15.a

mergeList(l1l2…ln, a1a2..am) = [a1a2a3..an], n = 0

l1U mergeList(l2l3..ln, a1a2..a3), n<>0

listToNR(l1l2…ln, nr) = Nr, n=0

nr\*10 +l1 U listToNr(l2l3…ln, nr), n <>0

nrToList(l1l2…ln, nr) = nr, nr < 10

nr div 10 U mergeList(l1l2..ln, [nr div 10]) , nr > 10

15.b

main(l1l2..ln) = [], n = 0

l1 U main(2l3…ln), l1 is number

listToNr(l1,a1a2..an,) U nrToList(l1-1, l2l3..ln) U main(l2l3…ln), l1 is list