

# Homework 6 - Arrays and ArrayLists

In this homework you have the chance to explore arrays and ArrayList in Java. This homework consists of 3 parts and the file names submitted should be Part1.java, Part2.java, Part3.java

## Part 1

In this part you need need to write some functions 1) public static int[] createArray(int size) 2) public static ArrayList createArrayList() 3) public static int findInArray(int arr[], int val) /\* return index or -1 if not present / 4) public static int findInArrayList(ArrayList al, int val) / return index or -1 if not present \*/ 5) public static int getSizeOfArray(int arr[]) 6) public static int getSizeOfArrayList(ArrayList al) 7) public static void printAL(ArrayList al) 8) public static void printArray(int arr [])

## Part 2

In this part you will store the scores in a list and compute the average of those scores

### Sample Run

How many grades do you have 10 Enter integer score 95 Enter integer score 83 Enter integer score 99 Enter integer score 87 Enter integer score 76 Enter integer score 100 Enter integer score 91 Enter integer score 85 Enter integer score 77 Enter integer score 90 Your average is: 88.3

## Part 3

In this part you will continuously enter numbers until -1 is entered and at the end print out the number of occurrences of each value

### Sample Run

Enter an positive integer, -1 will stop:1 Enter an positive integer, -1 will stop:2 Enter an positive integer, -1 will stop:3 Enter an positive integer, -1 will stop:4 Enter an positive integer, -1 will stop:5 Enter an positive integer, -1 will stop:6 Enter an positive integer, -1 will stop:7 Enter an positive integer, -1 will stop:8 Enter an positive integer, -1 will stop:9 Enter an positive integer, -1 will stop:-1 Number: 1, Count: 1 Number: 2, Count: 1 Number: 3, Count: 1 Number: 4, Count: 1 Number: 5, Count: 1 Number: 6, Count: 1 Number: 7, Count: 1 Number: 8, Count: 1 Number: 9, Count: 1