5627: HW2

- 1. Cholesky decompostion
 - **1.1.** Write and test your own Cholesky decomposition code. Make sure you explain the output format of your code.
 - **1.2.** Make sure your code tests for +Def and Symmetry.
 - **1.3.** Make a log-log plot of the timing for your code with an aproppriate reference line.
- 2. Symmetric +Def Solver
 - 2.1. Combine your Cholesky decomposition and Lower Triangular solve into a function "CholeskySymSolver[A,b]" that returns the solution of Ax = b for a symmetric +Def matrix A.
 - 2.2. Test this code appropriately.
 - **2.3.** Make a log-log plot of the timing for your code with an aproppriate reference line and the timing for a built-in solver on the same graph.