CprE 381 Homework 9

[Note: This homework is meant to help you form insights regarding the principles behind caches.]

1. Principle of Locality

- a. Write a valid MIPS assembly program that executes at least 20 instructions and demonstrates spatial locality in instruction fetching, but not data accesses. Explain this locality in the assembly comments.
- b. Write a valid MIPS assembly program that executes at least 20 instructions and demonstrates temporal locality in data accesses, but not instruction fetching. Explain this locality in the assembly comments.
- 2. Cache Configuration and Simulation
 - a. P&H (Textbook) 5.2.1, 5.2.2, 5.2.3, 5.2.6