**CSSE 304 Exam #2 E&C Fall 202210 Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Section:** 02(11:00) 03(3:00)

(20 points) Draw the environments and closures created during the execution of the following code segment. Include a sequence number for each new environment, new closure, or global environment change.

If you need to start over, use the back, and put a big X through what you wrote here.

Value returned by the expression: \_\_\_\_\_\_\_\_\_\_\_

|  |
| --- |
| (define mycombine      (let ([succ (lambda (sval) (add1 sval))]            [pred (lambda (pval) (sub1 pval))])          (lambda (x y)              (if (zero? x) y (mycombine (pred x) (succ y))))))  (mycombine 1 1) |

Only write on this page if you have already attempted to solve it on the front and have crossed out your solution there.

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Value returned by the expression: \_\_\_\_\_\_\_\_\_\_\_

|  |
| --- |
| (define mycombine      (let ([succ (lambda (sval) (add1 sval))]            [pred (lambda (pval) (sub1 pval))])          (lambda (x y)              (if (zero? x) y (mycombine (pred x) (succ y))))))  (mycombine 1 1) |

**This page is provided for your reference, but please do not write your solution on this page**

