QAP 2 – Advanced Programming (Java) Author: Laura Wiseman

Date: February 13th, 2025

1. How many hours did it take you to complete this assessment?

A: I worked on this assignment for approximately 10-12 hours total. I had to rewatch some lectures to refresh some topics!

2. What online resources you have used?

A: I used your lectures and PowerPoints!

3. Did you need to ask any of your friends in solving the problems?

A: I asked Noah Devine about some structures and wording!

4. Did you need to ask questions to any of your instructors?

A: I did not ask an instructor any questions regarding this assignment.

5. Rate this assignment.

A: I would rate this assignment an 8/10! I found this QAP a little more challenging! I've enjoyed the concepts we've covered for this QAP! I will need some more practice of course. ©

Problem #1:

```
☆ Run: TestMyLine 十∨ Ⅲ 逾 ··· ^ ×
  PROBLEMS
                OUTPUT
                           TERMINAL
laurawiseman@MacBookAir JAVAQAP2 % >....
  /laurawiseman/Library/Application\ Support/Code/User/workspaceStorage/8186b1a1ea984d34904bcb
 cf6a3d4517/redhat.java/jdt_ws/JAVAQAP2_4a3e5f3d/bin TestMyLine MyLine [begins = (2,2), ends = (2,2)]
MyLine [begins = (1,2), ends = (1,2)]
  lí begin: (2,2)
  l1 new begin: (3,3)
  l1 end: (2,2)
  l1 new end: (4,4)
  l1 begin X: 3
  l1 new begin X: 5
  l1 begin Y:3
  l1 new begin Y:6
  l1 begin X: 4
  l1 new begin X: 7
  l1 begin Y:4
  l1 new begin Y:8
  l1 begin XY:[I@5a07e868
  l1 new begin XY: [9, 9]
  l1 end XY: [I@76ed5528
  l1 new begin XY: [10, 10]
l1 length: 1.4142135623730951
  l1 gradient: 0.7853981633974483
  l1 toString: MyLine [begins = (9,9), ends = (10,10)]
o laurawiseman@MacBookAir JAVAQAP2 %
```

Problem #2:



Problem #3:



UML table

-topLeft: MyPoint -topRight: MyPoint +MyRectangle(topLeft, bottomRight) +setTopLeft(topLeft:void) +setBottomRight(bottomRight:void) +getWidth() +getHeight() +getArea() +getPerimeter() +toString()