Methods Practice Problems

1. Write a method that calculates the slope of a line, given the coordinates x1, y1, x2, y2 of two points on the line.

Example input: 1, 2, 9, 8Expected output: 0.75Example input: 10, 10, -30, 30Expected output: -2.0

2. Write a method that accepts three doubles and returns the greatest double. Hint: check the java Math API for a method that will help with this.

Example input: 1.5, -3, -4.5	Expected output: 1.5
Example input: 10, 10, 3	Expected output: 10

3. Write a method that accepts three integers and checks whether or not they are consecutive.

Example input: 1, 3, 4	Expected output: false
Example input: 9, 10, 11	Expected output: true
Example input: 20, 19, 18	Expected output: true

4. Write a method that checks whether a given year is a leap year. Leap years are divisible by 4, except for end of century years which must be divisible by 400.

Example input: 2000	Expected output: true
Example input: 100	Expected output: false
Example input: 2017	Expected output: false