

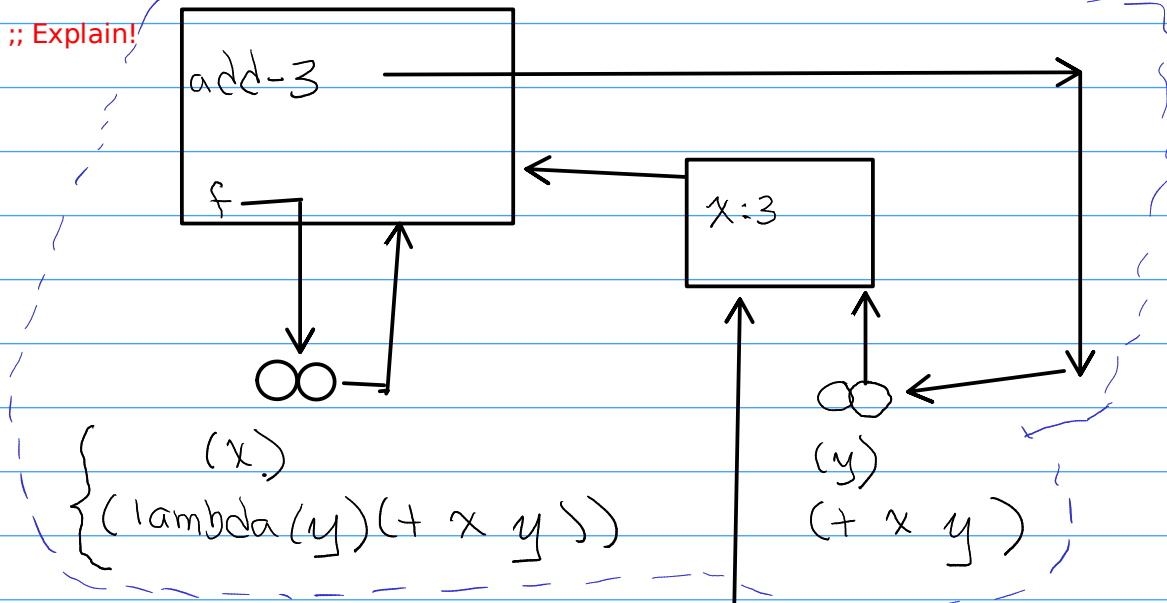
First Question

;; Work out the environment diagram for

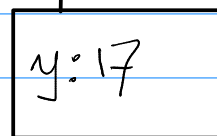
```
(define (f x)
  (lambda (y) (+ x y)))
```

```
(define add-3 (f 3))
```

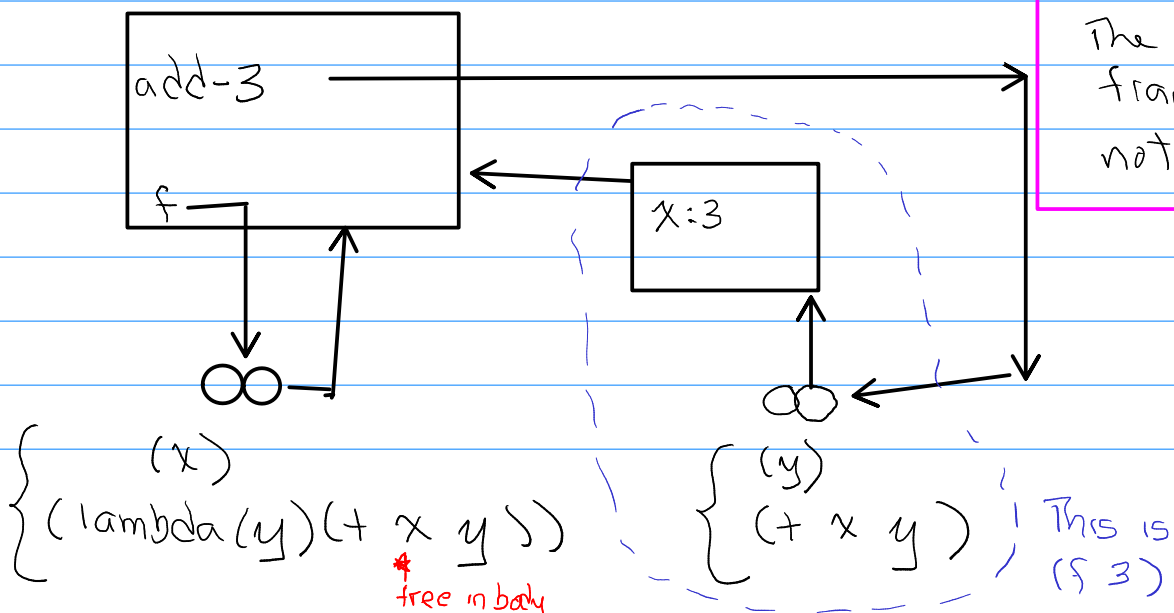
;; Explain!



What happens when now we call `(add-3 17)`?

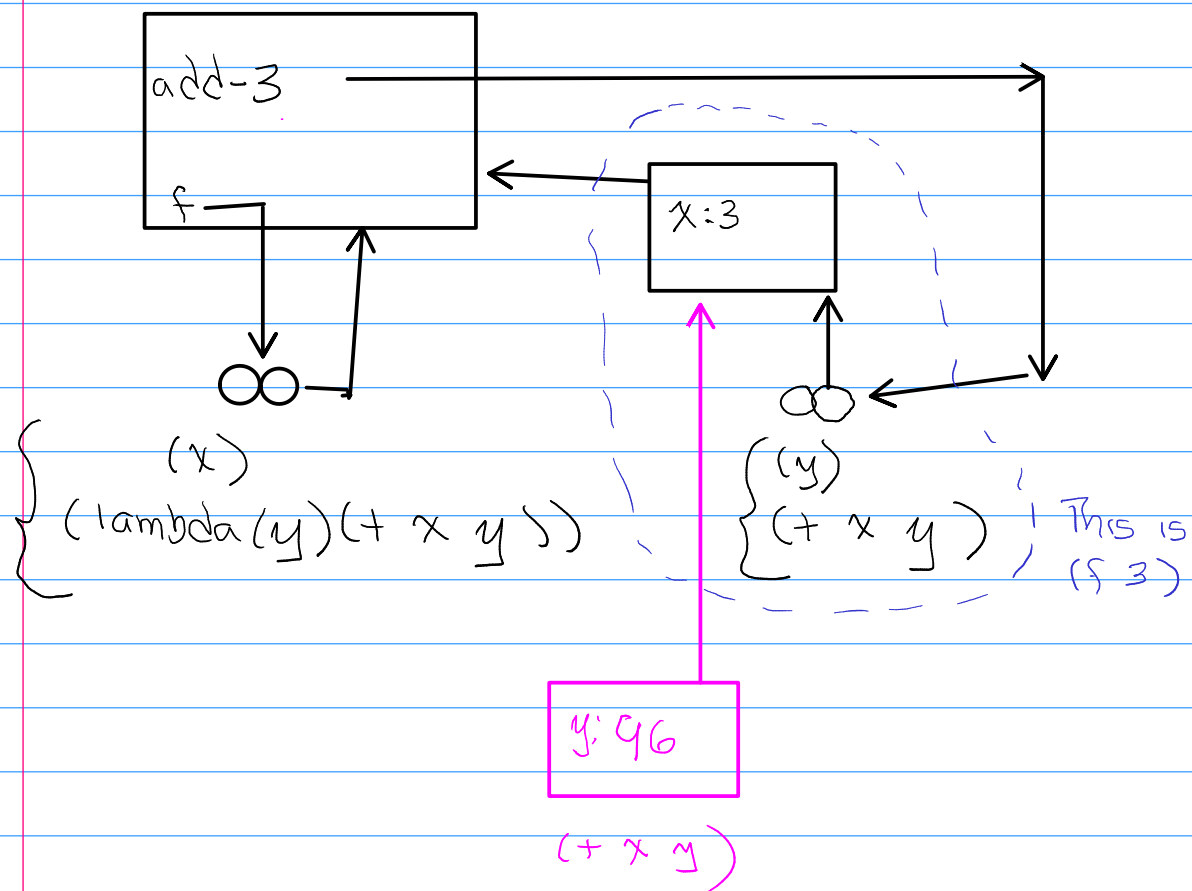


And... after garbage collection?

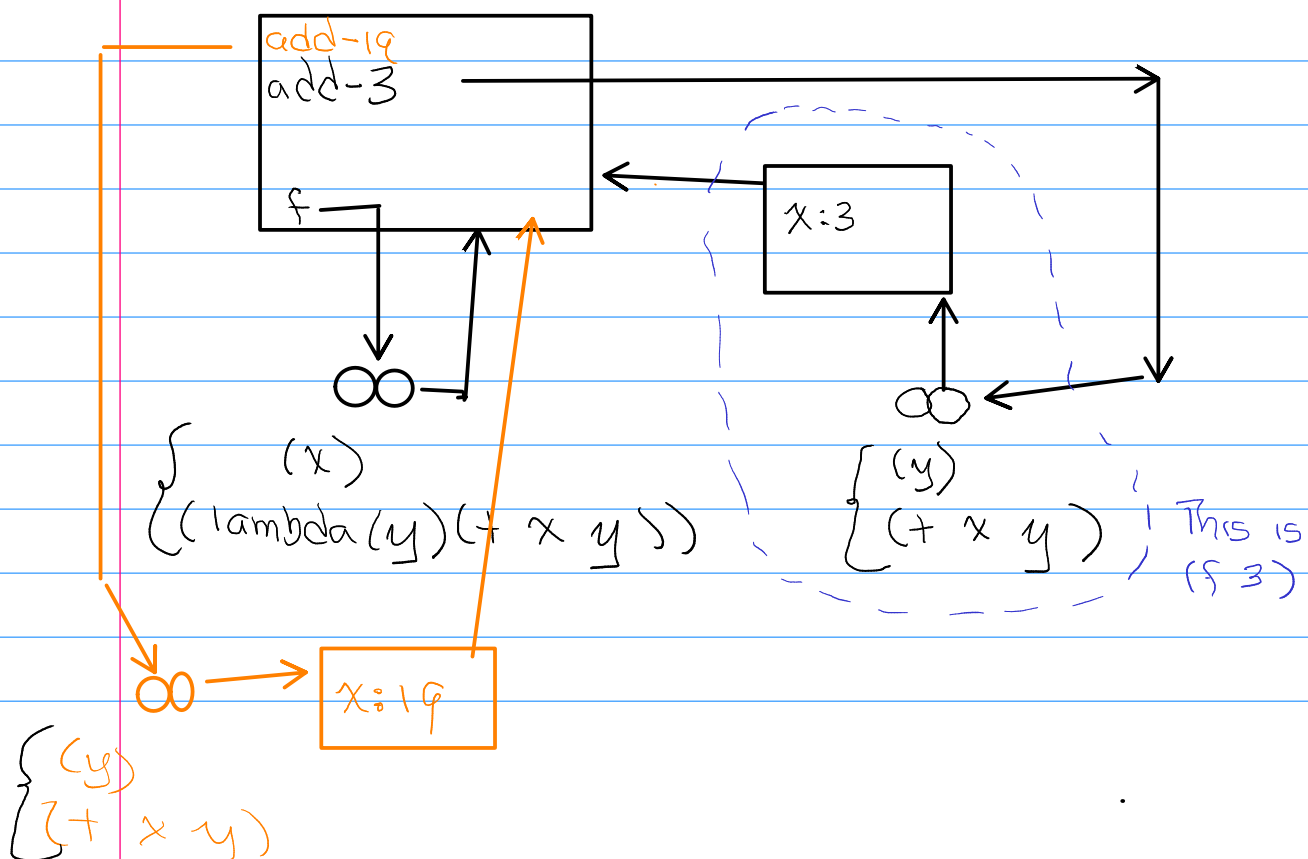


The (f 3)
object
survives, but
The y child
frame does
not

What now if we call (add-3 96)?



What now if (define add-19 (f 19))?



You should reflect on the connection suggested by these examples to the claim that Scheme uses LEXICAL order.

(perhaps start by hitting up Dr. Google for a definition of lexical order)