





Root interface – Collection (2)	
 Primary methods operating in bulk from another collection public boolean containsAll(Collection coll) public boolean addAll(Collection coll) Returns true if any addition succeeds public boolean removeAll(Collection coll) Returns true if any removal succeeds public boolean retainAll(Collection coll) Removes from the collection all elements that are not elements of coll public void clear() Remove all elements from this collection 	
 The SDK does NOT provide any direct implementations of the Collection interface Most of the actual collection types implement this interface, usually by implementing an extended interface such as Set or List This interface is typically used to pass collections around and manipulate them where maximum generality is desired. 	



<u>clas</u>	sical routine of using iterator:	
publi max }	<pre>ic void removeLongStrings (Collection coll, int xLen) { Iterator it = coll.iterator(); while (it.hasNext()) { String str = (String)it.next(); if (str.length() > maxLen) it.remove() } }</pre>	







```
import java.util.*;
public class IteratorTest2 {
    public static void main (String args[]) {
        ArrayList a = new ArrayList();
        a.add("1");
        a.add("2");
        a.add("3");
        Iterator it = a.iterator();
        a.add("4");
        while(it.hasNext()) {
            String s = (String)(it.next());
            System.out.println(s);
        }
    }
    %> javac IteratorTest2.java
%> java IteratorTest2
Exception in thread "main" java.util.ConcurrentModificationException
```

















