WEEK 01

1. Readings

- A Study in Algorithms Prependix
- Programming Erlang:Software for a Concurrent World 2nd Edition Chapters 3 and 4. (Available for free online in the BYU-Idaho library)

2. Preparation for Tasks (Individual)

If, and *only if* you can truthfully assert the truthfulness of each statement below are you ready to start the tasks for this week.

2.1. Reading Comprehension Self-Check.

- I know the difference between a variable and an atom.
- I know variables are immutable.
- I know how to prepend elements to a list.
- I know how to remove the first item of a list.
- I know the difference between a function and a fun.
- I know how to write a function with parameters and a value.
- I know how to write a recursive function with parameters and a value.
- I know how to write a fun with parameters and a value.
- I know why Erlang programmers write functions that have a *fun* as a parameter.
- I know Erlang's map, filter, and reduce functions.

2.2. Memory Self-Check (Individual).

2.2.1. Code. Use Erlang to create working versions of two of the algorithms for which pseudocode is in Functional Levitin - Things to Know.

3. Week 1 Tasks (Team)

3.1. **Code.** Use Erlang to create working versions of all the algorithms for which pseudocode is in *Functional Levitin - Things to Know* and *Functional Levitin - Chapter 1*.

Date: January 2, 2023.