**Text File:**

4.0, 4.0,

1.0, 3.0,

5.0, 5.0,

2.0,

**METHODS**

package project;

import java.io.BufferedReader;

import java.io.File;

import java.io.FileReader;

import java.io.IOException;

import java.util.\*;

import java.util.HashSet;

public class Ass6 {

public static void main(String[] args) {

File file = new File("/Users/B-rad/Documents/CS/210/valueList.txt");

LinkedList<Double> list = readListFile(file);

System.out.println(getSum(list));

System.out.println(list);

System.out.println(numUnique(list));

details(list);

}

//QUESTION 3

public static LinkedList<Double> readListFile(File file) {

LinkedList<Double> list = new LinkedList<Double>();

try {

BufferedReader reader = new BufferedReader(new FileReader(file));

while (reader.ready()) {

String content = reader.readLine();

content.trim();

String[] parts = content.split(",");

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

double value = Double.parseDouble(parts[i]);

list.add(value);

}

}

reader.close();

} catch (IOException e) {

System.out.println(e.getMessage());

}

return list;

}

//QUESTION 4

public static double getSum(LinkedList<Double> a) {

Double sum = 0.0;

for (Double value:a) {

sum = sum + value;

}

return sum;

}

//QUESTION 5

public static int numUnique(LinkedList<Double> a) {

HashSet<Double> list = new HashSet<Double>();

for (Double value:a) {

list.add(value);

}

System.out.println(list);

int num = 0;

for (Double value:list) {

num++;

}

return num;

}

//QUESTION 6

public static void details(LinkedList<Double>a){

HashMap<Double, Integer> list = new HashMap<Double, Integer>();

for (Double value:a) {

if (list.containsKey(value)) {

int count = list.get(value).intValue();

count = count + 1;

list.put(value, count);

} else {

list.put(value, 1);

}

}

System.out.println(list);

}

}

**Output:**

24.0

[4.0, 4.0, 1.0, 3.0, 5.0, 5.0, 2.0]

[3.0, 2.0, 1.0, 4.0, 5.0]

5

{3.0=1, 2.0=1, 1.0=1, 4.0=2, 5.0=2}