylist-size-method-in-java-with-examples) | Returns the number of elements in this list. |
| [toArray()](https://www.geeksforgeeks.org/arraylist-array-conversion-java-toarray-methods) | This method is used to return an array containing all of the elements in the list in the correct order. |