

Name(s): _____

1. Write a method that receives a String as a parameter and returns a new String containing each letter that appears in the String followed by how many times that letter appears in the String.

For example: Considering that the method will receive as a parameter the String "blueberry", it will return the following String "b2l1u1e2b2e2r2y1".

Tip:

- First think about what do you need to do in order to solve this problem (write a sequence of steps in English).
 - When you have that clear in your mind, translate your steps to Java and write the code.
2. Write a method that continues to prompt a user to enter a number in the following interval [1-12]. When the user enter a number in that interval, return that number. Which loop kind of loop are you thinking of using?

3. Considering the following problem:

Write a program that reads infinite positive numbers. When zero or a negative number is read, the program stops and prints the maximum value entered.

Which loop is the most appropriate to implement this program?

- Using a for loop
- Using a while loop
- Using a do...while loop

Explain your decision.