Backend Technical Interview - Java

This is your first day working at NewRelic and a task named: "Refactor metric-consumer" has been assigned to you

You will find the current metric-cosumer code in the **metric-consumer.zip** file. It contains:

- the `input.txt` file with some metric values. This file is used for testing. Metrics are represented in the following format: <timestamp> <metric-name> <value>

  ```
  1650973075 cpu 47
  1650973087 cpu 47
  1650973099 mem 737917
  1650973111 cpu 50
  ```
- The `Main.java` class creates the metric-consumer and tests it with the previous `input.txt` file. As a result, an `output.txt` file is created
- The `MetricConsumer.java` class is the actual code
- Other `gradle` files for compiling and running the application

We ask you to do 3 simple things:

1. Read the code and try to understand it.
2. Refactor the application to make it more readable and easier to modify.
3. Modify the metric-consumer in order to be able to process multiple metrics in parallel.

We understand that the exercise may seem time-consuming, but we kindly suggest you to dedicate **an hour** for it. Please bear in mind that this exercise is designed as a springboard to facilitate a more engaging and insightful technical discussion. Your time and efforts are greatly appreciated.

Testing the code

For running the code just execute: `./gradlew run`

This command will:
- Run the code
- Write the output.txt file with the result
- Provide some information about the time it took to process all data

For testing the result just execute `diff expected_output.txt output.txt` if there are no differences, nothing will be written in the script

You will need Java 11 or higher