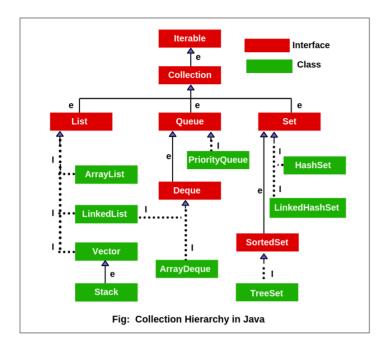
Collection



How to creeke Annualist

Annualist (Integer) annual annualist () ();

List (Integer) annual annualist () ();

ArrayList (Integer) list = now Annualist () ();

ArrayList (Integer) annualist () ();

anr. add (10);

ann. add (20);

ann. 022 (30);

ann. get (1); 1/20

list.add(1); // index - 0

list.add(2); // index - 1 list.add(3); // index - 2

list.add(4); // index - 3

list.add(4); // index - 4

list.add(4); // index - 5

System.out.println(list.get(1));

// Set Element

list.set(1, 20);

System.out.println(list.get(1));

// True/False

System.out.println(list.contains(2));

// Last Element

System.out.println(list.lastIndexOf(4));

System.out.println(list.indexOf(3));

// Remove

System.out.println(list.remove(5));

System.out.println(list);

Linked lis L

List (Integer) list 2 how linkedlist()();

Same work as like Amonglish

Stack

Last in First own



Push => add

pop => remove

Peux => first ele

isEmpty => Stack is empty or NOT-

Stack<Integer> stack = new Stack<>();

int i = 0;

// insert operation
while(i < 5) {
 stack.push(i);
 i++;
}</pre>

System.out.println(stack);

while(!stack.isEmpty()) {
 System.out.println(stack.pop());

System.out.println(stack);

Stack (Integer) St z new Stack ()();

Privity Queen (Heap Sort)

Min Heap

ASC

DSCE

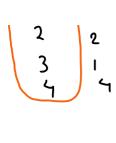
1 3 2 2

PriorityQueue<Integer> minHeap = new PriorityQueue<> (); // min Heap

PriorityQueue<Integer> maxHeap = new
PriorityQueue<>(Collections.reverseOrder()); // min
Heap

// minHeap minHeap.add(11); minHeap.add(2); minHeap.add(31); minHeap.add(4); // maxHeap maxHeap.add(5); maxHeap.add(7); maxHeap.add(8);

System.out.println("Min Heap Element: " +



- Contains only unique elements

- [1,2,2,3,3,4,3,6] T/P

→ [1,2,3,4,5,6] o/p

 $\frac{1 - sh Sut}{L} \Rightarrow unorder Sut.$ System.out.println(set.remove(4));
System.out.println(set);
System.out.println(set);
System.out.println(set); $\frac{1}{L} \Rightarrow [1, 2, 3, 4] \Rightarrow [1, 2, 3, 4] \Rightarrow [1, 2, 3, 4]$ Linkul Hoshsut \Rightarrow Insurt order \Rightarrow $[1, 2, 3, 4] \Rightarrow [1, 2, 3, 4]$

Trush => Sorted Sut => [4,3,2,1] -> [1,2,3,4]

tash map Мар SortedMap HashMap TreeMap LinkedHashMap maxHeap.add(8):

System.out.println("Min Heap Element:"+

System.out.println("Max Heap Element: " + maxHeap);

System.out.println("--- Min Heap Elements ---"); while(!minHeap.isEmpty()) {

System.out.println("Min Heap Element: "+ minHeap.remove());

System.out.println("--- Max Heap Elements ---");

while(!maxHeap.isEmpty()) { System.out.println("Max Heap Element: " + maxHeap.remove()):

Set<Integer> set = new HashSet<>();

set.add(1); set.add(1):

set add(1): set.add(1);

set.add(1);

set.add(2);

set.add(3); set.add(4);

set.add(5);

System.out.println(set): System.out.println(set.contains(2));

Map (Integer, Integer) map = hen Hashmap (>();

```
int[] arr =
{1,1,1,3,4,56,6,5,4,23,2,5,5,5,3,32,2,4,5,45,6,6,4,75,
3};
    Map<Integer, Integer> map = new HashMap<>
();
    for(int x : arr) {
        map.put(x, map.getOrDefault(x, 0) + 1);
    }
    System.out.println(map);
    for(Map.Entry<Integer, Integer> entry :
map.entrySet()) {
        System.out.println(entry.getKey() + " : " +
entry.getValue());
    }
```