

Collection Framework : →

① ArrayList & LinkedList

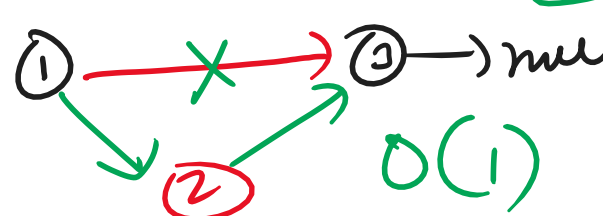
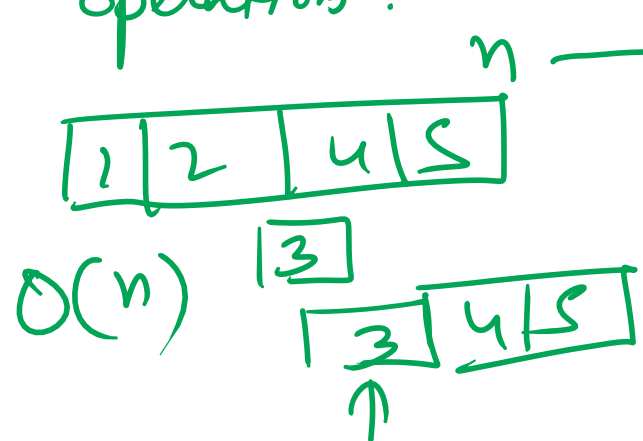
Package  
java.util

- \* Has a built-in array
- \* Good for search operations.

- \* Has a built-in linked list
- \* Good for insert operations

They only accept Wrapper Classes.

Primitive not allowed!



- \* Mutable w String Buffer & String Builder

- \* Immutable String Class

- \* Which one of these two is more efficient. Istrate by giving a practical example.

[ Builder is more efficient for larger manipulations Takes less time. ]  
[ In C++ → auto ]

Iterator : It is an interface in Java used to traverse over all the data structures in the Collections Framework.

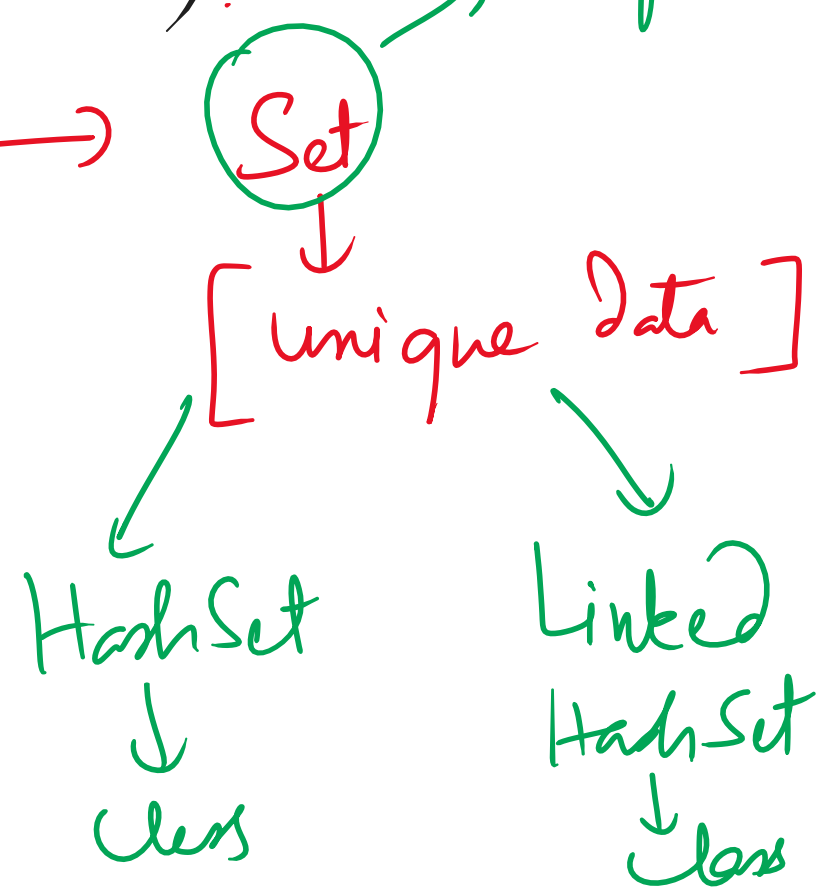
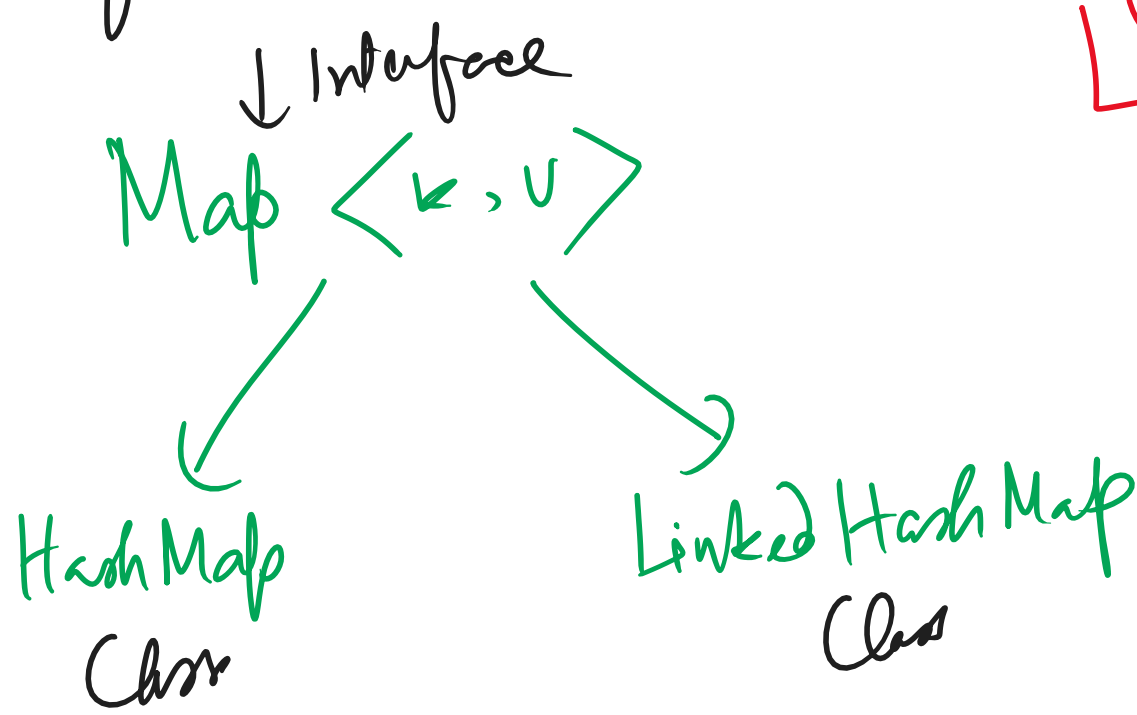
iterator(); hasNext();

- \* Write a Java program to remove items from a collection using the Iterator Interface based on certain given conditions.

[ 12, 2, 9, 13, 11, 4, 6 ]  
ArrayList

- ① remove num < 10
- ② remove num > 10

- \* Write a Java Program to remove Duplicates from a collection ( ArrayList ).



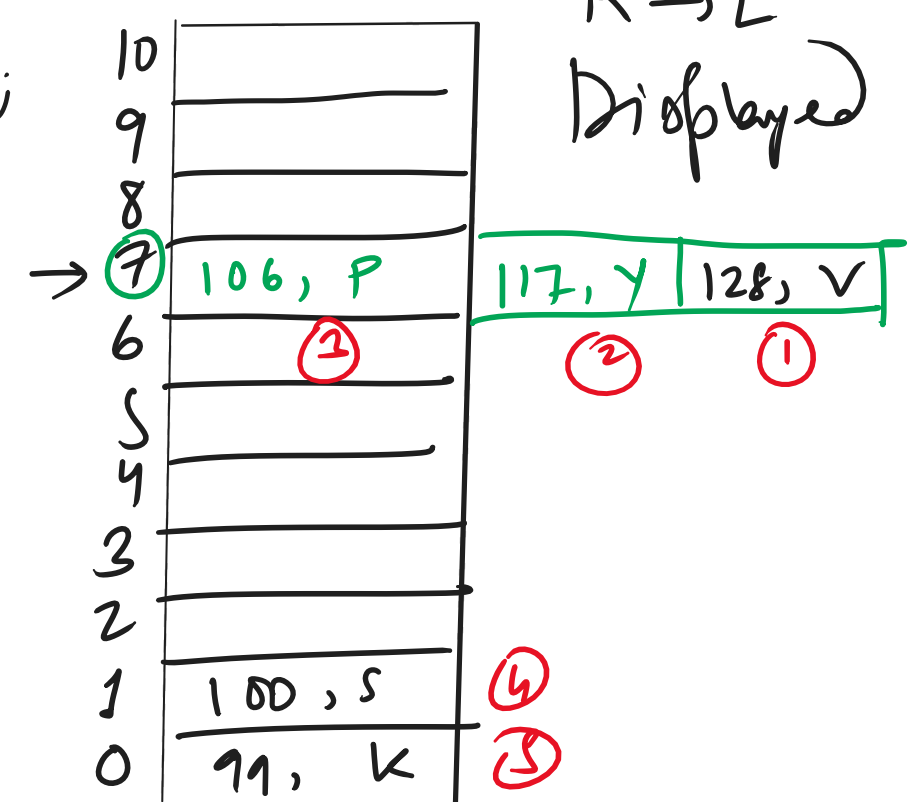
⑦.75 HashTable <K, V> → java.util

Initial Load Factor: (75%) → (Array of Lists) Initial size is 11

Hash Collision T → B R → L Displayed

HashTable <Integer, String> ht = new HashTable<>();

ht.put ( 106, "Pratham" );  
ht.put ( 117, "Yathin" );  
ht.put ( 128, "Vishakh" );  
ht.put ( 100, "Sagar" );  
ht.put ( 99, "Kamal" );



[ Priority Queue → Heaps ]  
[ Degree ]