```
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                                          List.java
                                                                              Page 1/2
// spécification du type List<E>
// E est le type des éléments de la liste
public interface List<E>
 // Opérations élémentaires
 // Returns the number of elements in this list.
 int
               0170():
  // Returns true if this list contains no elements.
               isEmpty();
 boolean
  // Returns true if this list contains the specified element.
               contains(E element);
 boolean
 // Appends the specified element to the end of this list.
               add(E element);
 boolean
 // Removes the first occurrence of the specified element from this list, if
 // it is present.
 boolean
               remove(E element);
 // opérations "de masse"
 // Returns true if this list contains all of the elements of the specified
  // collection.
 boolean
               containsAll(Collection<E> c);
 // Appends all of the elements in the specified collection to the end of
 // this list, in the order that they are returned by the specified
 // collection's iterator.
               addAll(Collection<E> c);
 boolean
 // Removes from this list all of its elements that are contained in the
 // specified collection.
 boolean
               removeAll(Collection<E> c);
 // Retains only the elements in this list that are contained in the
 // specified collection.
 boolean
               retainAll(Collection<E> c);
 // Removes all of the elements from this list.
 void
               clear();
 // itération
 // Returns an iterator over the elements in this list.
 Iterator<E>
                       iterator();
  // Returns a list iterator over the elements in this list.
 ListIterator<E>
                   listIterator();
 // Returns a list iterator over the elements in this list, starting at the
 // specified position in the list.
 ListIterator<E>
                      listIterator(int index);
```



```
// autres opérations spécifiques liste
// méthodes à accès direct
// Returns the element at the specified position in this list.
             get(int index);
// Replaces the element at the specified position in this list with the
// specified element.
             set(int index, E element);
// Returns the index of the first occurrence of the specified element in
// this list, or -1 if this list does not contain the element.
             indexOf(E element);
// Returns the index of the last occurrence of the specified element in this
// list, or -1 if this list does not contain the element.
             lastIndexOf(E element);
// Inserts the specified element at the specified position in this list.
              add(int index, E element);
// Inserts all of the elements in the specified collection into this list at
// the specified position.
boolean
             addAll(int index, Collection<E> c);
// Removes the element at the specified position in this list.
             remove(int index);
```

```
Iterator.java,ListIterator.java
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                                                                               Page 1/1
// spécification du type Iterator<E>
// E est le type des éléments de la collection à parcourir
public interface | terator<E> {
 // Returns true if the iteration has more elements.
 boolean
               hasNext();
  // Returns the next element in the iteration.
       next();
 // Removes from the underlying collection the last element returned by this
 // iterator.
 void remove();
// spécification du type ListIterator<E>
// E est le type des éléments de la collection à parcourir
public interface ListIterator<E> {
 // Returns true if this list iterator has more elements when traversing the
 // list in the forward direction.
 boolean
               hasNext();
  // Returns the next element in the list and advances the cursor position.
       next();
 // Returns true if this list iterator has more elements when traversing the
 // list in the reverse direction.
               hasPrevious();
 boolean
 // Returns the previous element in the list and moves the cursor position
 // backwards.
       previous();
 // modification de la liste
 // Inserts the specified element into the list.
 void add(E e);
 // Replaces the last element returned by next() or previous() with the
 // specified element.
 void set(E e);
 // Removes from the list the last element that was returned by next() or
 // previous().
 void remove();
 // opérations avec indice
 // Returns the index of the element that would be returned by a subsequent
 // call to next().
 int nextIndex();
 // Returns the index of the element that would be returned by a subsequent
 // call to previous().
 int previousIndex();
```

```
Set.iava
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                                                                               Page 1/1
// spécification du type Set<E>
// E est le type des éléments de l'ensemble
public interface Set<E>
 // Opérations élémentaires
  // Returns the number of elements in this set (its cardinality).
 int size();
  // Returns true if this set contains no elements.
               isEmptv();
 boolean
  // Returns true if this set contains the specified element.
  boolean
               contains(E element);
  // Adds the specified element to this set if it is not already present
 boolean
               add(E element);
  // Removes the specified element from this set if it is present
  boolean
               remove(E element);
  // opérations "de masse"
  // Returns true if this set contains all of the elements of the specified
  // collection.
  boolean
               containsAll(Collection<E> c);
  // Adds all of the elements in the specified collection to this set if
  // they're not already present.
               addAll(Collection<E> c);
  boolean
  // Removes from this set all of its elements that are contained in the
  // specified collection.
              removeAll(Collection<E> c);
  boolean
  // Retains only the elements in this set that are contained in the specified
  // collection.
  boolean
               retainAll(Collection<E> c);
  // Removes all of the elements from this set (optional operation).
  void clear();
 // itération
  // Returns an iterator over the elements in this set.
 Iterator<E> iterator();
```

```
Dec 08, 10 9:14 Queue.java Page 1/1

// spécification du type Queue<E>
// E est le type des éléments de la file

public interface Queue<E> {
```

```
// Opérations élémentaires
// Returns the number of elements in this queue.
int
              size();
// Returns true if this queue contains no elements.
              isEmpty();
boolean
// Inserts the specified element into this queue if it is possible to do so
// immediately without violating capacity restrictions.
// Returns true if the element was added to this queue, else false
              offer(E e);
// Retrieves, but does not remove, the head of this queue, or returns null
// if this queue is empty.
      peek();
// Retrieves and removes the head of this queue, or returns null if this
// queue is empty.
      poll();
// Removes all of the elements from this queue.
void
              clear();
// itération
// Returns an iterator over the elements in this queue.
Iterator<E>
                      iterator();
```

Map.java,Map.Entry.java

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```
// spécification du type Map<K, V>
// K est le type des clés
// V est le type des valeurs
public interface Map <K, V>
 // Associates the specified value with the specified kev in this map
  // (optional operation).
       put(K key, V value);
 // Returns the value to which the specified key is mapped, or null if this
  // map contains no mapping for the key.
       get(K kev);
  // Removes the mapping for a key from this map if it is present (optional
  // operation).
       remove(K key);
  // Returns true if this map contains a mapping for the specified key.
               containsKey(K key);
  // Returns true if this map maps one or more keys to the specified value.
               containsValue(V value);
 boolean
  // Returns the number of key-value mappings in this map.
  int size();
  // Returns true if this map contains no key-value mappings.
 boolean
               isEmpty();
  // Removes all of the mappings from this map (optional operation).
 void clear();
  // Returns a Set view of the keys contained in this map.
 Set<K>
               kevSet();
 // Returns a Collection view of the values contained in this map.
 Collection<V>
                       values();
  // Returns a Set view of the mappings contained in this map.
 Set<Map.Entry<K,V>> entrySet();
public interface Map.Entrv<K.V> {
  // Returns the key corresponding to this entry.
       getKey();
  // Returns the value corresponding to this entry.
       getValue();
  // Replaces the value corresponding to this entry with the specified value.
       setValue(V value);
```

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