

CDA 3103 Computer Organization

Homework #1: Chapter 1 Problem Set

Assigned: Thursday, Jan. 9, 2014

Due: 11:59pm on Canvas, Jan. 15, 2014

1 Problem set

1. (5 pts.) What are the main components of a computer?
2. (5 pts.) What role did Charles Babbage play in computing history? how about Ada Lovelace?
(some answers may not be found in your textbook)
3. (5 pts.) What is Moore's law? How about Rock's Law?
4. (5 pts.) What is the fetch-decode-execute cycle? What is happening in the "decode" part of this cycle?
5. (30 pts.) Please answer questions 2, 7, 10, 11, 12, and 13 at the end of Chapter 1 (in the Exercises section beginning on p. 44).

2 Submission

The following requirements are for your electronic submission to Canvas:

- Your work should be in a single file with a file named **lastname.firstname-hw1**.
- You may write some solutions out by hand, but please scan those solutions into an electronic document. If the writing is not legible, then loss of credits may occur (my interpretation of an answer will be accepted as the correct one if the answer is not legible).
- **Only submissions in the designated location on Canvas are graded. Submissions in any other forms will be ignored.**