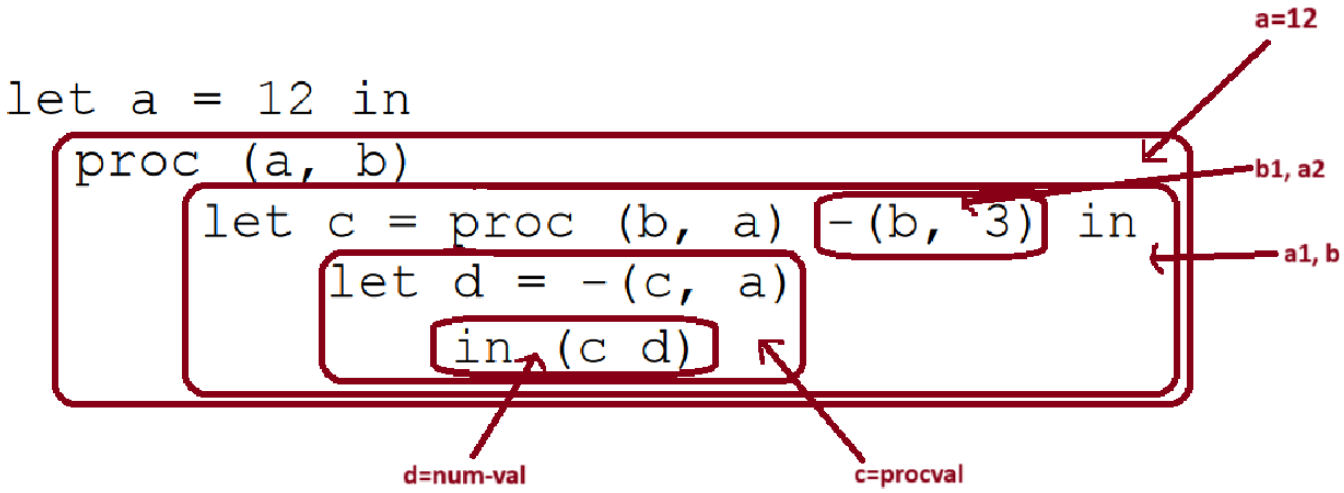
Problem 1

Part A



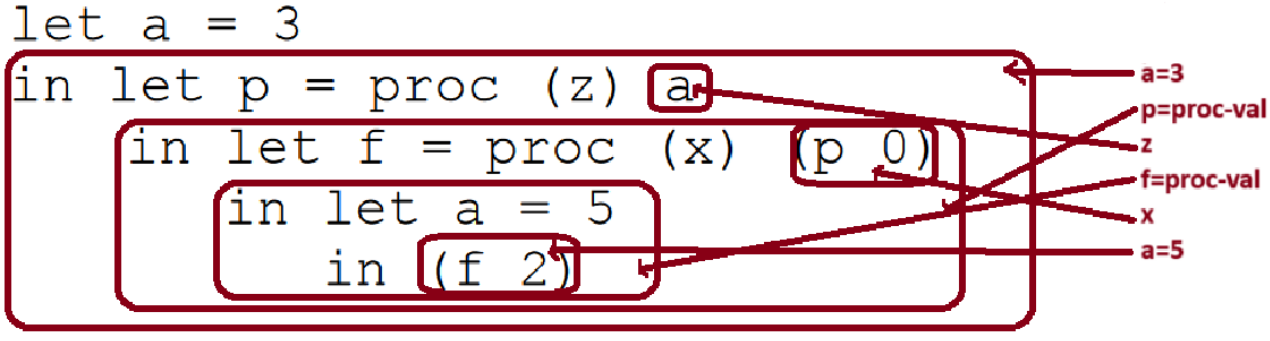
Declerations:

- let a = 12
- proc(a, b): a1 and b
- let c = proc-val
- proc(b, a): b1 and a2
- let d = num-val

References:

- let d = -(c, a): references c and a from outer scopes
- (c d): references c and d from outer scopes

Part B



Declerations:

- let a = 3
- let p = proc-val
- proc (z): z
- let f = proc-val
- proc (x): x
- let a = 5

References:

- (f 2): references f from outer scope

Problem 2

Part A

```
%let %nameless-var 6 in
        %let %nameless-var 4 in
                %let %nameless-var -(#0, #1)
                        %let #0 -(#1, #2)
                                %let %nameless-var %lexproc %lexproc %lexproc -
(#0,-(#1,#2)) in
                                (((#3 #0)#1)#2)
```

Part B

```
let a = 13 in
        let b = 7 in
                let c = 12 in
                        let f = proc (b ,c) -(b, c) in
                                let d = 5 in
                                -(a, -(d, f))
```

Problem 3