







java.util.Iterator (an interface)

public boolean hasNext ();

Returns true if the iteration has more elements

public Object next (); Returns the next element in the iteration; throws NoSuchElementException if no next element

public void remove (); The element most-recently returned by next() is removed from the collection; can throw IllegalStateException if next() not yet used or if remove() already called

Additional Methods of Collection public Object [] toArray (); Returns a new array containing all the elements of this collection public Object [] toArray (Object [] dest); Returns an array containing all the elements of this collection; uses dest as that array if it can Bulk Operations: public boolean containsAll (Collection c); public boolean retainAll (Collection c); public void clear ();

java.util.Set (an interface)

- Set extends Collection
 Set has no methods of its own, but it inherits the methods from Collection
- A Set contains no duplicates
 - If you attempt to add() an element twice then the second add() will return false (i.e., the Set has not changed)
- Write a method that checks if a given word is within a Set of words
- Write a method that removes all words longer than 5 letters from a Set
- Write methods for the union and intersection of two Sets

