Collections

29 September 2024   22:04

① Collections → group of objects
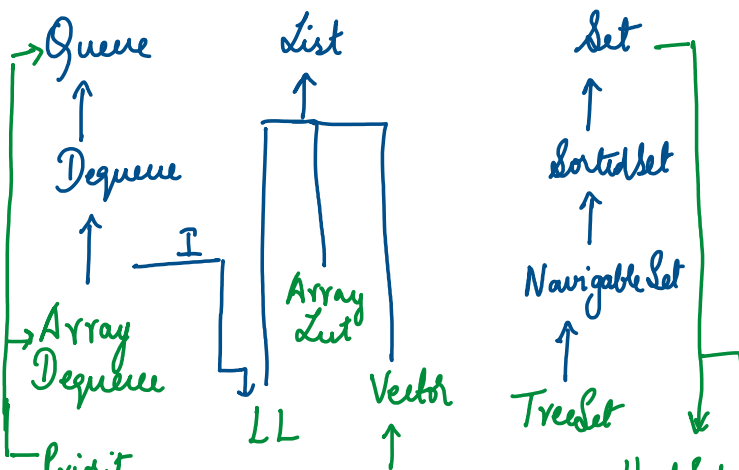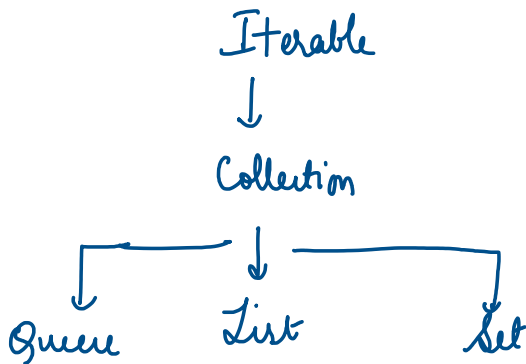
↓

Java. util

Framework → provides the architecture to manage these group of objects.

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② Why do we need JCF

Provides common interface with common methods for collections, since its difficult to remember methods.

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③ JCF Hierarchy

Iterable
↓
Collection

Queue   List   Set

Queue   List   Set

Dequeue   ↑   SortedSet

↑   ↑   ↑

Array   Navigable Set

Array   Array
Dequeue   List   ↑

    LL   Vector   TreeSet

Priority
Queue   Stark   HashSet

                                     LinkedList

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④ Iterable →) Traverse thru collection

iterator ()

├─) hasNext ( )
├─) next ( )
└─) remove ( )

forEach ( ) — Iterate collection using
                Lambda expression.

Refer code repo

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⑤ Collection v/s Collections

Collection : It's an interface which
provides methods to work on group of
objects.

It's an interface which is implemented
by ArrayList, Deque , LL , Stacks etc

    Provides common methods

i) size( )

ii) isEmpty( )

iii) contains ( )

iv) toArray( )

v) add(), remove() etc.

vi) Stream

vii) Iterator

Collections :- It is a utility class to work
on collection.

It provides methods like sort, reverse,
binarysearch etc.

All methods are static.

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