PA6 – Programming Workflow Template

Name: Yadi Zhang

UCSD email: yaz219@ucsd.edu

First 30 Minutes

Screenshot or copy/paste of program:

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

```
Hes-MacBook:pa6 yadizhang$ java AveragePositives 20 3.2 4.9 9.36666666666667
Hes-MacBook:pa6 yadizhang$ java AveragePositives 20 30 40 30.0
Hes-MacBook:pa6 yadizhang$ java AveragePositives 1 2 3 4 5 6 7 8 4.5
Hes-MacBook:pa6 yadizhang$ java AveragePositives 9 1 3 6 10 5.8
Hes-MacBook:pa6 yadizhang$ java AveragePositives 3 8 10 12 15 9.6
Hes-MacBook:pa6 yadizhang$ java AveragePositives 4 52 9 17 20.5
Hes-MacBook:pa6 yadizhang$ ■
```

Thoughts on your progress:

I feel like it takes more time to read through the write up than to actually start coding. During the first 30 minutes, I spent more than 20mins on digesting the writeup and organizing the logic of the coding. The coding process only takes 5-6mins if I fully concentrate on it.

Distractions: Music and TV show about 5mins.

Second 30 minutes:

Screenshot or copy/paste of program:

```
yadizhang > pa6 > 0 PairSelect.java > 😵 PairSelect > 😚 testgetAsyadizhang > pa6 > 0 PairSelect.java > 😭 PairSelect > 😚 testgetAs4(Tester
import tester.*;
class Pair{
                                                                        Pair test1 = new Pair(2,3);
                                                                        Pair test2 = new Pair(22,33);
   int a:
                                                                        Pair test3 = new Pair(1,90);
   int b;
                                                                        Pair test4 = new Pair(11,25);
   Pair(int a,int b){
                                                                        Pair[] aha = {test1,test2,test3,test4};
                                                                        Pair[] woohoo = {test1,test2,test3};
        this.b = b;
                                                                        Pair[] eyyo = {test1,test2};
                                                                        Pair[] wow = {test1};
                                                                        int[] expect1 = {2,22,1,11};
                                                                        int[] expect2 = {2,22,1};
   int[] getAs(Pair[] input){
                                                                        int[] expect3 = {2,22};
                                                                        int[] expect4 = {2};
      int[] temp = new int[input.length];
        for(int i = 0;i<input.length;i++){</pre>
                                                                        boolean testgetAs1(Tester t){
           temp[i] = input[i].a;
                                                                            return t.checkExpect(this.getAs(aha),expe
       return temp;
                                                                         boolean testgetAs2(Tester t){
                                                                            return t.checkExpect(this.getAs(woohoo), e
   Pair test1 = new Pair(2,3);
```

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

```
[0] 2,
[1] 22
}
this.expect4 = new int[1]:13{
  [0] 2
})
-------
Ran 4 tests.
All tests passed.
--- END OF TEST RESULTS ---
```

Thoughts on your progress:

I spent a lot of time debugging for the second task and also the second 30mins. The checkExpect method wouldn't let me directly put an int array in the expecting-result section. Therefore, I tried different approaches to get rid of the syntax error.

Distractions: Music for about 7 mins

Final 30 minutes:

Screenshot or copy/paste of program:

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

Thoughts on your progress:

- Where did you spend the most time?
 - For me, debugging is the most time-consuming. It's the easiest thing to make mistakes but it's the hardest to find out the mistakes. When I was stuck into one particular part, no matter when interpreting error messages or coding, it usually takes me five times more energy than just typing codes out.
- What could you do to reduce the time taken in the future?
 - I think what I could do is to practice more in order to cultivate an ability of error detecting and correcting. And also the sinfulness of interpreting the error message.
- How did this process compare to how you usually complete PAs?

- It pushes me to focus on my programming more since I really want to finish a task in 30mins and I think it works well.
- Overall, what did you learn from this experience about your programming workflow, if anything?
 - It makes me more effective but more stressful.

Distractions:

Overall Reflection