

COLLECTIONS IN JAVA

- Collections group together multiple objects in one containing object
- they MUST contain objects, NOT primitives
- 3 MAIN TYPES = List, Map, Set
- These types are interfaces
 - we must instantiate an actual object of a type that implements one of these
- List → LinkedList, ArrayList
- Map → HashMap, TreeMap
- Set → HashSet, TreeSet

LISTS → Ordered
NOT Sorted | Iterable

ALL Collections are typed

MAP → NOT ordered | VERY fast access time
NOT sorted (some have sorted keys)
NOT iterable

SET → NO duplicates allowed!
NOT ordered
NOT all are sorted | Iterable

"SUBTYPES" OF LIST

STACK — LIFO Last In, First Out

↳ there IS a Stack object, BUT it's deprecated

QUEUE — FIFO First In, First Out

DEQUEUE — Double-Ended Queue

↳ this gives Lists Stack functionality

SPECIAL TYPE

PRIORITYQUEUE — This is NOT internally sorted,
but elements EXIT in order

— natural sort order OR your custom order