| List implementations: | get | add | contains | next | remove(0) | iterator.remove |
|---|---|---|---|---|---|---|
| ArrayList | O(1) | O(1) | O(n) | O(1) | O(n) | O(n) |
| LinkedList | O(n) | O(1) | O(n) | O(1) | O(1) | O(1) |
| CopyOnWrite-ArrayList | O(1) | O(n) | O(n) | O(1) | O(n) | O(n) |
| | | | | | | |
| Set implementations: | | add | contains | next | Notes | |
| HashSet | | O(1) | O(1) | O(h/n) | h is the table capacity | |
| LinkedHashSet | | O(1) | O(1) | O(1) | | |
| CopyOnWriteArraySet | | O(n) | O(n) | O(1) | | |
| EnumSet | | O(1) | O(1) | O(1) | | |
| TreeSet | | O(log n) | O(log n) | O(log n) | | |
| ConcurrentSkipListSet | | O(log n) | O(log n) | O(1) | | |
| | | | | | | |
| Map implementations: | get | | containsKey | next | Notes | |
| HashMap | O(1) | | O(1) | O(h/n) | h is the table capacity | |
| LinkedHashMap | O(1) | | O(1) | O(1) | | |
| IdentityHashMap | O(1) | | O(1) | O(h/n) | h is the table capacity | |
| EnumMap | O(1) | | O(1) | O(1) | | |
| TreeMap | O(log n) | | O(log n) | O(log n) | | |
| ConcurrentHashMap | O(1) | | O(1) | O(h/n) | h is the table capacity | |
| ConcurrentSkipListMap | O(log n) | | O(log n) | O(1) | | |
| | | | | | | |
| Queue implementations: | offer | peek | poll | size | | |
| PriorityQueue | O(log n) | O(1) | O(log n) | O(1) | | |
| ConcurrentLinkedQueue | O(1) | O(1) | O(1) | O(n) | | |
| ArrayBlockingQueue | O(1) | O(1) | O(1) | O(1) | | |
| LinkedBlockingQueue | O(1) | O(1) | O(1) | O(1) | | |
| PriorityBlockingQueue | O(log n) | O(1) | O(log n) | O(1) | | |
| DelayQueue | O(log n) | O(1) | O(log n) | O(1) | | |
| LinkedList | O(1) | O(1) | O(1) | O(1) | | |
| ArrayDeque | O(1) | O(1) | O(1) | O(1) | | |
| LinkedBlockingDeque | O(1) | O(1) | O(1) | O(1) | | |