Calculating the Perimeter of a Shape

Quiz, 7 questions

6/7 points (85%)

Congratulations! You passed! Next Item

1 / 1 points

1. What is the perimeter of 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

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0 / 1 points

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

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1 / 1 points

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

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1 / 1 points

4. 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)?

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1 / 1 points

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

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1 / 1 points

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

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

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1 / 1 points

7. Consider the following code for the function mysteryShape that has one parameter a Shape s and calls the function getNumPoints from the assignment.

```
public double mysteryShape (Shape s) {
  double tmp = 0;
  for (Point p : s.getPoints()) {

    if (p.getX() > 0) {

      if (p.getY() < 0) {
        tmp = tmp + 1;
      }
    }
  }
  return tmp / getNumPoints(s);
}
```

Which one of the following best describes the purpose of this function?