CNC 2012
Programming Languages
Professor Sheri Shulman
Assignment 2
Owen Meyer

2.1) 4520 let I stand for Int and D stand for Dig

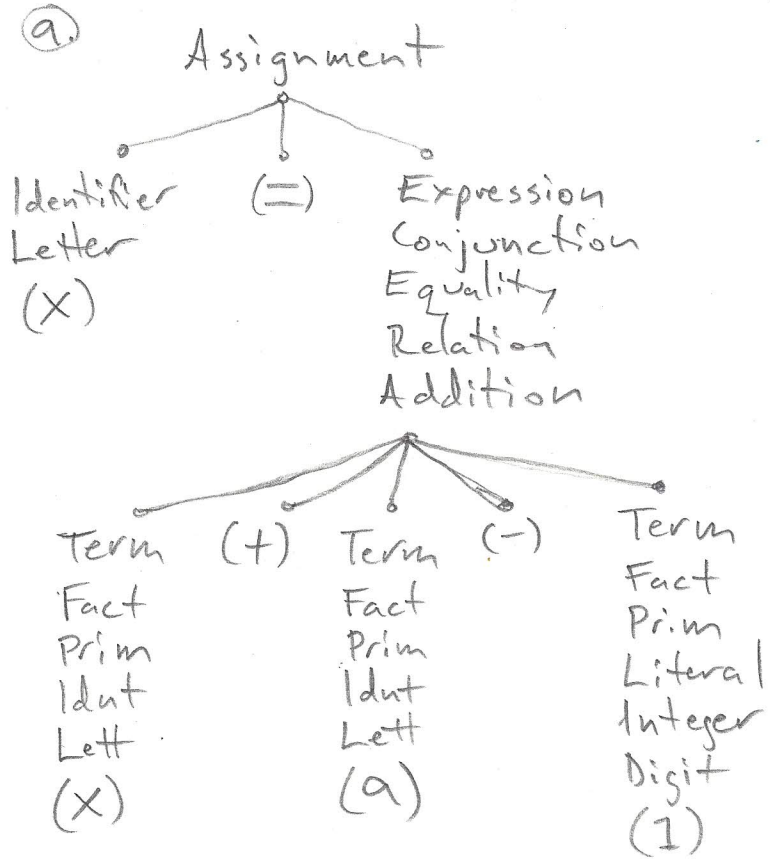
I D
I D D
I D D D
D D D D
4 D D D
4 5 D D
4 5 2 D
4 5 2 0

total # of steps = # of digits * 2

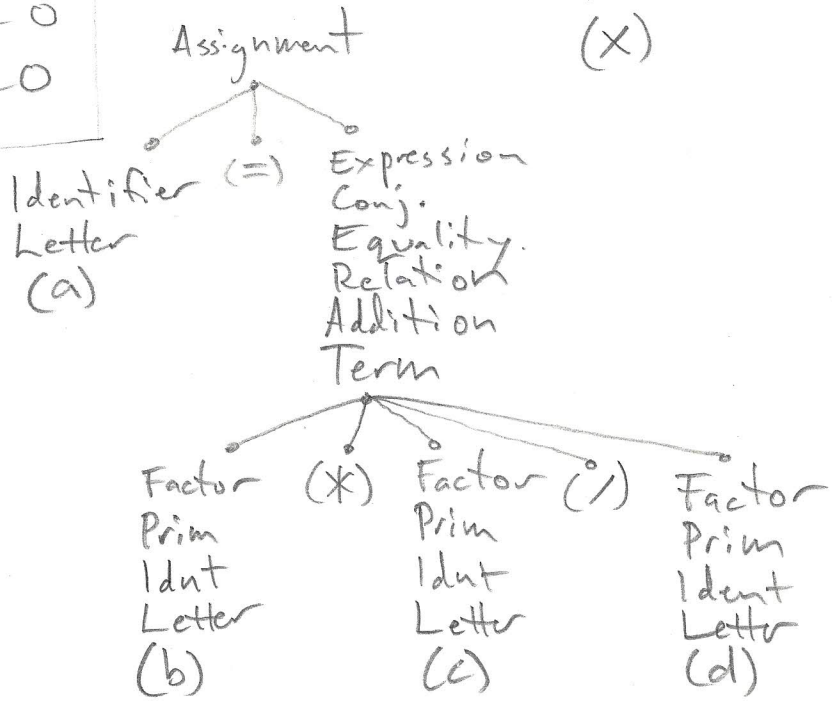
2.2) 4520

I D
I 0
I D 0
I 2 0
I D 2 0
I 5 2 0
D 5 2 0
4 5 2 0

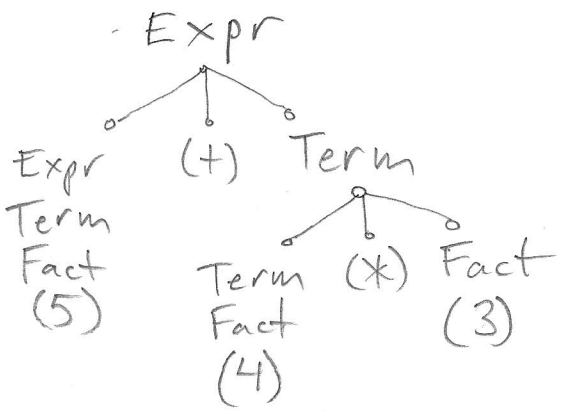
2.5) x = x + a - 1 (a)



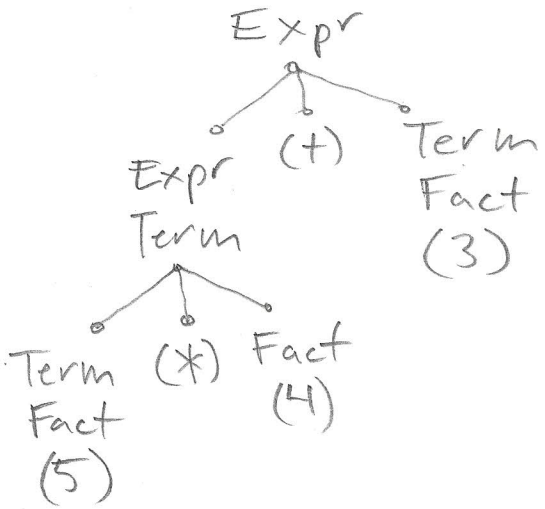
(b) a = b * c / d



2.8) a.) 5+4*3



b.) 5*4+3



2.13)

ifThenStatement → if (Expr) Statement

ifThenElseStatement → if (Expr) StatementNoShortIf else Statement

2.15)

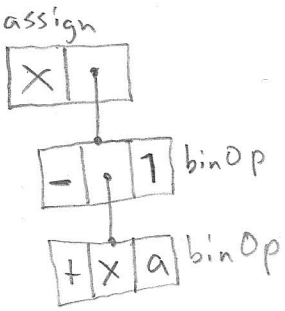
A → {x} : A → e | A x

A → (a|b) : A → a | b

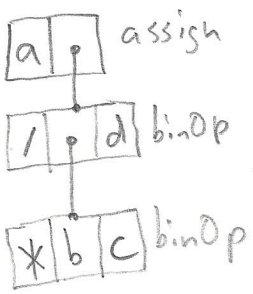
A → [x] : A → e | x

2.20)

a.) X=X+a−1



b.) a=b*c/d



c.) i=i+j*k-3