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: <a href="http://www.dukelearntoprogram.com/course2/files.php">http://www.dukelearntoprogram.com/course2/files.php</a>.

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			
-------	--	--	--

1 point 2. What is the average length of a 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

4.00

1 point

3. 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

12.81

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

62.65

1 point What is the name of the file that has the shape with the largest perimeter from the six files dataset1.txt, dataset2.txt, dataset3.txt, dataset4.txt, dataset5.txt, and dataset6.txt?

- dataset1.txt
- dataset2.txt
- dataset3.txt
- dataset4.txt

dataset5.txt

dataset6.txt

point

The method getNumPoints returns the number of points in a Shape s.

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

Which one of the following is NOT a correct implementation of getNumPoints?

1 - public int getNumPoints (Shape s) {

```
int count = 0;
for (Point p : s.getPoints()) {
    count = count + count;
}
return count;
}

public int getNumPoints (Shape s) {
```

int count = 0;
for (Point p : s.getPoints()) {
 count = count + 1;
}
return count;
}

1 = public int getNumPoints (Shape s) {
 int count = 0;

```
int newPoint = 1;
count = count + newPoint;
}
return count;

public int getNumPoints (Shape s) {
  int count = 0;
  int newPoint = 1;
}
```

int count = 0;
int newPoint = 1;
for (Point p : s.getPoints()) {
 count = count + newPoint;
}
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;
3 → for (Point p : s.getPoints()) {
4
       if (p.getX() > 0) {
5 -
6
       if (p.getY() < 0) {
8
          tmp = tmp + 1;
10
11
     return tmp / getNumPoints(s);
12
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 **percentage** 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
- have a **positive X** or a **negative Y**.

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

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