

```

> (eval-one-exp '((lambda (x) x) 4))
>(eval-exp
 '(app-exp ((lambda-exp (x) (var-exp x)) (num-exp 4)))
 '(empty-env-record))
> (eval-exp '(lambda-exp (x) (var-exp x)) '(empty-env-record))
< '(closure (x) (var-exp x) (empty-env-record))
> (eval-exp '(num-exp 4) '(empty-env-record))
< 4
>(apply-proc '(closure (x) (var-exp x) (empty-env-record)) '(4))
>(eval-exp '(var-exp x) '(extended-env-record (x) #(4)
 (empty-env-record)))
>(apply-env '(extended-env-record (x) #(4) (empty-env-record)) 'x)
<4
4
> (eval-one-exp '(((lambda (x) x) (lambda (y) y)) 4))
>(eval-exp
 '(app-exp
 ((app-exp ((lambda-exp (x) (var-exp x)) (lambda-exp (y)
 (var-exp y))))
 (num-exp 4)))
 '(empty-env-record))
> (eval-exp
 '(app-exp ((lambda-exp (x) (var-exp x)) (lambda-exp (y)
 (var-exp y))))
 '(empty-env-record))
> >(eval-exp '(lambda-exp (x) (var-exp x)) '(empty-env-record))< <'(closure (x)
 (var-exp x) (empty-env-record))
> >(eval-exp '(lambda-exp (y) (var-exp y)) '(empty-env-record))
< <'(closure (y) (var-exp y) (empty-env-record))
> (apply-proc
 '(closure (x) (var-exp x) (empty-env-record))
 '((closure (y) (var-exp y) (empty-env-record))))
> (eval-exp
 '(var-exp x)
 '(extended-env-record
 (x)
 #((closure (y) (var-exp y) (empty-env-record)))
 (empty-env-record)))
> (apply-env
 '(extended-env-record
 (x)
 #((closure (y) (var-exp y) (empty-env-record)))
 (empty-env-record))
 'x)
< '(closure (y) (var-exp y) (empty-env-record))
> (eval-exp '(num-exp 4) '(empty-env-record))
< 4
>(apply-proc '(closure (y) (var-exp y) (empty-env-record)) '(4))
>(eval-exp '(var-exp y) '(extended-env-record (y) #(4)
 (empty-env-record)))
>(apply-env '(extended-env-record (y) #(4) (empty-env-record)) 'y)
<4
4

```