CS181: Programming Languages
Vladimir Vacic, Christos Koufogiannakis
University of California, Riverside

Lab Assignment 4

1.   Consider the following program, which is intended to define the third argument to
        be the maximum value of the first two numeric arguments:

        max(X,Y,X) :- X >=Y, !.
        max(X,Y,Y).

   a) Find a question to show that the above rule is incorrect
   b) Explain the cause of the error and suggest the correction

2.   Write a Prolog rule to reverse a list L into a list L1, using an intermediary list R
        that is initially empty.

3.   Implement a rule that computes the factorial on N using an accumulator.