

Collections Framework

- List
 - ◆ Maintains insertion order
 - ◆ Allows duplicate values
 - ◆ Null values allowed
 - Set
 - ◆ Doesn't allow duplicate values
 - ◆ Doesn't maintain insertion order.
 - ◆ One Null Value allowed.(Except for treeSet)
 - Map
 - ◆ Stores data in key value format
 - ◆ Key is unique
 - ◆ One null key and multiple null values allowed
- ***Tree type data structure doesn't allow null values because it internally uses compareTo() for comparing values which returns NPE on comparing will null whereas other data structures uses equals() for comparison which doesn't throw NPE.***
- ArrayList
 - ◆ Best for traversing.
 - ◆ Default size = 10
 - ◆ Size increases by $n + (n/2) + 1$ on exceeding the size.
 - ◆ Not thread safe.
 - LinkedList
 - ◆ Best for insert, update, delete.
 - ◆