

California Institute of Technology
Department of Computer Science
Introduction to Computation

CS1, Fall 2007

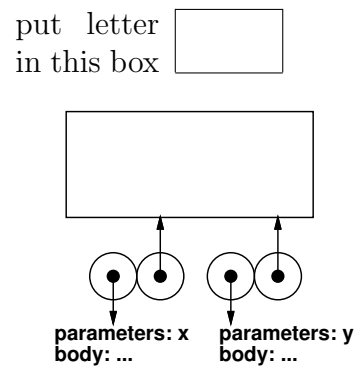
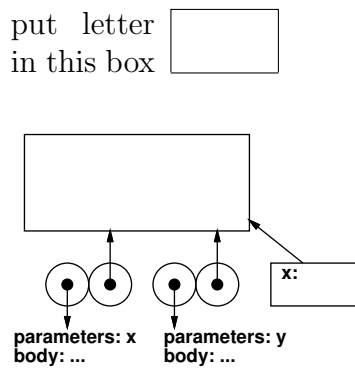
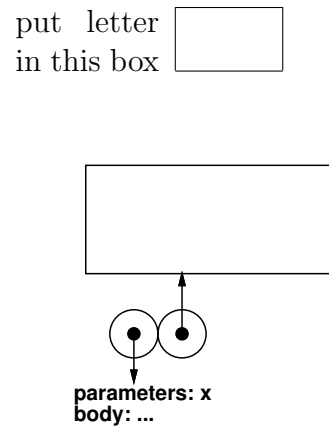
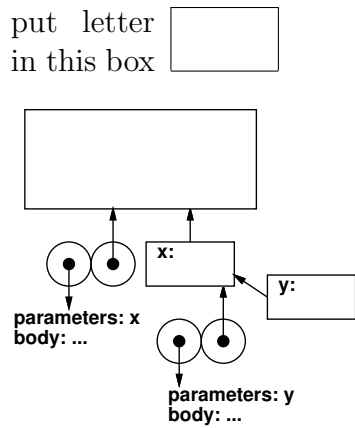
Daily Quiz #15

November 19, 2007

Due: end of class **today**

1. [0.1] Who are you? Give your CS Username: _____
2. [0.4] Match code segments with associated environments [0.1 points each]:
 - (a) `(define (f x) (+ x 1))`
`(define (g y) (* y y))`
 - (b) `(define (f x) (+ x 1))`
`(define (g y) (* y y))`
`(f (g 2)) ; ; identify environment during the application of f`
`; ; e.g. when evaluating (+ x 1)`
 - (c) `(define (f x)`
`(lambda (y)`
`(+ (* y y) x)))`
 - (d) `(define (f x)`
`(lambda (y)`
`(+ (* y y) x)))`
`((f 1) 2) ; ; identify environment when evaluating (+ (* y y) x))`

Turn page over.



(These diagrams show all procedure pairs and frames, but intentionally omit a few other details; the distinct environment shape resulting from the procedure pairs and frame structure are more than sufficient to uniquely determine each case.)

3. Please answer the lecture feedback questions.