1.      Difference between Normal and Applicative order. Given code, draw the substitution models for each.  
2.      Difference between Lexical and Dynamic scoping. Given code, give the the resulting value of x for each  
;need to do 3.      What is a closure? Give a code example.  
4.      What is the difference between a linear recursive process and an iterative process? Give code examples of each.  
;do midterm examples

5.      Given some weird nested lambdas (similar to midterm), give the output value.

; practice these  
6.      Given a nested list and several statements (car, cdr, caddr, cadadr, etc.), give the output value.

;need to do   
7.      Write a procedure that takes a possibly nested list and returns the sum of all elements in that list.  
8.      Given code (Point object (x, y, getters, setters) using dispatch), draw a contour diagram part way through execution, and another at the end of execution.

countour diagram whats the output of dynamic and lexical? Examples in the notes

;do this   
9.      Implement a stack object with constructor, pop (also returns the element), push, empty?, print using dispatch.  
10.     Prolog Questions

a.      splitlist(N,L,R1,R2) takes a list, and returns a list with the first N elements (R1) and another list (R2) with the rest of the elements from L

b.      append(L,Z,R) write your own append (in the assignment); chapter 9 course notes

c.      sqrlist(L1, L2) checks if all elements in L2 are the squares of all elements in L1; mapping to a list,course notes