Coursera Java Training

The courses are meant to be completed in a linear order, so Solving Problems with Software, then Arrays, Lists and Structured Data and then Java Programming Design Principles.

*Solving Problems with Software*

Week 1

* Batch greyscale
* Image Inversion
* Quiz

Week 2

* STARTED - Finding a Gene
* STARTED - Finding Web links
* Finding All Genes
* Storing All Genes
* Quiz

Week 3

* Parsing Export Data
* Parsing Weather Data
* Quiz

Week 4

* Mini Project

*Arrays, Lists and Structured Data*

Week 1 *- overdue*

* Implementing the Caesar Cipher
  + Word Play
  + Caesar Cipher
* Breaking the Caesar Cipher
  + Word lengths
  + Caesar Cipher Two Keys Decrypt
* Object Oriented Caesar Cipher
  + One Key
  + Two keys
* Quiz

Week 2

* Telling a Random Story
* Using and improving Gladlibs
* Quiz

Week 3

* Reading log files
* Finding unique IP Addresses
* Counting website visits
* Quiz

Week 4

* 3 Programming Exercise
* Quiz

*Java Programming Design Principles*

Week 1 *- overdue*

* Searching Earthquake Data
  + Filtering by Magnitude and Distance
  + Filtering by Depth
  + Filtering by Phrase in Title
  + Finding the Closest Earthquake to a location
  + Finding the Largest Magnitude Earthquakes
* Filtering Data
  + Implementing filters
  + Match All Filter and Modification to the Interface
* Quiz

Week 2

* Implementing Selection Sort
* Sorting at Scale
* Quiz

Week 3

* Generating Random Text
* Interface and Abstract Class
* Word N-Grams
* Word Grams Class
* Quiz

Week 4

* Mainstream Java
* Quiz