Unit 3: Study Guide

You should be able to:

- Compare natural & programming languages in general terms and justify (explain) the significant differences.
- Trace simple programs & functions to:
 - Predict output
 - Correct errors (add or remove lines of code)
- Work with functions:
 - How to define & call (recognize the code for each)
 - Choosing good names for functions & their parameters
 - Functions can call other functions
 - Function parameters
 - Why creating parameterized functions is valuable
 - How to define a function with parameters
 - How to call a function with parameters
- Loops:
 - How to write a loop
 - Predict what will happen when the loop is executed
 - Predict how many times the loop will iterate
- Loops vs. Functions
 - When to use loops (when is a loop sufficient to accomplish your goal)
 - When to use functions (when is a function required, or at least strongly suggested)
- Abstraction
 - How functions enable higher levels of abstraction
 - · How does abstraction enable programming teams to work together more effectively
- Top down design (TDD):
 - · Describe the process
 - Provide examples of TDD, given a simple problem
 - Explain how TDD helps programers organize their work and develop abstractions.

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