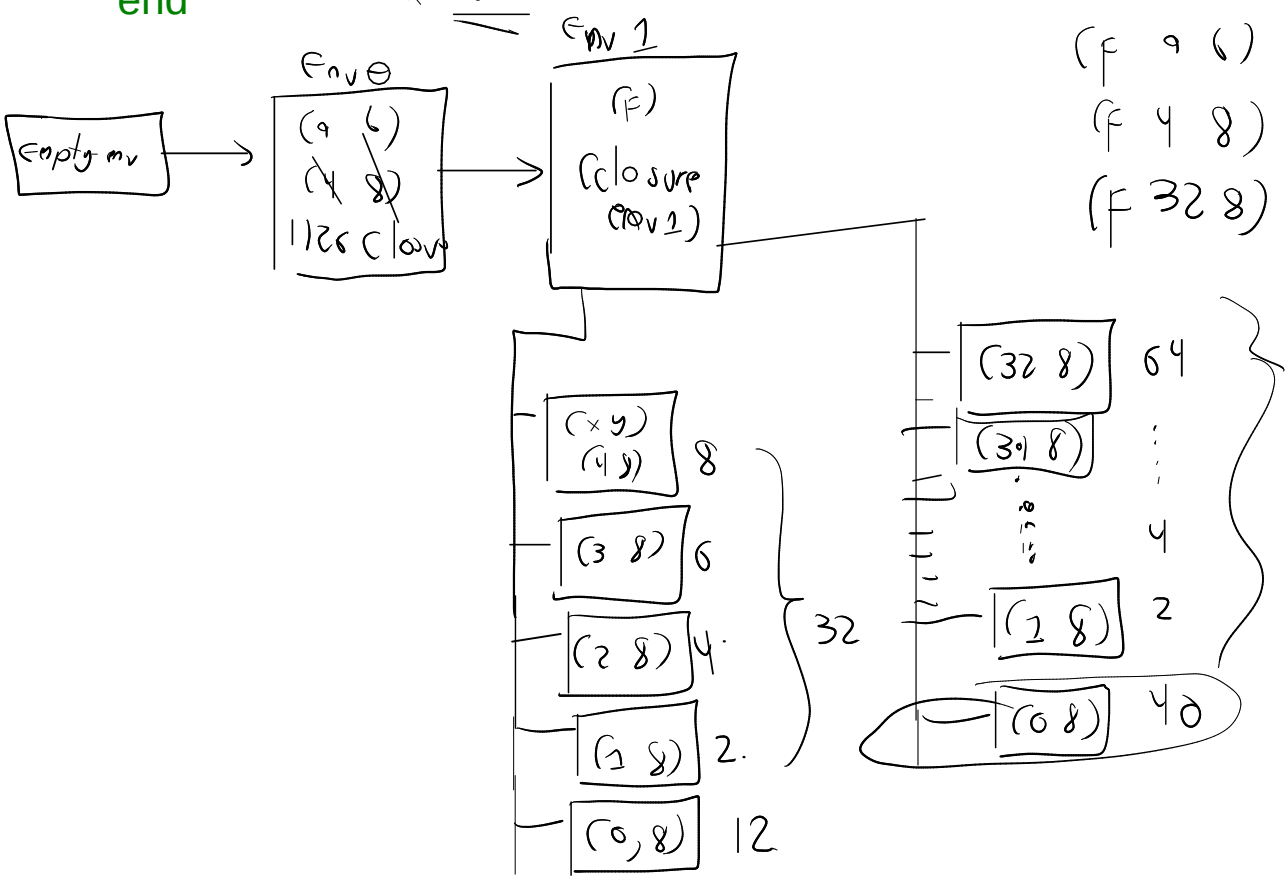
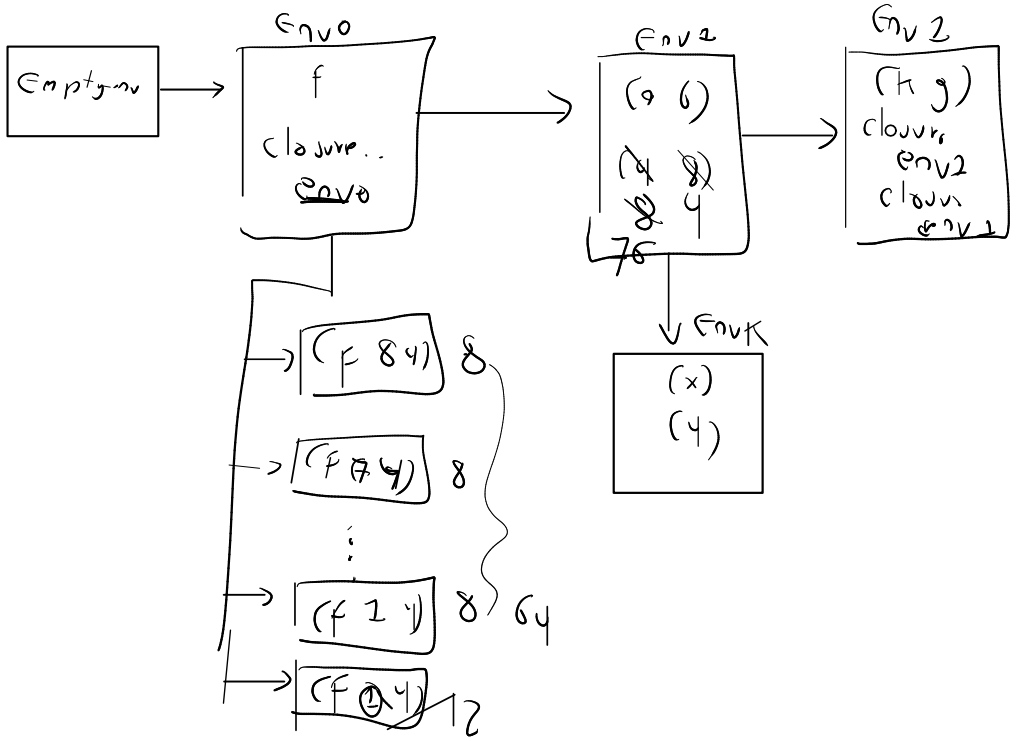
```
let a = 4  b = 8
in
    letrec f(x,y) = if >(x,0) then +(*(2,x),(f -(x,1) y)) else +(a,b)
    in
        begin
            set a = (f a b);
            set b = (f a b);
            set a = +(a,b);
            set b = proc(x,y) +(x, y);
            (b a a)
        end
```



$2+4+6+8+10+12+14+16+18+20+22+24 \cdots +64$

$$2\sum_{i=1}^{32} i = \frac{n(n+1)}{2} = 2\left(\frac{32(33)}{2}\right) = 32\times 33 = 1056 + 40 = 1096$$

```
letrec
    f(x,y) = if >(x,0) then +( *(2,y), (f -(x,1) y)) else let a = 4 in +(a,8)
 in
     let
         a = 4
         b = 8
         in
            let
                k = proc(x) begin set a = +(a,x); set b = -(b,x); +(a,b) end
                g = proc(x) begin set a = (f a b); +(a,b,x) end
                 in
                    +( (k a), (g b))
```



```
let
    x = proc(x,y) +(x,y)
    y = proc(x,y) *(x,y)
    z = 4
    in
        letrec
                f(m,n) = if >(m,0) then +(*(2,n), (f -(m,1) n)) else begin
                                                                        set x = (x 2
                                                                        set y = (y 2
                                                                        +(x,y)
                                                                    end
                in
                    begin
                        set z = (f z +(z,4));
                        +( (proc (x) +(x,2) x), (proc (y) +(y,5) +(x,y)))
                    end
```

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7 16 75