

Module 3 Study Questions

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Due No Due Date **Points** 0 **Submitting** a file upload

Submit brief answers to the following questions. This assignment will not be graded, though I will review your answers to check your progress. Complete this assignment and save it in a .txt format. Please be sure to include your last name and the course number in the file name, like so: **[your name], X436.2, Module 3 Study**. Then, submit upload your .txt document by clicking submit on the right hand side of your screen.

1. Compare and contrast the use of local variables against global variables (or class variables).
2. Why is strict type checking useful? Also, can you name examples where it could be a hindrance?
3. The word "algorithm" roughly means a step-by-step description of how to do some task. Many algorithms are famous enough to have names: quicksort, heapsort, Shell sort, Fast Fourier Transform (FFT). Have you ever read a description of any of these? Which ones? Can you think of others?
4. Many programmer hours are wasted optimizing programs that suffer not so much from inefficient implementation as from poor choice of algorithms. Sorting programs offer up some of the best examples. How could you measure the efficiency of a sorting algorithm?