Programming in Lisp
Lecture #5: Class Activity

Name: Name:

1a. Write a macro "first-item" that produces the car of a list.

1b. Write a macro "rest-of-items" that produces the cdr of a list.

2a. Repeat exercise 1a, using backquote.

2b. Repeat exercise 1b, using backquote.

3. *Challenge!* Write a macro "for" which takes a variable, an intial value, a final value, and a list of expressions, and evaluates the expressions with the variable bound to each of the values in order. It should reset the variable to it's value before the macro call (no side effect), and it should return the binding of the variable at the highest iteration.