

CSE 213 – Homework 5 Rubric

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Problem	Score	Total
Style Guidelines (7 points)		7
Submission is named cse213_<firstname>_<lastname>_hw5.tar.gz	1	1
Packages are named: oop.<firstinitial><lastname>.hw5.<number> where <number> is the problem number	0	1
Code follows Google's style guide reasonably well, and uses four-space indentation	5	5
Moveable.java		4
public void setPosition(double x, double y);	1	1
public void setPolar(double r, double t);	1	1
public void move(double x, double y);	1	1
public void movePolar(double r, double t);	1	1
Shape.java		1
public abstract class Shape implements Movable, Cloneable	1	1
Point.java		9
public class Point implements Movable, Cloneable	1	1
setPosition() sets the x and y coordinates	2	2
setPolar() sets the radius and angle	2	2
move() adds offsets to the x and y coordinates	2	2
movePolar() adds offsets to the radius and angle	2	2
Rectangle.java		20
setPosition() sets the x and y coordinates of the lower left corner, then sets the upper right to (x + width, y + height)	4	4
setPolar() sets the radius and angle of the lower left corner, then sets the upper right to (x + width, y + height)	4	4
move() adds offsets to the x and y coordinates of the lower left corner, then sets the upper right to (x + width, y + height)	4	4

movePolar() adds offsets to the radius and angle of the lower left corner, then sets the upper right to (x + width, y + height)	4	4
clone() calls super.clone(), then clones both the lower left and upper right points	4	4
Circle.java		16
setPosition() sets the x and y coordinates of the center point	0	3
setPolar() sets the radius and angle of the center point	0	3
move() adds offsets to the x and y coordinates of the center point	0	3
movePolar() adds offsets to the radius and angle of the center point	0	3
clone() calls super.clone(), then clones the center point	4	4
ShapeAreaComparator.java		5
public class ShapeAreaComparator implements Comparator<Shape>		1
compare(a, b) returns -1, 0, or 1 if the area of a is less than, equal to, or greater than that of b		4
ShapePerimeterComparator.java		5
public class ShapePerimeterComparator implements Comparator<Shape>	1	1
compare(a, b) returns -1, 0, or 1 if the perimeter of a is less than, equal to, or greater than that of b	4	4
Author.java		7
public class Author implements Comparable<Author>	1	1
a.compareTo(b) compares by lastName, then firstName, then middleInitial	3	3
a.compareTo(b) returns -1, 0, or 1 if a is less than, equal to, or greater than b, respectively	3	3
Library.java		26
main() prompts the user for a file name	2	2
Catches the exception if the given file cannot be read, and prompts again (in a loop) until a valid file is given	5	5
Parses every pair of lines into a Book, and collects them into an ArrayList	5	5
Prompts the user to sort by author, title, or year	2	2
Creates different Comparators depending on the user's input	5	5
Sorts the ArrayList of Books with the correct Comparator	5	5
Points the ArrayList in sorted order	2	2

Total Score	99	100
Comments: One side note, in your Author.java class you used String.strip(). But that function is not in java 8 which is the version the class requires. I changed it to trim() (which is in java 8). In the future just try and avoid using methods not in the correct version.		