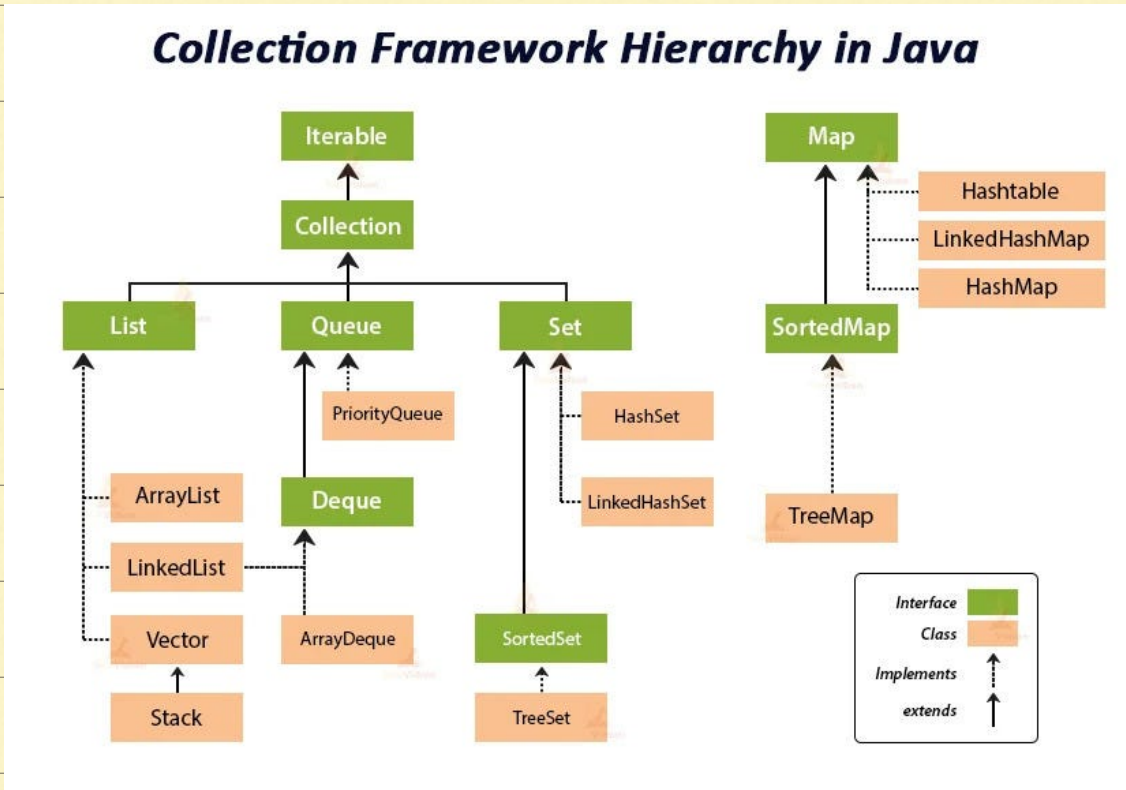
Agenda:

- The collections framework
- comparable and comparator

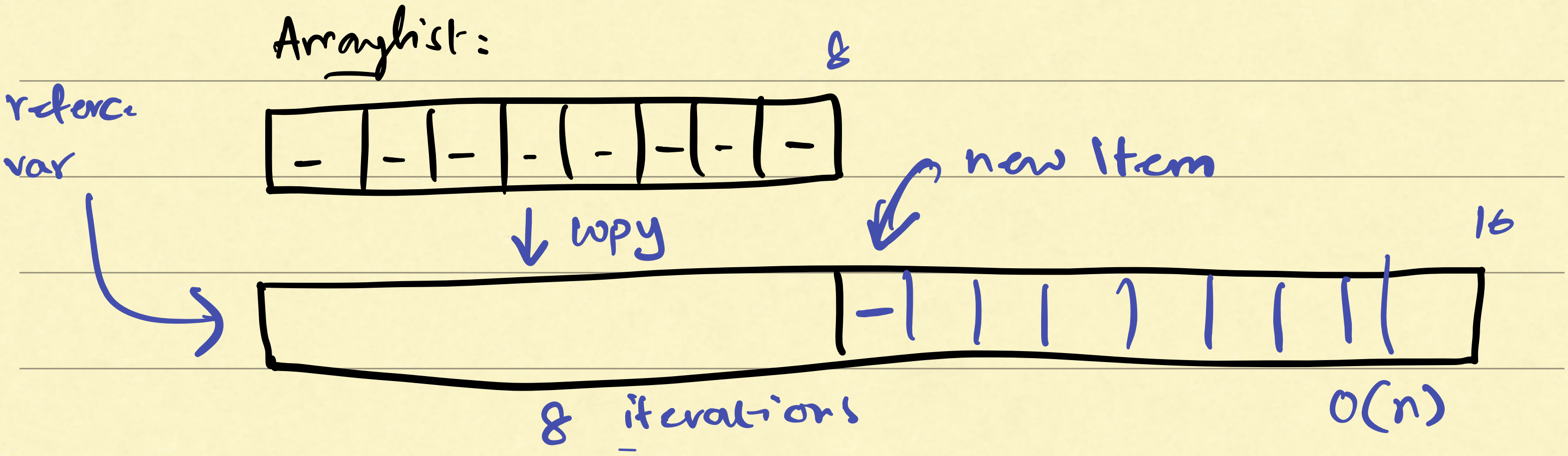
collections → a store of items

A collection is containing of interface, classes and algorithms to provide implementation of common Data Structures.



Collection Framework Hierarchy in Java

Arraylist:



8 insert ops → 1 extra iteration

Insertion is O(1) ?

↳ Amortized O(1)

HashMap & HashSet

key	values
"Akash"	10
"Sam"	7

hm.add("Akash", 10);

→ unique / no duplicates are allowed.

"Akash"	new Object()
"Sam"	new Object()

→ HashSet

contains()

↓

Hashmap's containsKey

add(E e)

↓

hm.add(e, new Object());

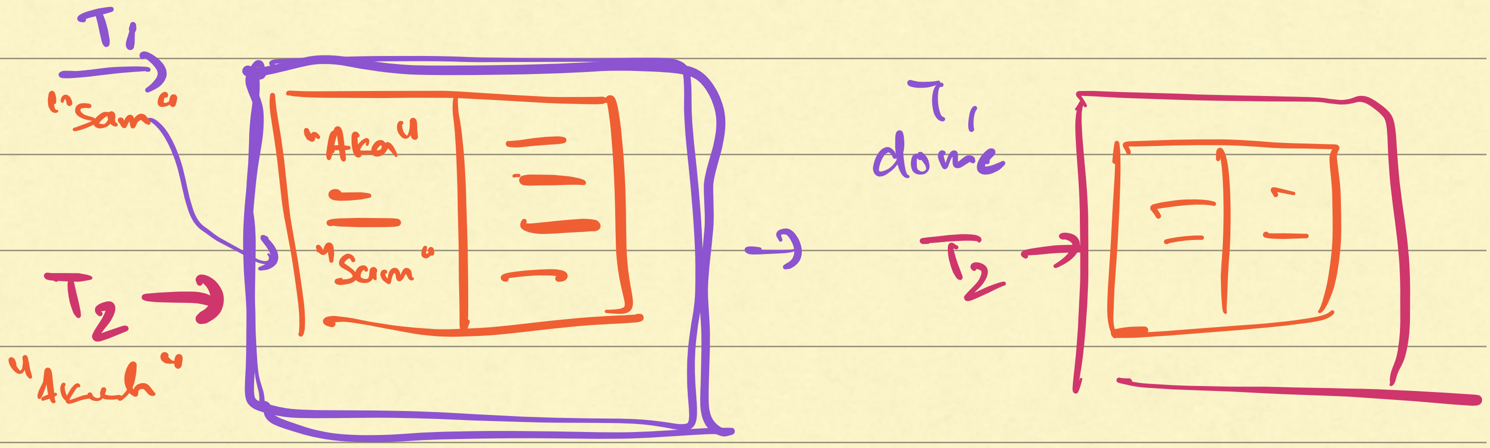
print

hm.keys()

HashTable vs Hash Map

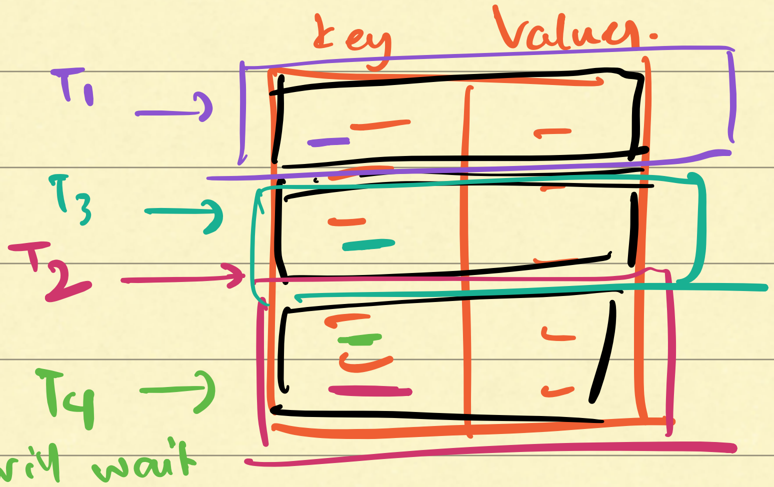
- synchronised.

- Not synchronised



Concurrent Hash Map ?

↳ segment locking.



will wait till T_2 is done.