Java Collections Hierarchy Relationships Enumerated with Abstract Classes

Collections

Collection interface extends Iterable Interface and is the root of the collections hierarchy.

List and Set interfaces extend Collection interface

AbstractCollection class implements Collection interface

AbstractList class extends AbstractCollection class and implements List interface

AbstractSet class extends AbstractCollection class and implements Set interface

ArrayList class extends AbstractList class and implements List and RandomAccess interfaces

AbstractSequentialList class extends AbstractList class and implements List interface

LinkedList class extends AbstractSequentialList class and implements List interface

AbstractSet class extends AbstractCollection class and implements Collection interface

HashSet class extends AbstractSet class and implements Set interface

SortedSet interface extends Set interface

TreeSet class implements SortedSet class

Maps

Map interface is the root of the map hierarchy

AbstractMap class implements Map interface

HashMap class extends AbstractMap class and implements Map interface

SortedMap interface extends Map

TreeMap class implements SortMap interface