Assignment #4  Due: Thursday, Feb 17, 2005.

Problem 1 (10 pts)  Explain what you understand are the main differences between confidentiality policies and integrity policies.

Problem 2 (10 pts)  How would you compare the Biba integrity models and the Clark-Wilson integrity model.

Problem 3 (20 pts)  List the two or three most significant new insights you took away from the Clark-Wilson paper and the most significant flaws or weaknesses of it (if any).

Problem 4  Read the following two papers (available from the course syllabus page, Readings for Feb 10):


And do the following:

a. (10 pts)  Sandhu says “It is easy to see that the BN write rule has the following implication: (1) A subject which has read objects from two or more company datasets cannot write at all. (2) A subject which has read objects from exactly one company dataset can write to that dataset. Explain why.

b. (50 pts)  Rephrase Sandhu’s approach of implementing the Chinese Wall Policy using the Bell-LaPadula model.