

# Lesson Notes: 06/02/2026

## Collections

A more complete list of implementations can be found at  
<https://docs.oracle.com/javase/tutorial/collections/implementations/index.html>.

Implementation	Resizable	Ordered*	Unique Items	Interface(s)	Comments
<a href="#">ArrayList</a>	Yes	Yes	No	List	Most commonly used List implementation gives fast access to items
<a href="#">HashSet</a>	Yes	No	Yes	Set	Wraps a HashMap to provide fast performance but can't guarantee the order of its items
<a href="#">LinkedList</a>	Yes	Yes	No	Deque, List, Queue	Similar in outcome to ArrayList but makes adding and deleting items more efficient - implemented as a doubly-linked list
<a href="#">ArrayDeque</a>	Yes	Yes	No	Deque, Queue	'Deque' is Double ended queue - this is recommended for implementing the Queue and the Stack data structures

\* An ordered collection means that the items in the collection stay in the order that they were added or according to a specific ordering mechanism.

HashSet, on the other hand, which is an un-ordered collection, cannot guarantee the order of items.