You may look on the web or ask a friend for help, but make sure you state/cite what help you have had in completing the assignment. Ensure that you could answer similar questions on a test by yourself. Hand-written submissions are fine, but they must be readable and submitted during lab hours from 2-3pm on Wednesday. Electronic submissions can be emailed to mstrout@cs.colostate.edu sometime before Wednesday, February 9th midnight. Total points: 100

1. [50 Points] FIRST and FOLLOW sets.
   For the following grammar:
   
   (1) start -> mesh EOF
   (2) mesh -> NUM nodelist
   (3a) nodelist ->
   (3b) nodelist -> nodelist node
   (4) node -> NODE NUM REAL REAL

   write a table with the FIRST, FOLLOW, and optionally the nullable sets for each of the nonterminals.

2. [50 Points] For the grammar in problem 1, write the parsing table as discussed in the “Top-down predictive parsing” notes on the class progress page and write the corresponding recursive descent, predictive parser if that is possible. If it is not possible to write a predictive parser, then explain why.