PA6 – Programming Workflow Template

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First 30 Minutes

Screenshot or copy/paste of program:

// AveragePositives.java

class AveragePositives {

public static void main(String[] args) {

double sum = 0;

double posNum = 0;

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

{

if (Double.parseDouble(args[i]) > 0) {

sum += Double.parseDouble(args[i]);

posNum += 1;

} else {

sum += 0;

}

}

if(sum == 0 && posNum == 0) {

System.out.println(0);

} else {

System.out.println(sum/posNum);

}

}

}

// PairSelect.java

class Pair {

int a;

int b;

Pair (int a, int b) {

this.a = a;

this.b = b;

}

}

class PairSelect {

int[] getAs() {

}

}

Screenshot or copy/paste of ./run output (if any):

// AveragePositives.java

C:\Users\john zhou\Desktop\CSE11\cse11-pa6-starter-main>.\run.bat AveragePositives

Tester Library v.3.0

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Tests defined in the class: AveragePositives:

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AveragePositives:

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new AveragePositives:1()

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No test methods found.

// PairSelect.java

C:\Users\john zhou\Desktop\CSE11\cse11-pa6-starter-main>.\run.bat PairSelect

Exception in thread "main" java.lang.RuntimeException: The PairSelect class could not be found.

Please make sure to specify the name of your examples class properly (with no typos).

at java.base/jdk.internal.loader.BuiltinClassLoader.loadClass(BuiltinClassLoader.java:641)

at java.base/jdk.internal.loader.ClassLoaders$AppClassLoader.loadClass(ClassLoaders.java:188)

at java.base/java.lang.ClassLoader.loadClass(ClassLoader.java:521)

at java.base/java.lang.Class.forName0(Native Method)

at java.base/java.lang.Class.forName(Class.java:390)

at java.base/java.lang.Class.forName(Class.java:381)

at tester.Main.main(Main.java:228)

Thoughts on your progress:

Making good time I think :) Following the directions for PairSelect at this point

Distractions:

Discord lol. 5 minutes.

Second 30 minutes:

Screenshot or copy/paste of program:

//PairSelect.java

import tester.\*;

class Pair {

int a;

int b;

Pair (int a, int b) {

this.a = a;

this.b = b;

}

}

class PairSelect {

int[] getAs(Pair[] arr) {

int[] newArr = new int[arr.length];

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

newArr[i] = arr[i].a;

}

return newArr;

}

boolean tests(Tester f) {

Pair num1 = new Pair(1, 2);

Pair num2 = new Pair(2, 3);

Pair num3 = new Pair(3, 4);

Pair num4 = new Pair(4, 5);

Pair num5 = new Pair(5, 6);

Pair num0 = new Pair(0, 0);

Pair num100 = new Pair(100,1);

Pair numneg100 = new Pair(-100,-1);

Pair[] a = {num1, num2, num3, num4, num5};

Pair[] b = {num5, num4, num3, num2, num1, num2, num3, num4, num5};

Pair[] c = {num100, num0, num0, num0, numneg100};

Pair[] d = {num0, num0, num0, num0, num0};

int[] a1 = {1, 2, 3, 4, 5};

int[] b1 = {5, 4, 3, 2, 1, 2, 3, 4, 5};

int[] c1 = {100, 0, 0, 0, -100};

int[] d1 = {0, 0, 0, 0, 0};

return f.checkExpect(this.getAs(a), a1) &&

f.checkExpect(this.getAs(b), b1) &&

f.checkExpect(this.getAs(c), c1) &&

f.checkExpect(this.getAs(d), d1);

}

}

Screenshot or copy/paste of ./run output (if any):

C:\Users\john zhou\Desktop\CSE11\cse11-pa6-starter-main>.\run.bat PairSelect

Tester Library v.3.0

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Tests defined in the class: PairSelect:

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PairSelect:

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new PairSelect:1()

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Ran 4 tests.

All tests passed.

--- END OF TEST RESULTS ---

Thoughts on your progress:

MAKING GOOD TIME :), got a little lost predetermining array sizes.

Distractions:

None

Final 30 minutes:

Screenshot or copy/paste of program:

Screenshot or copy/paste of ./run output (if any):

Thoughts on your progress:

Distractions:

Overall Reflection

I think I spent the most amount of time googling my errors, my tests were generally pretty straightforward and most of my errors resulted in all my tests failing or all of them passing. Though with AveragePositives.java I'd almost forgotten to account for averaging across only the positives, as the negative values counted towards the total numbers. With PairSelect.java figuring out that the index out of bounds was referring to my new array took a bit.

To cut down on time, I think I should program alongside reading the instructions, as usually I read through the instructions first, but trying programming alongside the instructions took significant time off.

I usually read through the instructions first, so doing it alongside the instructions is a better method.

I've learned that understanding error messages and accounting for all situations takes the most amount of time for me.

TOTAL TIME: 1 hour 6 minutes.