

## Lab 2: Bubble Sort with VerySimpleCPU

In this lab, you will write a VerySimpleCPU assembly program that implements the Bubble Sort algorithm in ascending order.

### Steps:

1. Download Lab2.asm and lab2\_low.c file from LMS.
2. Open and analyze lab2.asm with a text editor. (I suggest you download notepad++.)
3. Add your assembly code instructions equivalent to commented lines.
4. Run the code using VerySimpleCPU.exe or [www.VerySimpleCPU.org](http://www.VerySimpleCPU.org) (steps 6 to 10 for VerySimpleCPU.exe)
5. Open the command prompt (shift+right click in the folder )
6. Type "VerySimpleCPU.exe lab2.asm r" then press ENTER
7. Type "exit" then press ENTER again
8. The ISS displays the affected memory locations before and after every instruction.
9. Look at "memoutd.txt". It displays the final memory contents.
10. If your code does not work correctly (do not sorted in ascending order), debug it.
11. Upload it onto LMS.