Table 10.1 Basic ArrayList Methods

Method	Description	ArrayList <string> example</string>
add(value)	adds the given value at the end of the list	list.add("end");
add(index, value)	adds the given value at the given index, shifting subsequent values right	<pre>list.add(1, "middle");</pre>
clear()	removes all elements from the list	list.clear();
get(index)	gets the value at the given index	list.get(1)
remove(index)	removes the value at the given index, shifting subsequent values left	<pre>list.remove(1);</pre>
set(index, value)	replaces the value at the given index with the given value	<pre>list.set(2, "hello");</pre>
size()	returns the current number of elements in the list	list.size()

 Table 11.4
 Common Set Operations, Given Two Sets A and B

Method	Description
addAll	Set of all elements that are in A, B, or both
retainAll	Set of all elements that are in both A and B
removeAll	Set of all elements that are in A but not in B
containsAll	Returns true if A is a superset of (contains al
	elements of) B
	addAll retainAll removeAll

Table 11.5 Useful Methods of Maps

Method	Description	
clear()	Removes all keys and values from a map	
containsKey(key)	Returns true if the given key maps to some value in this map	
containsValue(value)	Returns true if some key maps to the given value in this map	
get(key)	Returns the value associated with this key, or null if not found	
isEmpty()	Returns true if this collection contains no keys or values	
keySet()	Returns a Set of all keys in this map	
<pre>put(key, value)</pre>	Associates the given key with the given value	
<pre>putAll(map)</pre>	Adds all key/value mappings from the given map to this map	
remove(key)	Removes the given key and its associated value from this map	
size()	Returns the number of key/value mappings in this map	
values()	Returns a Collection of all values in this map	