

Collection Frameworks Comparison

List

ArrayList	LinkedList
Manipulation slow	Manipulation fast
Acts as List	Acts as List and Queue
Permits null	Permits null
Not Synchronized	Not Synchronized

Set

HashSet	TreeSet	LinkedHashSet
Fast	Slow	Nearly As fast as HashSet
No order	Sorted Order	Insertion order
Implemented using HashMap	Implemented using TreeMap	Implemented using HashTable and LinkedList
Not thread safe	Not thread safe	Not thread safe
Permits null	Does not permit null	Permits null

Map

HashTable	HashMap	LinkedHashMap	TreeMap
	Implemented using Hash table	Implemented using Hash table and linked list	Tree based implementation
No order	No ordering on keys or values	Insertion order	Sorting order
Synchronized	Not synchronized	Not synchronized	Not synchronized