



Collection Framework

Collection ???

Any group of individual objects which are represented as a single unit is known as the collection of the objects.

books

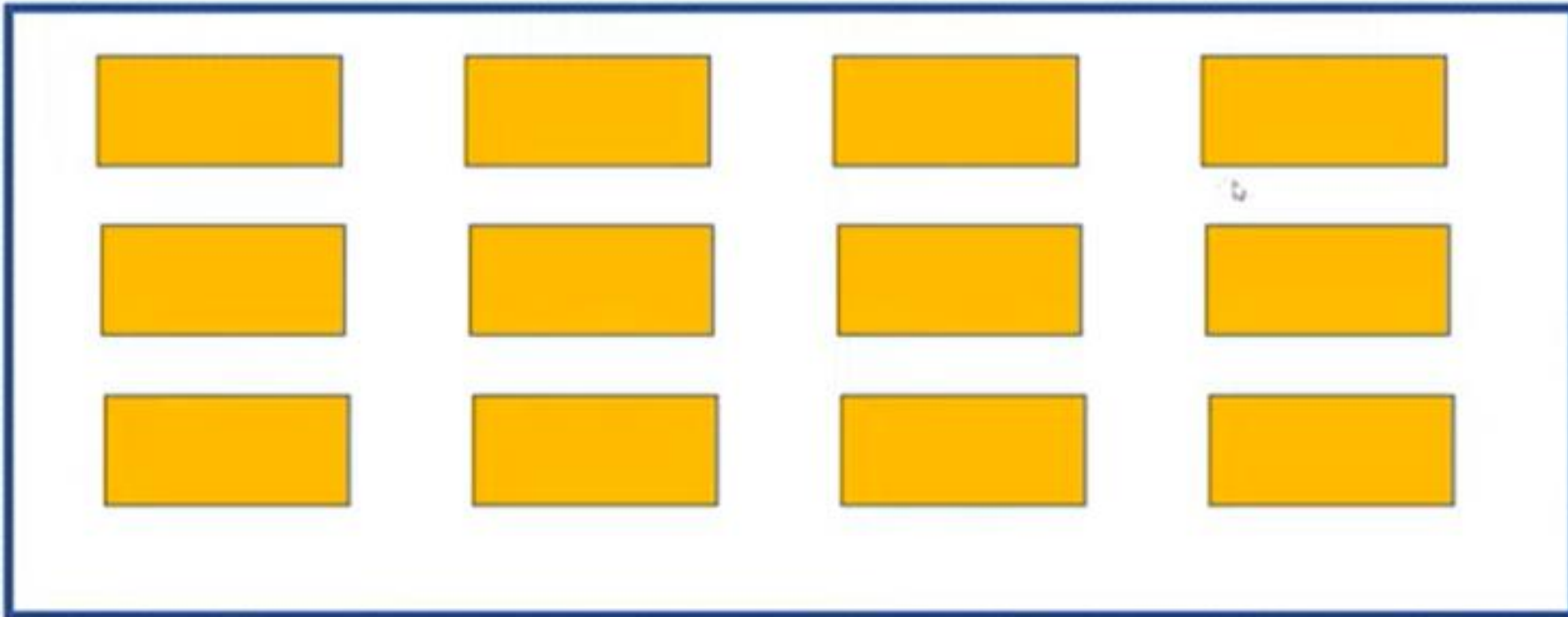


single object

collection

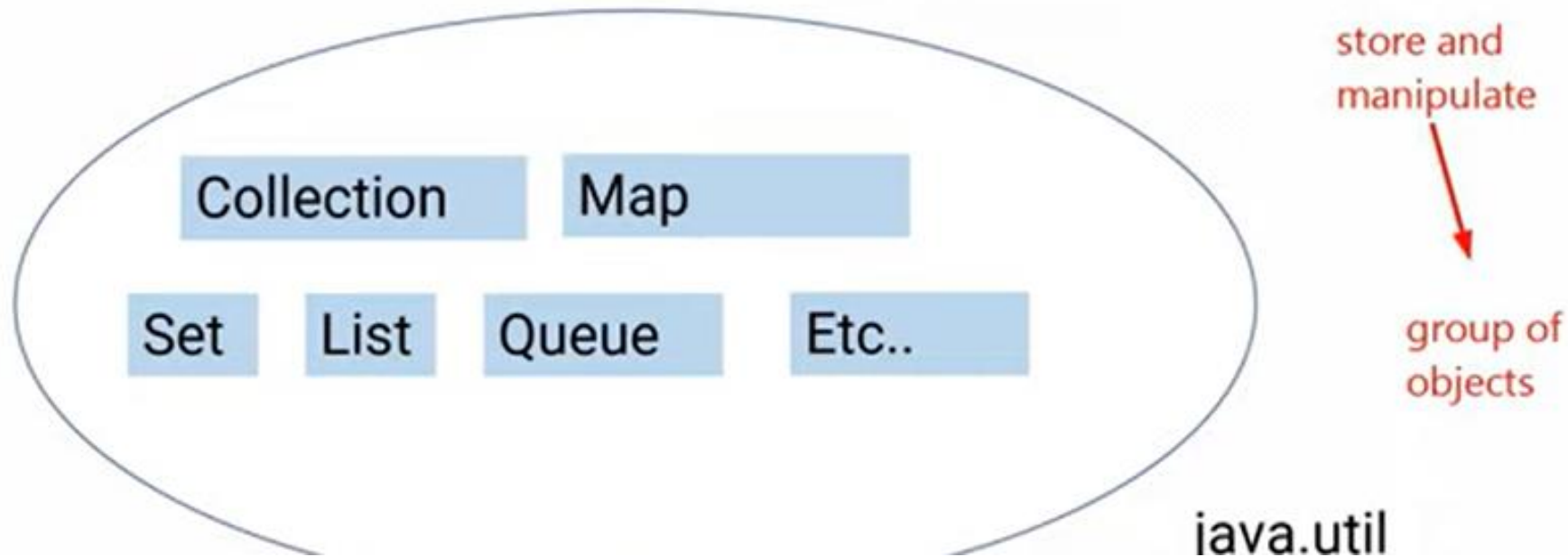
Framework ?

A framework is a set of classes and interfaces which provide a ready-made architecture.

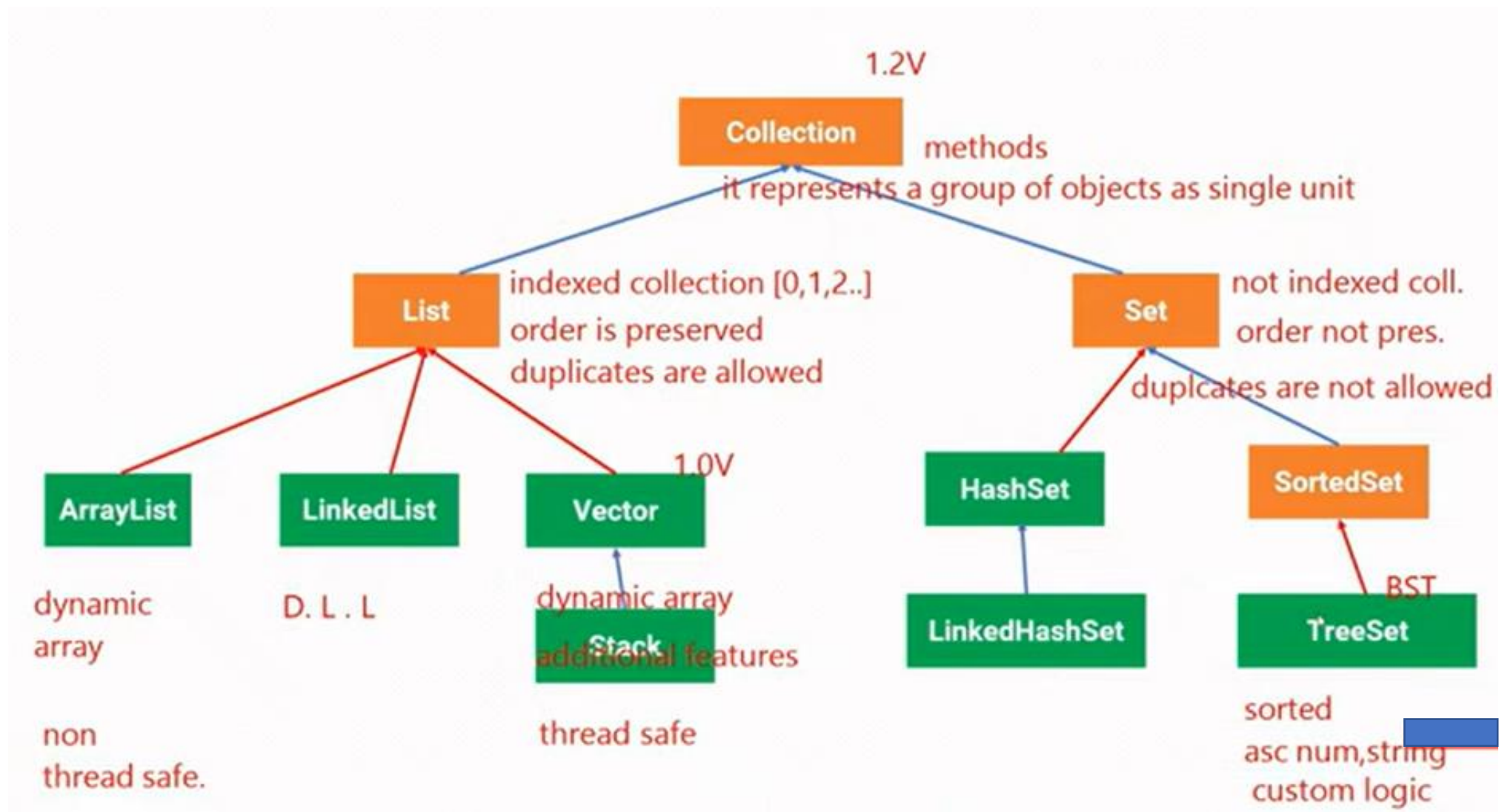


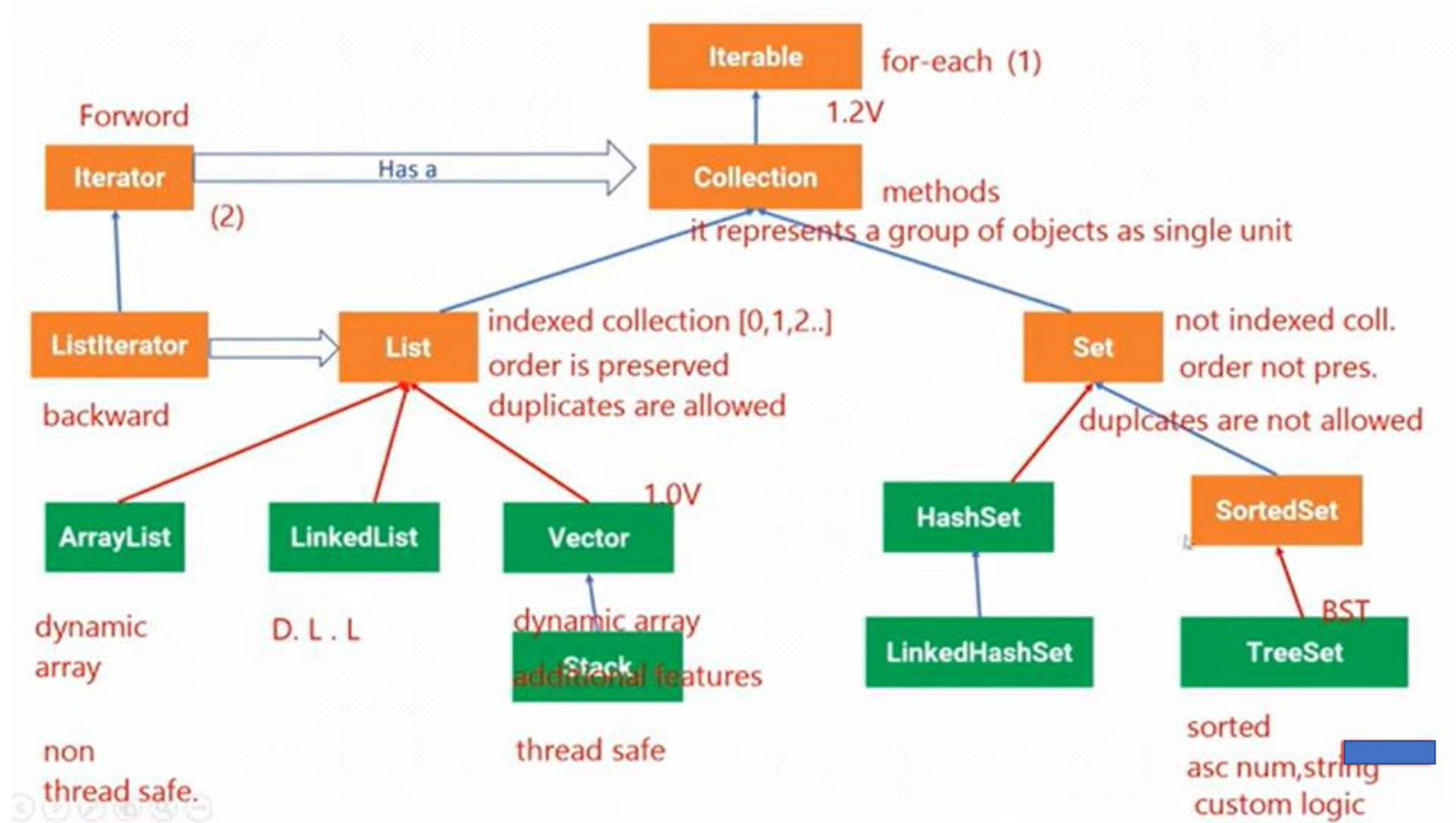
Collection Framework ?

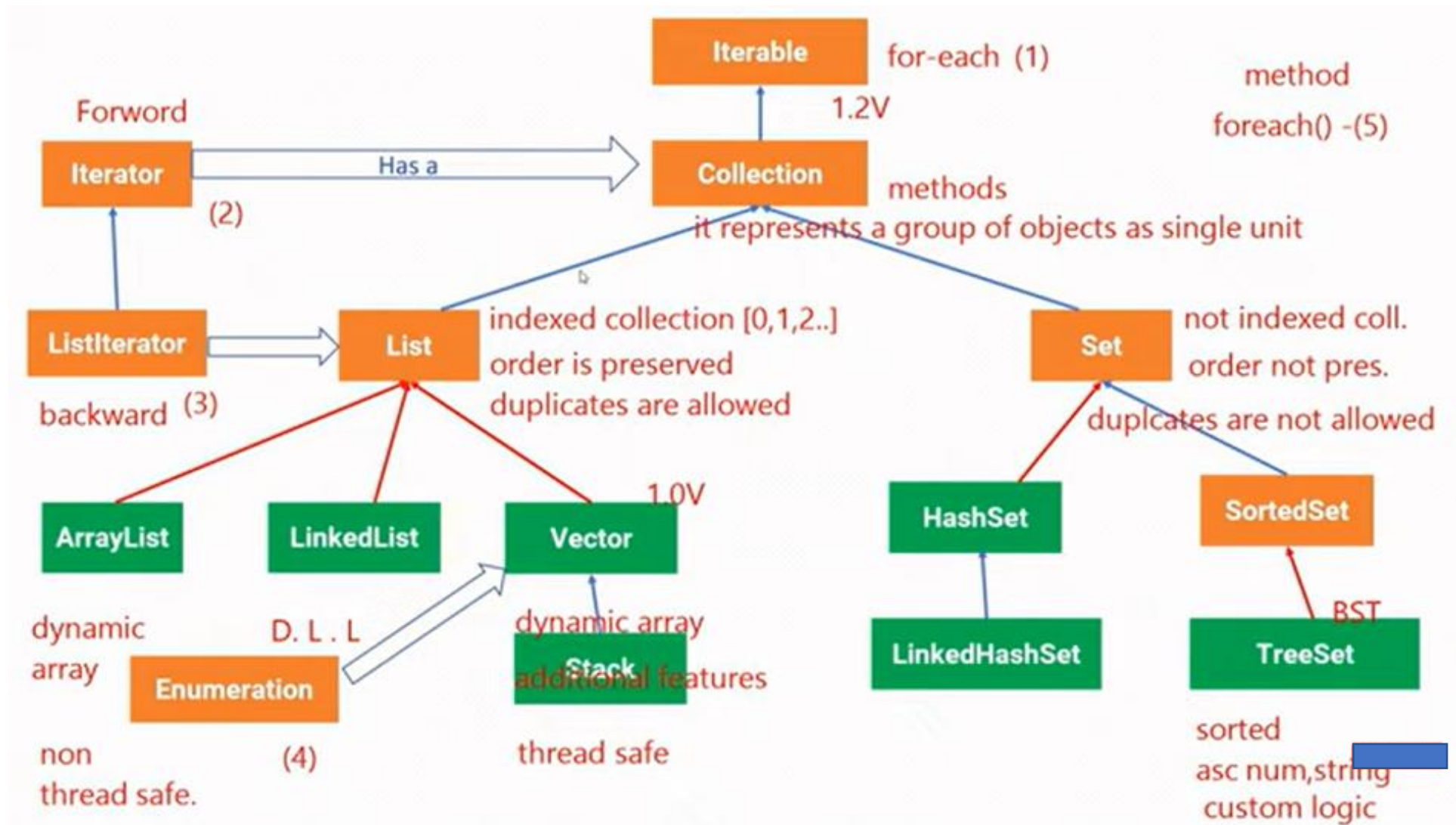
Collection Framework is java API which provides architecture to store and manipulate group of objects

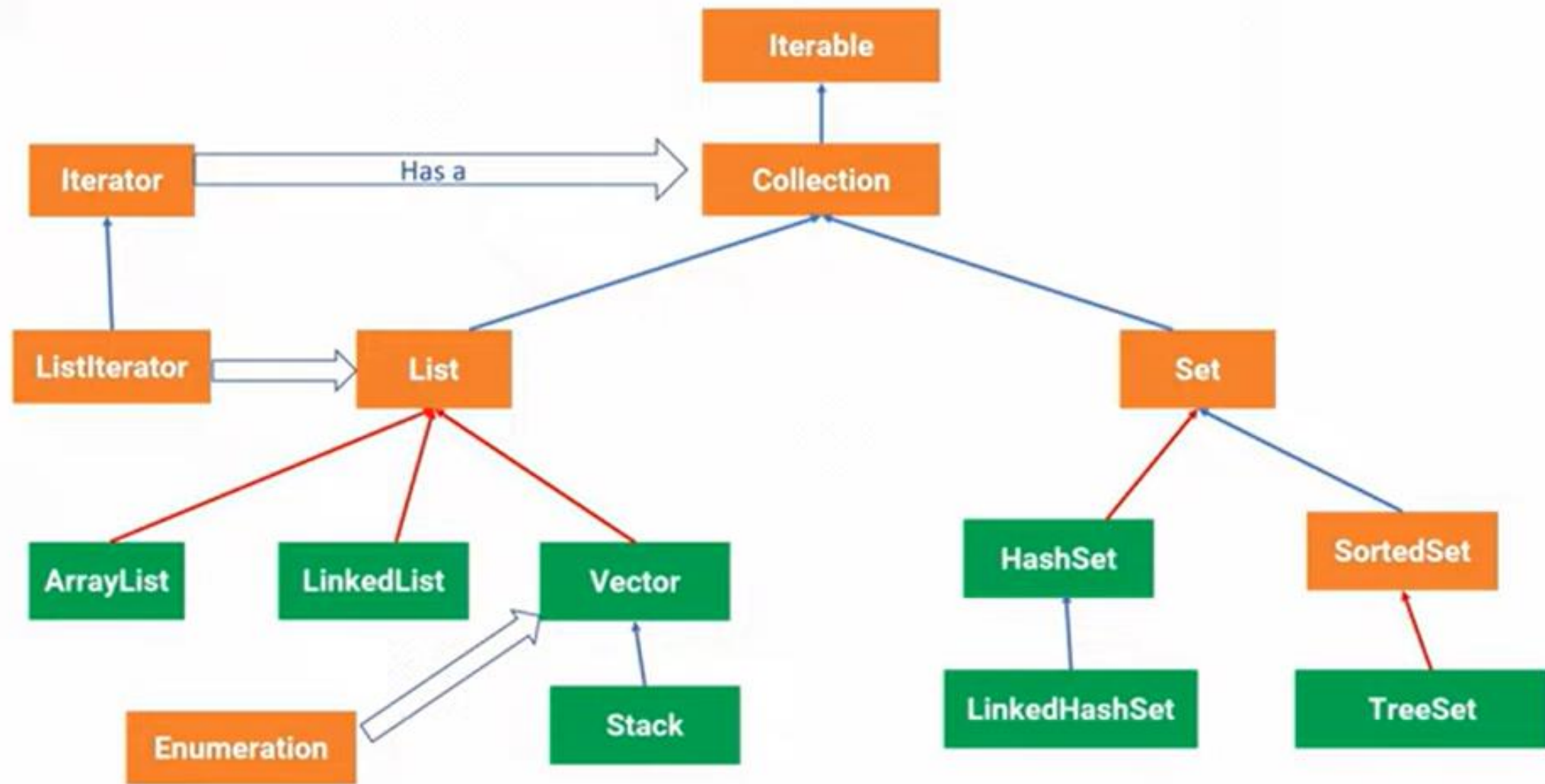


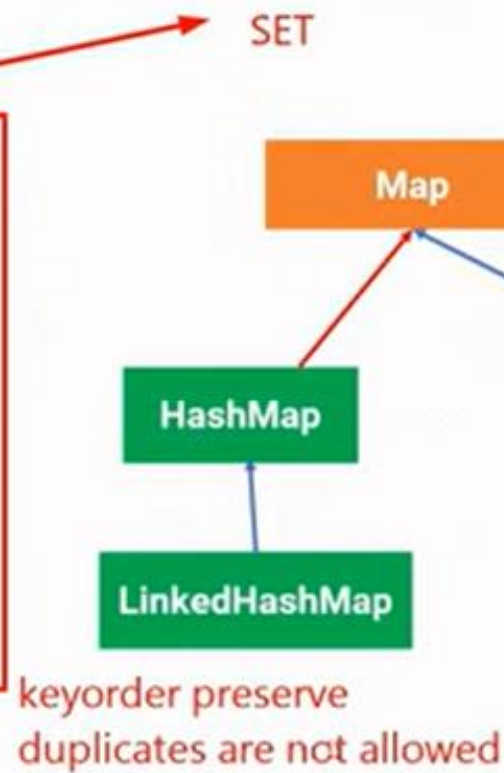
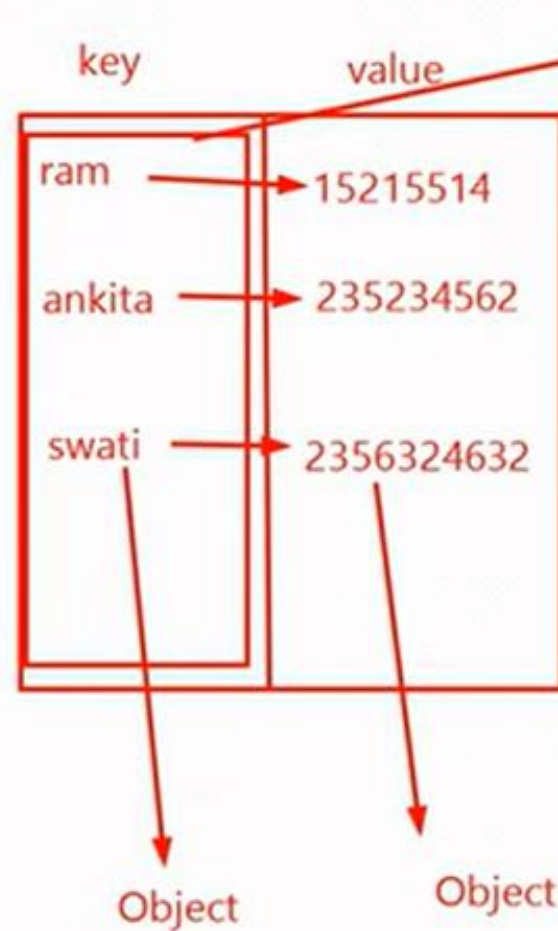
Collection Hierarchy











duplicate keys are not allowed
order of keys are not preserved

keywise sorting

Integer, Float, String, Student, Book

creating collection

1)Type Safe- same type of elements(objects) are added to collection

2)Un Type safe- different types of elements can be added to collection

```
//Type safe collection
```

```
ArrayList<String> names=new ArrayList<String>();
```

```
|
```

```
//un type safe
```

```
LinkedList list=new LinkedList();
```


List : (Interface)

```
List <data-type> l1 = new ArrayList();
```

```
List <data-type> l1 = new LinkedList();
```

```
List <data-type> l1 = new vector();
```

```
List <data-type> l1 = Stack();
```

Set : (interface)

```
set<datatype> s1 = new HashSet<datatype>();  
set<datatype> s1 = new LinkedHashSet<datatype>();  
set<datatype> s1 = new TreeSet<datatype>();
```