**CSCE 330 Fall 2005**

PROGRAM 1

Assigned Friday, 2005-10-07. Due Monday 2005-10-17

1. Load Euclid's algorithm (Figures 2.12 and 2.13 in the textbook) in Simplesem and run it. Single step to understand how it works.
2. Explain carefully which Simplesem instructions translate the while loop in Euclid's algorithm.
3. Write a proof of correctness of Euclid's algorithm.
4. Turn in a screen dump of Simplesem running Euclid's algorithm, the explanation of how the while loop is translated, and the proof of correctness.