Zach Healy

19.3 – removeDups.java

package com.mycompany.ch8.hw8;

import java.util.ArrayList;

public class removeDups {

public static void main(String[] args) {

ArrayList<Integer> list = new ArrayList<Integer>();

list.add(10);

list.add(3);

list.add(3);

list.add(4);

list.add(7);

ArrayList<Integer> nList = removeDuplicates(list);

System.out.println(nList);

}

public static <E> ArrayList<E> removeDuplicates(ArrayList<E> list) {

ArrayList<E> nList = new ArrayList<E>();

for (int i = 0; i < list.size(); i++) {

if (!nList.contains(list.get(i))) {

nList.add(list.get(i));

}

}

return nList;

}

}



19.5 – findMax.java

package com.mycompany.ch8.hw8;

public class findMax {

public static <E> void main(String[] args) {

Integer[] list = new Integer[10];

for (int i = 0; i < list.length; i++) {

list[i] = i;

}

Integer nList = max(list);

System.out.println("Max element in the array is: " + nList);

}

public static <E extends Comparable<E>> E max(E[] list) {

E max = list[0];

for (int i = 1; i < list.length; i++) {

E temp = list[i];

if (temp.compareTo(max) > 0) {

max = temp;

}

}

return max;

}

}



19.7 – binarySearch.java

package com.mycompany.ch8.hw8;

public class binarySearch {

public static void main(String[] args) {

Integer[] list = new Integer[10];

for (int i = 0; i < list.length; i++) {

list[i] = i;

}

int pos = binarySearch(list, 3);

System.out.println("The number 3 is at position: " + pos);

}

public static <E extends Comparable<E>> int binarySearch(E[] list, E key) {

for (int i = 0; i < list.length; i++) {

if (list[i] == key) {

return i + 1;

}

}

return -1;

}

}

