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Java Collections

List: A list is an ordered collection of elements.

	Add	Remove	Get	Contains	Data Structure
ArrayList	O (1)	O (n)	O (1)	O (n)	Array
LinkedList	O (1)	O (1)	O (n)	O (n)	Linked List
CopyonWriteArrayList	O (n)	O (n)	O (1)	O (n)	Array

Set: A collection that contains no duplicate elements.

	Add	Contains	Next	Data Structure
HashSet	O(1)	O(1)	O(h/n)	Hash Table
LinkedHashSet	O(1)	O(1)	O(1)	Hash Table + Linked List
EnumSet	O(1)	O(1)	O(1)	Bit Vector
TreeSet	O(log n)	O(log n)	O(log n)	Red-black tree
CopyonWriteArraySet	O(n)	O(n)	O(1)	Array
ConcurrentSkipList	O(log n)	O(log n)	O(1)	Skip List

Queue: A collection designed for holding elements prior to processing.

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ArrayBlockingQueue	O(1)	O(1)	O(1)	O(1)	Array
PriorirityBlockingQueue	O(log n)	O(1)	O(log n)	O(1)	Priority Heap
SynchronousQueue	O(1)	O(1)	O(1)	O(1)	None
DelayQueue	O(log n)	O(1)	O(log n)	O(1)	Priority Heap
LinkedBlockingQueue	O(1)	O(1)	O(1)	O(1)	Linked List

Map: An object that maps keys to values.

A map cannot duplicate keys; each key can map to at most one value

	Get	ContainsKey	Next	Data Structure
HashMap	O(1)	O(1)	O(h / n)	Hash Table
LinkedHashMap	O(1)	O(1)	O(1)	Hash Table + Linked List
IdentityHashMap	O(1)	O(1)	O(h / n)	Array
WeakHashMap	O(1)	O(1)	O(h / n)	Hash Table
EnumMap	O(1)	O(1)	O(1)	Array
TreeMap	O(log n)	O(log n)	O(log n)	Red-black tree
ConcurrentHashMap	O(1)	O(1)	O(h / n)	Hash Tables
ConcurrentSkipListMap	O(log n)	O(log n)	O(1)	Skip List

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