

**CS 4390/5353**  
**Quantum Computing**  
**Home Assignment 15**  
Due November 17, 2009

15. Pick two  $4 \times 4$  matrices and multiply them, step by step, by using two different algorithms:

- first, by using the standard matrix multiplication algorithm;
- second, by representing each of the two matrices as a matrix of matrices (array of arrays), as we saw in class.