

Scientific Computing, Courant Institute, NYU, Fall 2006
Assignment 1, due Feb. 2.

Do programming problems 8 and 9 of *Sources of Error*. These are the ones about Fibonacci numbers and binomial coefficients. Read the *Software* section of the notes carefully and follow its guidelines for graphics. The programs will have to use C/C++ (one or the other) because both questions call for comparing single and double precision, which cannot be done in Matlab.

To hand in: Hand in printouts of the programs you use. If the assignment calls for several minor modifications of the code, you may hand just one of the versions. Also hand in the output and graphs called for together with a writeup that answers whatever questions were asked and describes the results. The writeup can be hand written or typed, but handwriting usually is easier for everyone.

Programming standards: Pay attention to programming style. Your code should be well documented with comments and clear variable names. It should use indentation and white space (blanks and blank lines) to make the code structure clear. It should be modular and use well chosen procedures. Your assignment will be graded in part for code quality.

Collaboration: You are allowed to consult outside sources and your classmates with doing the assignments. You must type every line of whatever code you hand in and do all writing yourself.