## SimpleNem12Parser

## **Task**

- Expected duration: 3-4 hours
- Requires Java 8
- Solution can be in Java (preferably Java8) or Groovy

NEM12 is a file format used to represent read data from smart meters.

You are given a sample of a simplified version of the NEM12 file. You are also given the domain model to represent the data in this file. Here are more details.

Refer to comments for following files.

- EnergyUnit.java
- MeterRead.java
- MeterVolume.java
- Quality.java
- SimpleNem12Parser.java
- TestHarness.java

## SimpleNem12.csv format specifications

• You can assume, for this exercise, that no quotes or extraneous

commas appear in the CSV data.

- First item on every line is the RecordType
- RecordType 100 must be the first line in the file
- RecordType 900 must be the last line in the file
- RecordType 200 represents the start of a meter read block.
  This record has the following subsequent items (after RecordType).

You can assume each file does not contain more than one RecordType 200 with the same NMI.

- NMI String ID representing the meter on the site, modelled in MeterRead.nmi. Value should always be 10 chars long.
- EnergyUnit Energy unit of the meter reads, modelled in EnergyUnit enum type and
   MeterRead.energyUnit. Value should always be KWH.
- RecordType 300 represents the volume of the meter read for a particular date. This record has the following subsequent items (after RecordType).

You can assume each file does not contain more than one RecordType 300 with the same date.

- Date In the format yyyyMMdd (e.g. 20170102 is 2nd Jan, 2017). Modelled in MeterRead.volumes map key.
- Volume Signed number value. Modelled in MeterVolume.volume.
- Quality Represents quality of the meter read, whether it's Actual (A) or Estimate (E). Value should always be A or E. Modelled in MeterVolume.quality

Your task is to create a new class (e.g. SimpleNem12ParserImpl) that implement interface SimpleNem12Parser.

You cannot modify SimpleNem12.csv. Any changes to the provided domain model is fine though it shouldn't be necessary.

Please send your submission to <a href="mailto:tommy.li@redenergy.com.au">tommy.li@redenergy.com.au</a> either in a zip file or online source code sharing services such as GitHub or Bitbucket.