elijahkorneffel@Elijahs-MacBook-Pro  ~/Git/CS2261-JAVA/Project1   02\_11\_19 ●  script InCircleOutput

Script started, output file is InCircleOutput

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//This program executes ex3.29

import java.util.Scanner;

import java.lang.Math;

public class InCircle

{

public static void main(String[] args)

{

Scanner input = new Scanner(System.in);

System.out.print("Enter circle1 info in format x-coord, y-coord, radius: ");

double x1 = input.nextDouble();

double y1 = input.nextDouble();

double radius1 = input.nextDouble();

System.out.print("Enter circle2 info in format x-coord, y-coord, radius: ");

double x2 = input.nextDouble();

double y2 = input.nextDouble();

double radius2 = input.nextDouble();

String response = computeResponse(x1, y1, radius1, x2, y2, radius2);

System.out.print(response);

}

//This method discovers if a circle is overlapping, inside, or neither relative to another given circle. It then returns the info.

public static String computeResponse(double x1, double y1, double radius1, double x2, double y2, double radius2)

{

double distance;

distance = Math.sqrt(Math.pow(x2 - x1, 2) + Math.pow(y2-y1, 2));

if(distance <= radius1 - radius2)

{

return "Circle2 is inside circle1.";

}

else if(distance <= radius1 + radius2)

{

return "Circle2 is overlapping circle1.";

}

else

{

return "Circle2 is neither inside or overlapping circle1.";

}

}

}

elijahkorneffel@Elijahs-MacBook-Pro  ~/Git/CS2261-JAVA/Project1   02\_11\_19 ●  javac InCircle.java

elijahkorneffel@Elijahs-MacBook-Pro  ~/Git/CS2261-JAVA/Project1   02\_11\_19 ●  java InCircle

Enter circle1 info in format x-coord, y-coord, radius: 0.23 0.1 2

Enter circle2 info in format x-coord, y-coord, radius: 0 0 1.1

Circle2 is inside circle1.%

elijahkorneffel@Elijahs-MacBook-Pro  ~/Git/CS2261-JAVA/Project1   02\_11\_19 ●  java InCircle

Enter circle1 info in format x-coord, y-coord, radius: 0.0 0.0 2

Enter circle2 info in format x-coord, y-coord, radius: 5.2 2.1 1

Circle2 is neither inside or overlapping circle1.%

elijahkorneffel@Elijahs-MacBook-Pro  ~/Git/CS2261-JAVA/Project1   02\_11\_19 ●  java InCircle

Enter circle1 info in format x-coord, y-coord, radius: 0.0 0.0 2

Enter circle2 info in format x-coord, y-coord, radius: 2.1 1.2 3

Circle2 is overlapping circle1.%

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Script done, output file is InCircleOutput