Lab 2 (Prelab): Bubble Sort with VerySimpleCPU

Objective

Introduce array access and looping concepts in assembly, general practices for programming VerySimpleCPU.

Background

B1: Bubble Sort

Bubble sort repeatedly compares pairs of elements and swaps them if needed. Bubble sort is organized as a series of passes. In these passes, you compare the 1st and 2nd elements and swap if out of order; then the 2nd and 3rd elements; and so on. At the end of the first pass, the largest element is guaranteed to be at the end of the array.

What To Do

In this prelab, you will write **low level C** code that sorts the numbers in **ascending order** using **bubble sort.**

- 1. Download lab2_hi.c file from LMS.
- 2. Open and analyze the lab2_hi.c file with a text editor. (I suggest you download notepad++.)
- 3. Create a new file called lab2_low.c
- 4. Type your codes to the lab2_low.c file.
 - a. Every line contains one operation
 - b. Use "goto" and labels for branch (no curly bracer {})
 - c. Use pointer (*) for indicate direct access (such as a[m] in low level *(a+m))

Submission Information

This is an exercise, there is no submission.