Wednesday, September 27, 2017 8:50 PM

collection - a group of objects

Some Interfaces that implement Collection

- List
 - Has order, so we can access elements by their index.
 - o Typically allows duplicates
- Set
 - Does not allow duplicate values
 - Has no guarantee of order, so we cannot access elements by their index
- Queue
 - Typically first in first out (not always since there are priority queues)
- Deque
 - o Extends the functionality of Queue
 - o Allows access on both ends, not just one end

ArrayList	LinkedList
1) ArrayList internally uses dynamic array to store the elements.	LinkedList internally uses doubly linked list to store the elements.
2) Manipulation with ArrayList is slow because it internally uses array. If any element is removed from the array, all the bits are shifted in memory.	Manipulation with LinkedList is faster than ArrayList because it uses doubly linked list so no bit shifting is required in memory.
3) ArrayList class can act as a list only because it implements List only.	LinkedList class can act as a list and queue both because it implements List and Deque interfaces.
4) ArrayList is better for storing and accessing data.	LinkedList is better for manipulating data.

From < https://www.javatpoint.com/difference-between-arraylist-and-linkedlist >

Map

- Key-value pairs
- No duplicate keys
- Does not implement Collection interface