

JAVA.UTIL.ARRAYLIST.REMOVE METHOD

http://www.tutorialspoint.com/java/util/arraylist_remove.htm

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Description

The **java.util.ArrayList.remove***intindex* method removes the element at the specified position in this list. Shifts any subsequent elements to the left *subtracts one from their indices*.

Declaration

Following is the declaration for **java.util.ArrayList.remove** method

```
public E remove(int index)
```

Parameters

- **index** -- The index of the element to be removed .

Return Value

This method returns the element that was removed from the list .

Exception

- **IndexOutOfBoundsException** -- if the index is out of range.

Example

The following example shows the usage of java.util.ArrayList.remove*index* method.

```
package com.tutorialspoint;

import java.util.ArrayList;

public class ArrayListDemo {
    public static void main(String[] args) {

        // create an empty array list with an initial capacity
        ArrayList<Integer> arrlist = new ArrayList<Integer>(5);

        // use add() method to add elements in the deque
        arrlist.add(20);
        arrlist.add(15);
        arrlist.add(30);
        arrlist.add(45);

        System.out.println("Size of list: " + arrlist.size());

        // let us print all the elements available in list
        for (Integer number : arrlist) {
            System.out.println("Number = " + number);
        }

        // Removes element at 3rd position
        arrlist.remove(2);

        System.out.println("Now, Size of list: " + arrlist.size());

        // let us print all the elements available in list
        for (Integer number : arrlist) {
            System.out.println("Number = " + number);
        }
    }
}
```

Let us compile and run the above program, this will produce the following result:

```
Size of list: 4  
Number = 20  
Number = 15  
Number = 30  
Number = 45  
Now, Size of list: 3  
Number = 20  
Number = 15  
Number = 45
```

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