CSSE 340, Letrec Worksheet

Evaluate the following expression. Draw all closure and environments in the order in which they are evaluated. Assume that we interpret let directly, i.e. without expanding it into an app-lambda expression.

```
(let ([x 3]
      [y 5])
  (let ([fac (lambda (n)
               (if (= n 0)
                   1
                   (* n (fac (- n 1)))))])
    (fac 1)))
```

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(let ([x 3]
      [y 5])
  (letrec ([fac (lambda (n)
                  (if (= n 0)
                      1
                      (* n (fac (- n 1)))))])
    (fac 1)))
```