Collections:

It is growable in nature.

1. List 🡺 Interfaces
2. Duplicates are allowed
3. Null values are allowed
4. Insertion order.

* ArrayList 🡪 implantation class of list

1. Whenever you want to fetch data from the list it is best choice 🡺 Random Access Interface
2. You should not use when adding and deleting data at the middle of list.
3. By default size is 10.
4. Threshold/load factor 🡺 75%/0.75 🡺 new capacity = current capacity \*3/2+1
5. Asynchronous

1,2,3,4,5,11,6,7,8,9,10

* LinkedList

1. Whenever you have addition and deletion of data in the middle of list, you can use linkedlist
2. You should not use when you want fetch the data from list.

* Vector 🡺 Synchronous 🡺 size is 10 🡺threashold 75%==> new capacity = current capacity \* 2

1. Set 🡺 Interfaces

* HashSet
* TreeSet
* LinkedHashSet

1. Map 🡺 Interfaces

* HashMap
* LinkedHashMap
* TreeMap

ConcurrentHashMap:

Diagram

Description automatically generated