CSE 341 — Scheme Discussion Questions

1. Suppose we bind the variables f, a, b, and c as follows:

   (define f '+)
   (define a 10)
   (define b (list f a 5))
   (define c (list f b b))

   What is the value of each of the following expressions?
   
   (a) f
   (b) a
   (c) (eval a)
   (d) b
   (e) (eval b)
   (f) (eval (eval b))
   (g) c
   (h) (eval c)

2. Given the above bindings for f and a, write a quasiquoted expression that does the same thing as

   (define b (list f a 5))

3. The built-in Scheme function \texttt{max} takes a variable number of arguments (at least 1). Write your own version \texttt{mymax}.