CSSE 304 Exam #2 Part 2 Oct 28, 2014 (day 28b) Name Solution Section (circle one): 01 02 03 04

You must turn in Parts 1 and 2 before you receive part 3 or use your computer.

Suggestion: Spend no more than 45 minutes on parts 1 and 2 ; the computer part is nontrivial.

Problem	Possible	Earned
Total	30	

I have drawn the environments and closures created during the execution of the following code segments. You are to fill in all of the missing parts (environment pointers in closures and environments, values of all variables in environments).

Also write a sequence number in front of each environment or closure, indicating the order in which they are created.

I have printed extra copies of this page in case you mess up the diagram so badly that you need to start over. If what you write here becomes messy and hard-to-read, feel free to turn this in and exchange it for a new, feel free to start over with a fresh copy of part 2; you can exchange this paper for a new one.

```
(let ([curry3
       (lambda (f)
         (lambda (x)
           (lambda (y)
             (lambda (z)
               (f x y z))))))])
  (let* ([a (curry3 (lambda (f g h) (* f (+ g h))))]
         [b (a 2)]
         [c (b 3)])
    (c 4)))
```