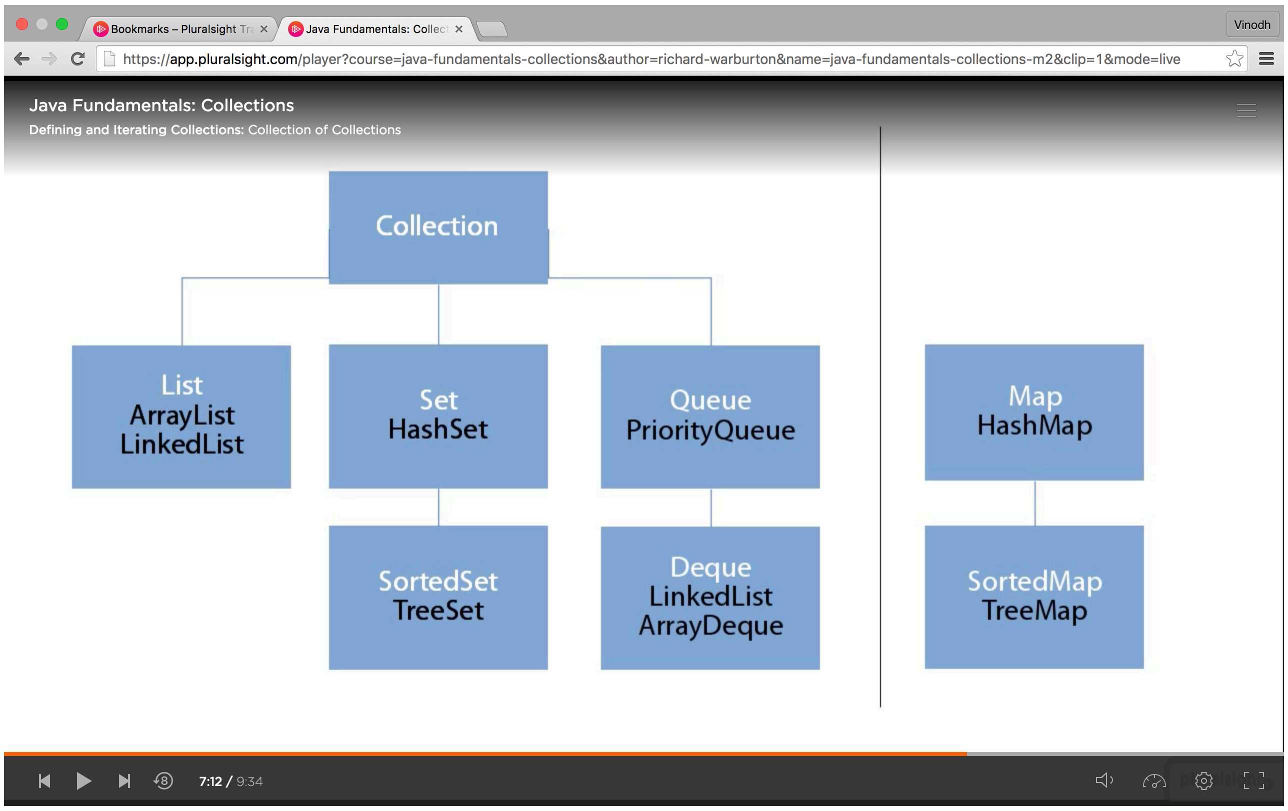
Java Collections

Saturday, May 14, 2016 10:21 PM



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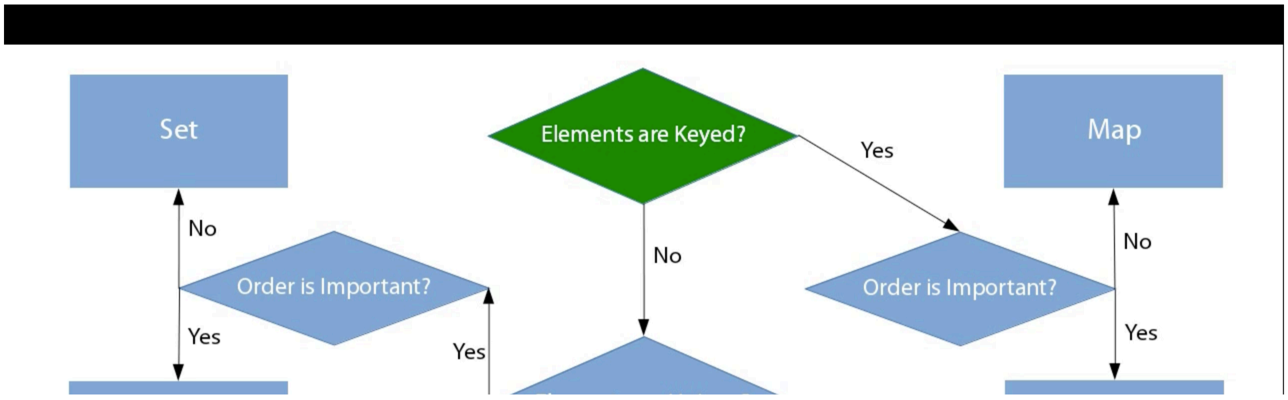
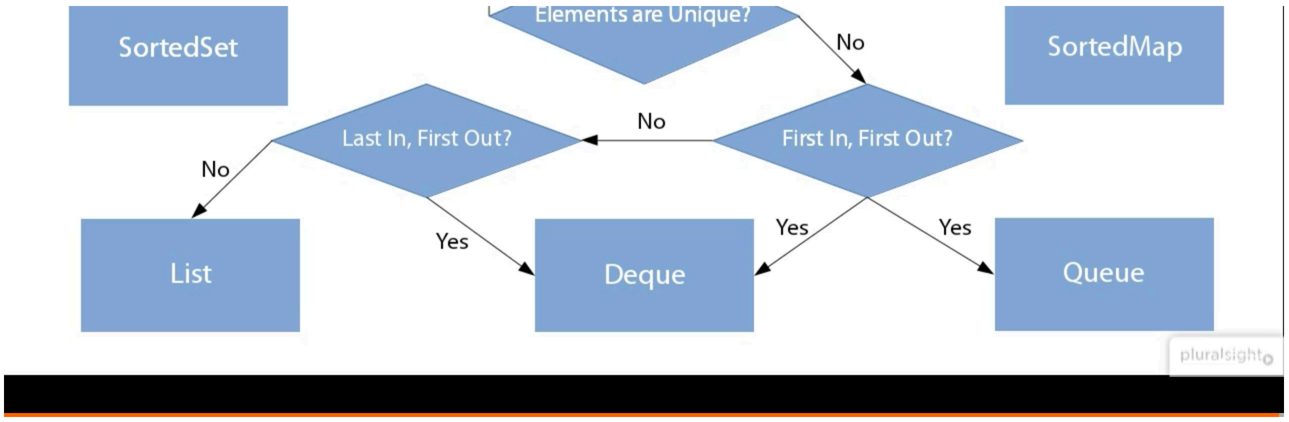
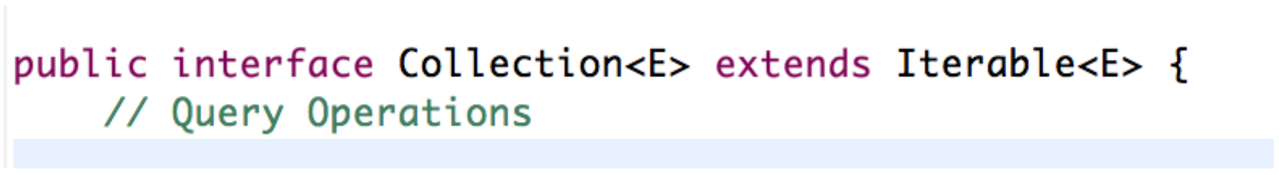
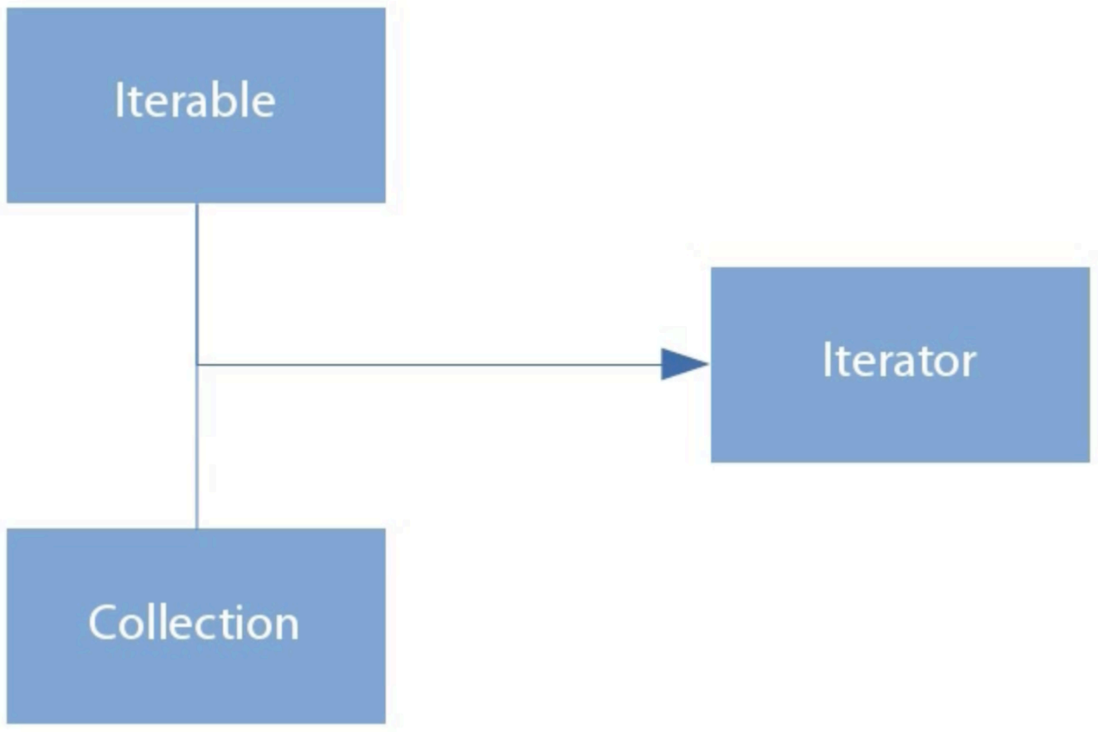
Java Fundamentals: Collections
Defining and Iterating Collections: Collection of Collections
Collection
List
ArrayList
LinkedList
Set
HashSet
Queue
PriorityQueue
Map
HashMap
SortedSet
TreeSet
Deque
LinkedList
ArrayDeque
SortedMap
TreeMap
7:12 / 9:34







```
public interface Collection<E> extends Iterable<E> {
    // Query Operations
```



Outline of `Collection` Interface

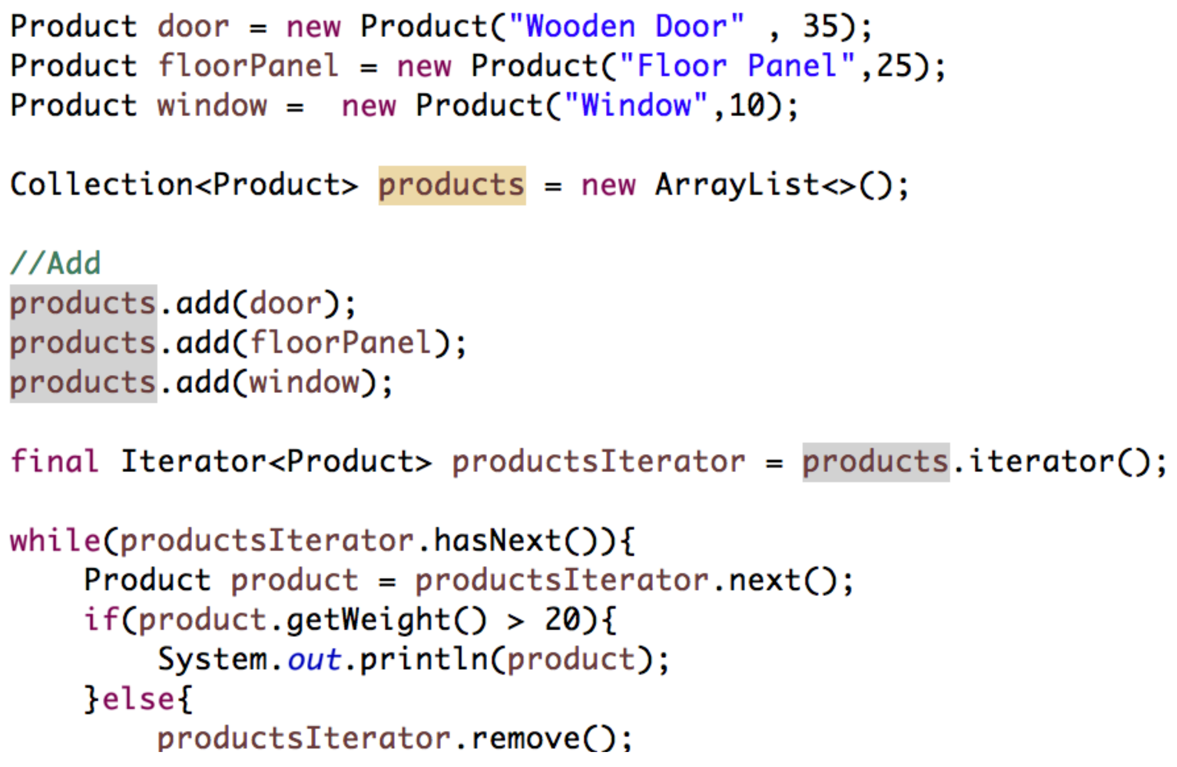
size()	Get the number of elements in the Collection
isEmpty()	True if size() == 0, false otherwise
add(element)	Add the element at the beginning of this collection
addAll(collection)	Add all the elements of the argument collection to this collection
remove(element)	Remove the element from this collection
removeAll(collection)	Remove all the elements of the argument collection to this collection
retainAll(collection)	Remove all the elements of this collection not in the argument collection
contains(element)	True if the element is in this collection, false otherwise
containsAll(collection)	True if all the elements of the argument collection are in this collection
clear()	Remove all elements from this collection

Use iterator if you want to remove the item on the go . If you use for loop we will get CONCURRENT MODIFICATION EXCEPTION

Same is the case for

1) Adding
2) Removing
3) Clear etc

So if you looping over your collection do not modify it.



```
Product door = new Product("Wooden Door" , 35);
Product floorPanel = new Product("Floor Panel",25);
Product window =  new Product("Window",10);

Collection<Product> products = new ArrayList<>();

//Add
products.add(door);
products.add(floorPanel);
products.add(window);

final Iterator<Product> productsIterator = products.iterator();

while(productsIterator.hasNext()){
    Product product = productsIterator.next();
    if(product.getWeight() > 20){
        System.out.println(product);
    }else{
        productsIterator.remove();
        }

    }
```