

2019 Java Coding Competition Finals

The Problem

Congratulations on your success with the initial skill test completed for SF Analysis. We would like to give you a little more flexibility with your new assignment. The company has gained access to a new subset of data (10,000 records related to the insurance industry). We don't have specific requirements at this moment in time, but we are interested in using your work to showcase the potential benefits of our data mining services to interested companies.

The new data contains the following information:

- Policy type - [Renters, Private Passenger]
- Policy status - [active, cancelled by policy holder, cancelled by company]
- State - [AL, AK, IL, IN, MI, WY, etc.]
- Annual Premium Amount
- Age
- Number of Accidents

In the workspace provided, you will find the Analyzer class is already reading in the .csv file. Your job is to implement methods to make sense of the data and/or create reporting or a GUI to showcase your work. You can also pull in natural disaster data provided by <https://ourworldindata.org/natural-disasters> that was used for the online if you find it to be useful in your analysis.

Examples of data we could be interested in:

- Number of renter policies cancelled by policy holder
- Active Private Passenger policies in TX with 2 or more accidents when age > 65

When you are done:

- Update the feedback.txt file and include the following information:
 - Names
 - Document and describe the features included, to help the judges properly grade your submission and explain how to properly execute.

Rules

- Contestants cannot seek help from individuals outside their team.
- Teams must only use the computers provided and set up for the competition. JDK 8 is now installed for your use. You may use the internet to do searches about JAVA functionality, but we **do not** want you to download a data analytics tool to process the data. We want to see what type of features you can provide using JAVA to manipulate the data.

How you will be graded

The finals competition is broken up into three sections of grading.

Initial Online Competition – 33%

Presentation – 33%

Finals Code review – 33%

- code cleanliness
- maintainability
- adherence to object-orientated principles