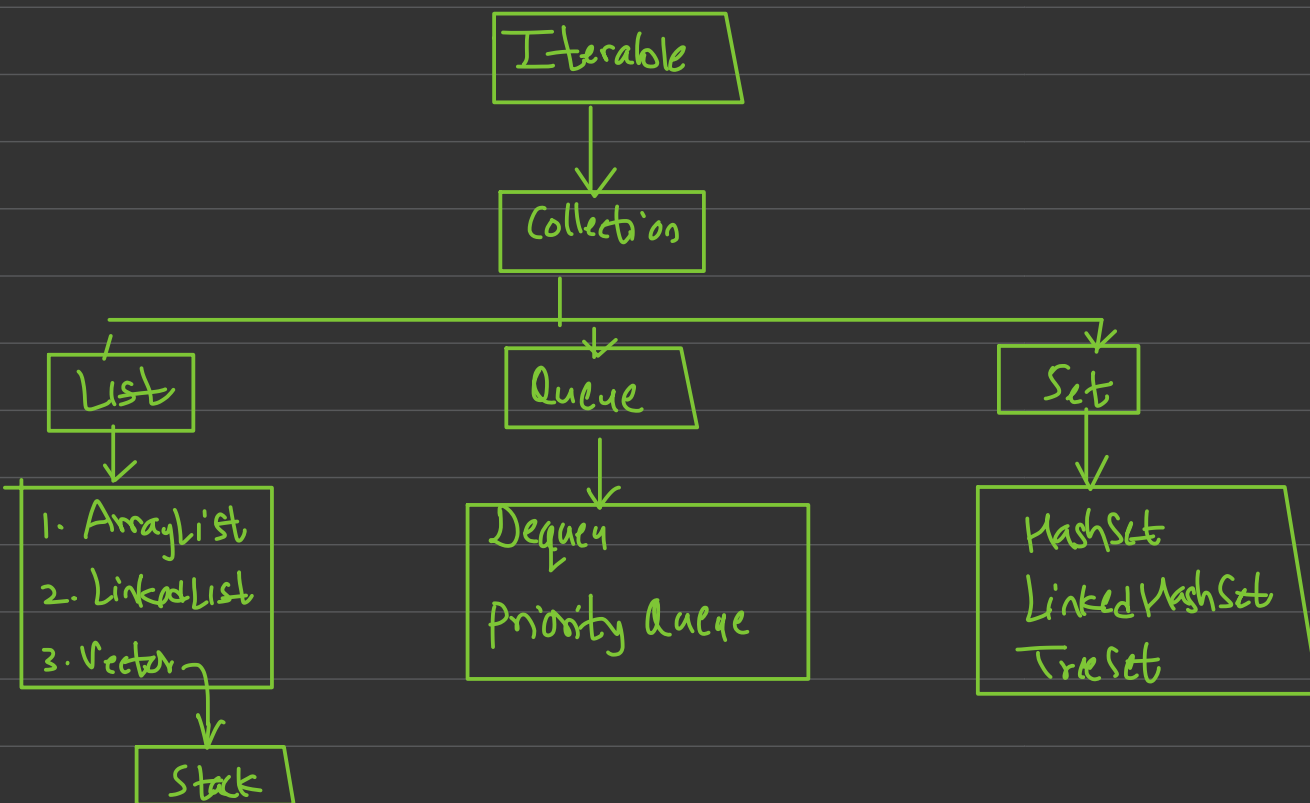Collection Class

Framework -> store and manipulate group of objects
> searching, sorting, insertion, manipulation and deletion..

Java Collection framework: Set. List, Queue, Duque, ArrayList, Vector, LinkedList, PriorityQueue, HashSet, Trees.

Collection: represents a single unit of objects i.e. group

To   instantiate   List interface, we do!

List int l1 = new ArrayList();

List int l2 = new LinkedList();

List int l3 = new Vector();

List int l4 = new Stack();

Linked List:

Array:

a

0	1	2	3	4
10	20	30	40	50

112 116   120 124 128

Insert 15 b/w 10 & 25 i.e. insert at index 1

a

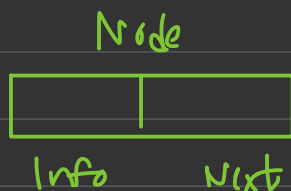| 0	1	2	3	4	5
10	15	20	30	40	50

for (i= 4; i>=1; i++)
a[i+1] = a[i]

Delete 20 i.e. element at index 2

for(i=2; i< a.length; i++)
a[i] = a[i+1]

Linked List

Node

Info   Next

RAM

Begin

10	1476A →		26	5096 →		80	1024 →		40	11238 →		56	Null

20976 .... 1476A .... 5096 .... 1024 11238