point

For many of the questions in this quiz, you will need to have completed the Calculating the Shape of a Perimeter programming exercise, using the **ProgrammingAssignmentRunner BlueJ Project on DukeLearnToProgram.com:** http://www.dukelearntoprogram.com/course2/files.php.

What is the perimeter of the shape made from the file **datatest1.txt** whose contents are shown below (just give to two decimal places)?

- -3,3
- -4,-3
- 4,-2
- 6,5

30.64

point

What is the average length of a side in the shape made from the file **datatest4.txt** whose contents are shown below (just give to two decimal places)?

- -3, 9
- -8, 7
- -12, 4
- -6, -2
- -4, -6
- 2, -8
- 6, -5
- 10, -3
- 8, 5

4, 8

5.94

point

What is the longest side in the shape made from the file **datatest1.txt** whose contents are shown below (just give to two decimal places)?

- -3,3
- -4,-3
- 4,-2
- 6,5

9.21

point

What is the largest perimeter of a shape made from the shapes in files **dataset1.txt**, 4. dataset2.txt, dataset3.txt, dataset4.txt, dataset5.txt, and dataset6.txt (just give to two decimal places)?

62.65

point

What is the name of the file that has the shape with the largest perimeter from the four 5. files example1.txt, example2.txt, example3.txt and example4.txt?

- example1.txt
- example2.txt
- example3.txt example4.txt
- point
- The method getNumPoints returns the number of points in a Shape s. 6.

3 - for (Point p : s.getPoints()) {

4 - for (Point p : s.getPoints()) {

return count;

6 } 7

count = count + newPoint;

int count = 0;

Which one of the following is NOT a correct implementation of getNumPoints? 1 - public int getNumPoints (Shape s) {

```
int newPoint = 1;
       count = count + newPoint;
6 }
7
    return count;
1 - public int getNumPoints (Shape s) {
2 int count = 0;
```

3 - for (Point p : s.getPoints()) { count = count + count; 6 return count; 7 } 1 - public int getNumPoints (Shape s) { int count = 0; int newPoint = 1;

```
1 - public int getNumPoints (Shape s) {
    int count = 0;
3 - for (Point p : s.getPoints()) {
       count = count + 1;
    }
    return count;
```

point

Shape s and calls the function getNumPoints from the assignment.

Consider the following code for the function mysteryShape that has one parameter a

```
1 - public double mysteryShape (Shape s) {
      double tmp = 0;
     for (Point p : s.getPoints()) {
4
       if (p.getX() > 0) {
 5 +
 6
         if (p.getY() < 0) {
 8
           tmp = tmp + 1;
9
10
11
12
     return tmp / getNumPoints(s);
13
14
15
```

Which one of the following best describes the purpose of this function? The function computes the **sum** of those points from the Shape s that have a

- positive X and a negative Y.
- The function computes the **sum** of those points from the Shape s that have a positive X or a negative Y.

The function computes the **percentage** of those points from the Shape s that

- The function computes the **percentage** of those points from the Shape s that have a **positive X** and a **negative Y**.

I, Ning Zheng, understand that submitting work that isn't my own may result in permanent failure of this course or

have a **positive X** or a **negative Y**.

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