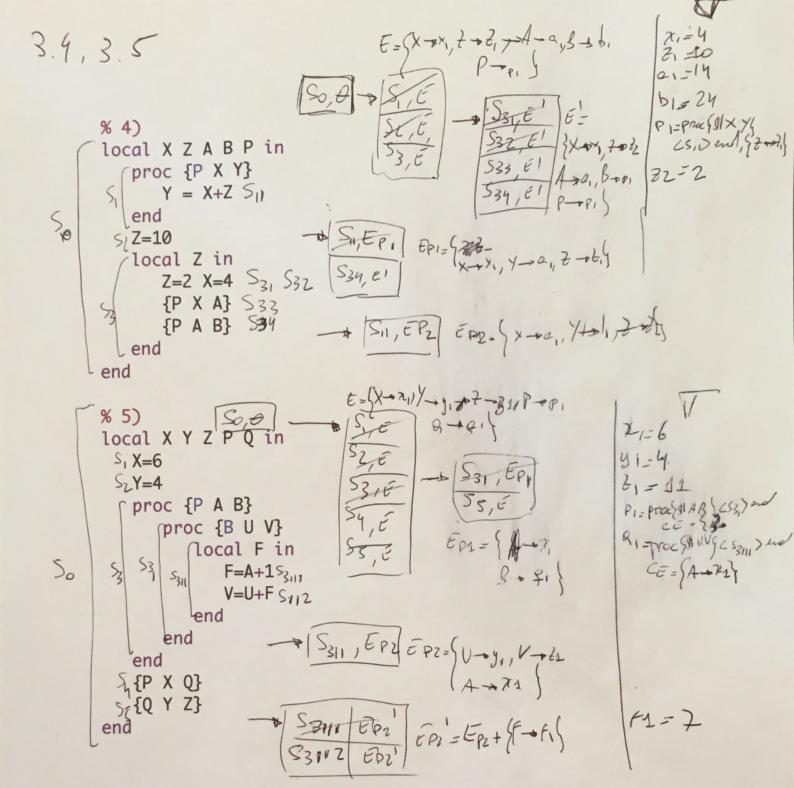
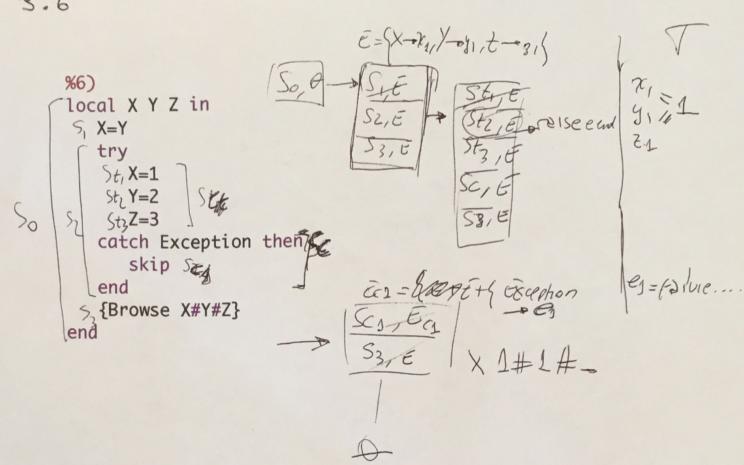
3.1,3.2,3.3





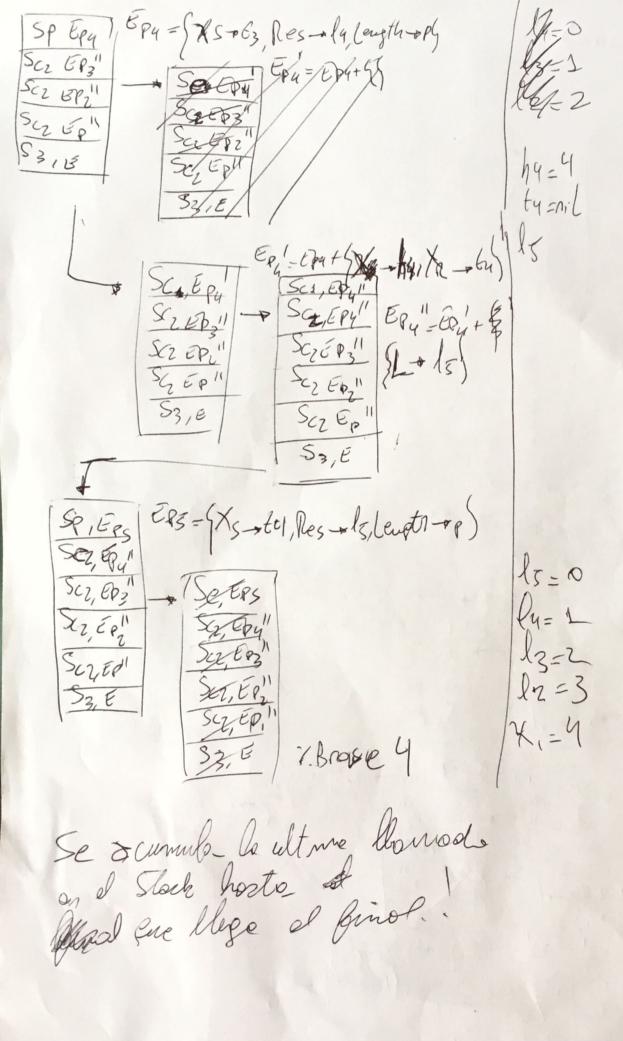
## 5.1 (Rewrsive)

```
local Length X in
                                                                                     S, Length=proc {$ Xs Res}
                                                                                                                                                                                                                                    case Xs of XIXr then
                                                                                                                                          Sp { Local L in {Length Xr L}$\mathcal{L}$, Res = 1+L Scz end else
                                                                                                                                                                                                                                        Se Res = 0
                                                                                                                                                                                                                                      end
                                                                                                                                                                                                         end
       So, \Theta

E = \{x \rightarrow x_1, (e^{y} + t_1 \rightarrow p_1)\}

S_{0}, \Theta

S_{0}
                                                                                     >2 {Length [1 2 3 4] X}
                                                                                          Sy {Browse X}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        7,
Pi+proc(1) xs esses of end, (3)
l, = [1, 239]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            6,=(234)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  62 - (3, 4)
   SP, EP3
```



5.2 (tail)

```
€local Length X in
                                                                              S, Length=proc {$ Xs Res I}
                                                                                                                                                                                                    case Xs of XIXr then
                                                                                                                                                                                                                       local L in
                                                                                                                                                                                                                          L = 1+I S_{CL}
{Length Xr Res L} S_{CL}
                                                                                                                                                                                                    else
                                                                                                                                                                                                   Se Res = I
                                                                                                                                                                             end
                                                                  $ 2 {Length [1 2 3 4] X 0}
                                                                         S3 {Browse X}
                                                                                                                                       E= {X-x, Chypth -00}
                                                                   S3, E | SE, EP3 | EP3 + [X-+ h3, X-+ t3]

S3, E | S2, EP3 + [X-+ h3, X-+ t3]

SCA, EP3 | SCA, EP3 |
```

Spiegy = {XS-ot3, Res-ox, Length-op}

Sq. Epy | tpy = epy + {X-ohy, Xr-oty} | hq = 4

th = nil

Sq. Epy | tpy = epy + {X-ohy, Xr-oty} | th = nil

Sc. Epy | tpy = epy + {x-ohy, Xr-oty} |

Sc. Epy | tpy = epy + {x-ohy, Xr-oty} |

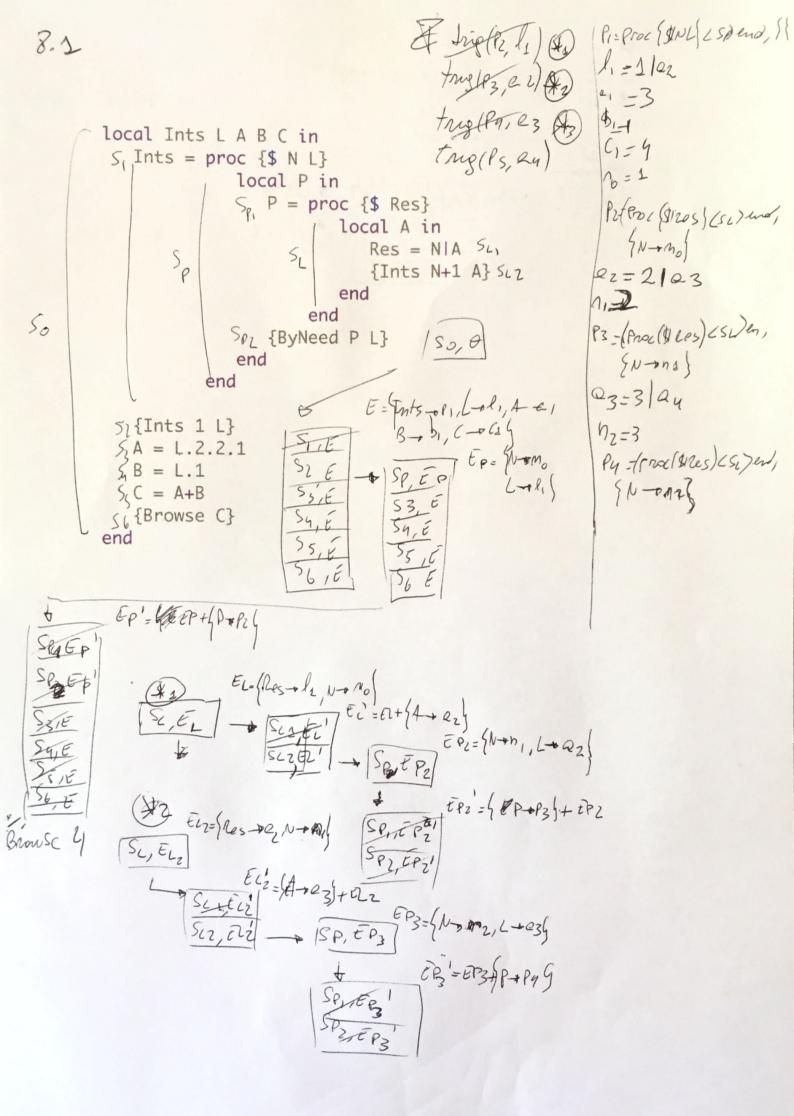
Sc. Epy |

Sc. Epy |

Sq. Eps | the old |

Sq. Eps | t

7,2 local A B C in Cthread if A then
B=true B=false 513 lend end 50 thread if B then C=false \$\$\$\frac{1}{2}\lambda - end S<sub>3</sub> A=false end



 04mz=4 Ps=Proc Syras (CSD end, (N-1 mz)