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;; Quiz 1
;; CSc 335 Spring 2024
;; Section M
;;

;; Name and Last 4:
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;; This is a closed book, closed notes, no devices quiz.  Even the sight of an
;; open phone or other device will result in your failing the quiz.

;; Write your answers on this sheet - if you use additional sheets, you'll need
;; to put your name and last 4 on those as well.


;; Problem 1 (2.5 points)

;; Develop and code a purely functional R5RS function reverse4 which inputs a
;; 4 digit number x and outputs the number y formed by reversing the digits of x.
;; Do not use recursion (or iteration).

;; Example: (reverse4 1234) = 4321

;; You will want to start by carefully considering the specification.


;; Problem 2 (2.5 points)

;; Diagram the environment resulting from the following sequence of definitions

(define (f x)
  (lambda (y)
    (lambda (z)
      (+ x y z))))

(define g (f 4))

(define h (g 5))

;; Show with an example how you would call the function h.  What value would your
;; call return?  What part of your diagram would persist after the call?
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