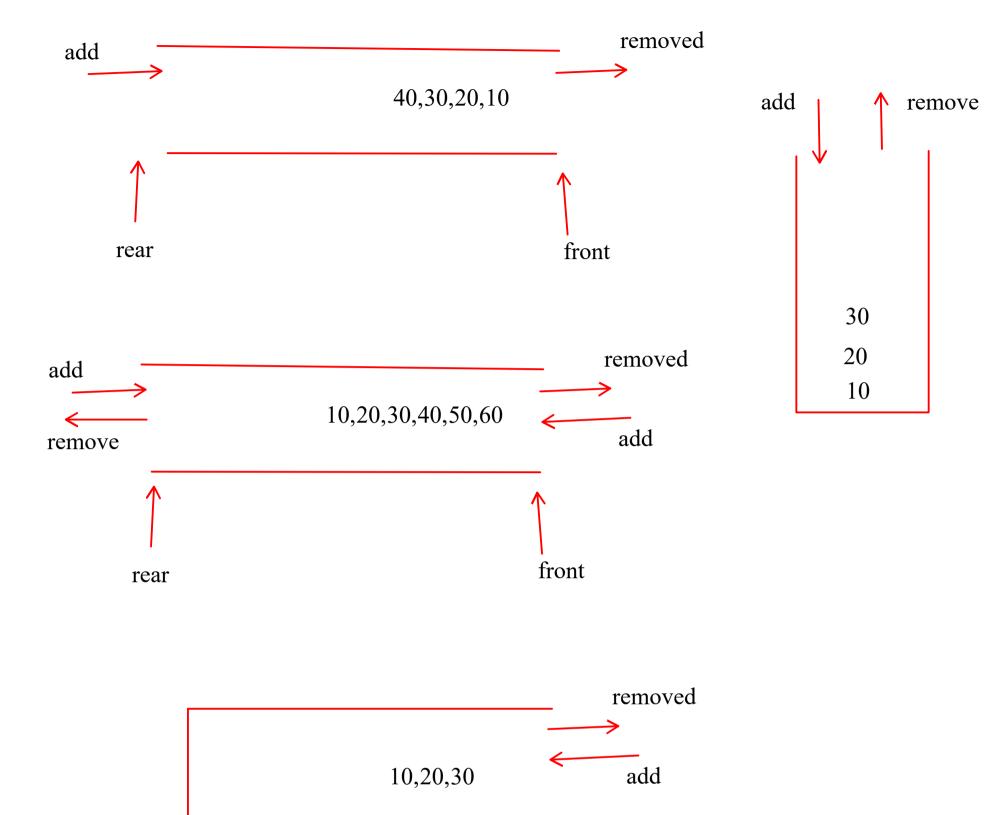
```
interface Collection<T>{
  Generics
                                               void add(T element);
  Bounded and unbounded
                                               boolean remove();
  Comparable comparator
  Iterator
Comparable<T>{
                                         class ArrayList<T> impl Coll{    class LinkedList<T>{
int compareTo(Employee obj);
                                         T [] arr;
                                                                        T [] arr;
                                         @Override
                                                                        void add(T element){
                                         void add(T element){
                                                                        //
Comparator<T>{
int compare(T o1, T o2);
     class Employee{
     class Product implements Comparable<Product>,Comparator<Employee>{
     int compareTo(Product p){
     }
     int compare(Employee o1, Employee o2){
    LinkedList<Integer> 11= new LinkedList<Integer>;
    LinkedList<String>11= new LinkedList<String>;
    LinkedList<Number> 11= new LinkedList<Integer>;// NOT OK
    LinkedList<? extends Number> 11= new LinkedList<Integer>;// OK
   Iterator<E> iterator()
                                                       List<Student>11 = new ArrayList<Student>();
                                                       // case 1
                                                       Student s = new Student();
                                                       s.accept();
                                                       11.add(s);
                                                       //case 2
                                                       Interator<Student> itr = 11.iterator();
                                                       while()
                                                       Student s = new Student(3);
                                                       int index = indexof(s);
                                                       sysout(11.get(index));
```



# Set

}

- It is an interface used to store the unique elements inside it.
- We cannot add duplicate elements.
- null values are allowed.
- we have 3 subclasses of this set interface
- 1. HashSet -> It does not maintain any order of elements
- 2. LinkedHashSet -> It maintains the order of insertion
- 3. TreeSet -> It maintains the natural order of the elements.
- all the object of the classes that needs to be stored inside the set must implement hashcode and equals
- if Treeset is used then the object of the classes that we want to store must implement the comparable interface. otherwise we will get ClassCastException
- The treeset checks the equality of the objects on the compareTo() of the comparable