

How to remove repeated elements from ArrayList?

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In this tutorial we will learn **how to remove duplicates from ArrayList**. The steps followed in the below example are:

- 1) Copying all the elements of ArrayList to LinkedHashSet. Why we choose LinkedHashSet? Because it removes duplicates and maintains the insertion order.
- 2) Emptying the ArrayList
- 3) Copying all the elements of LinkedHashSet(non-duplicate elements) to the ArrayList. Please find below the complete code.

Example: Removing duplicates from List

```
import java.util.ArrayList;
import java.util.List;
import java.util.LinkedHashSet;
public class RemoveDuplicates {

    public static void main(String[] args) {

        /* Creating ArrayList of Strings and adding
        * elements to it
        */
        List<String> al = new ArrayList<String>();
        al.add("Ajay");
        al.add("Becky");
        al.add("Chaitanya");
        al.add("Ajay");
        al.add("Rock");
        al.add("Becky");

        // Displaying ArrayList elements
        System.out.println("Before:");
        System.out.println("ArrayList contains: "+al);

        // Creating LinkedHashSet
        LinkedHashSet<String> lhs = new LinkedHashSet<String>();

        /* Adding ArrayList elements to the LinkedHashSet
        * in order to remove the duplicate elements and
        * to preserve the insertion order.
        */
        lhs.addAll(al);

        // Removing ArrayList elements
        al.clear();

        // Adding LinkedHashSet elements to the ArrayList
        al.addAll(lhs);
    }
}
```

```
// Displaying ArrayList elements
System.out.println("After:");
System.out.println("ArrayList contains: "+al);
}
}
```

Output:

```
Before:
ArrayList contains: [Ajay, Becky, Chaitanya, Ajay, Rock, Becky]
After:
ArrayList contains: [Ajay, Becky, Chaitanya, Rock]
```

As you can see that the duplicates have been removed from the list and the insertion order is being preserved in the output.