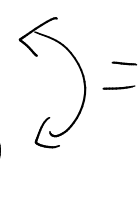



abc^*
 $ab(c^*)$



$(abc)^* \ni ab?$
 $\{ \epsilon, abc, abcabc, \dots \}$



$a b c^*$

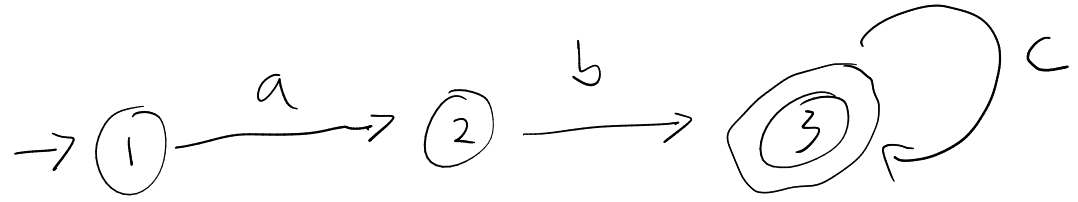
input
a
b
c

states

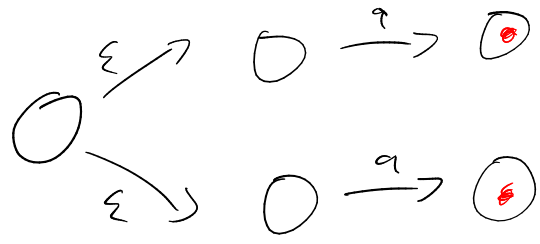
transitions

accepts

final

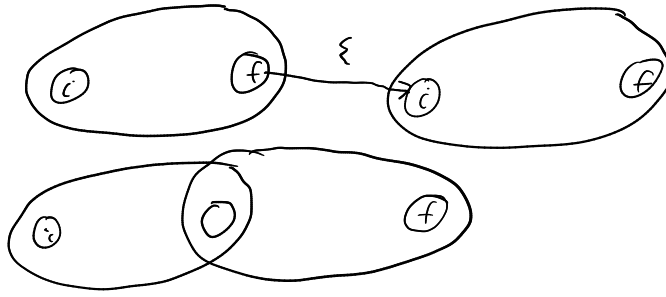


state	a	b	c
→ 1	2	-	-
2	-	3	-
③	-	-	3

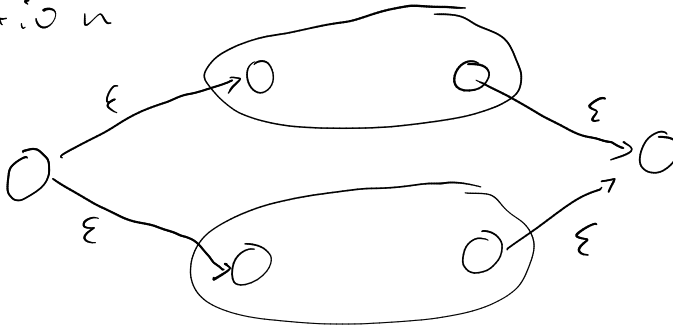


$a b c^*$

concat

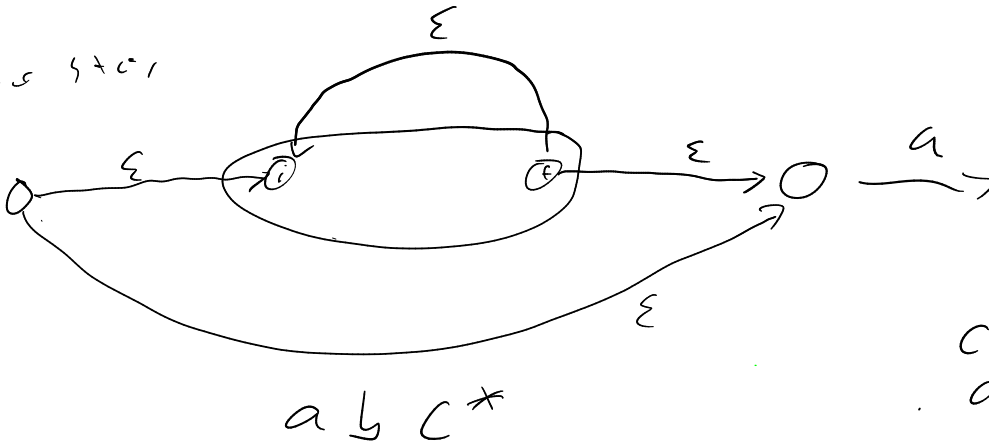


alternation



$a | b$

Kleene star

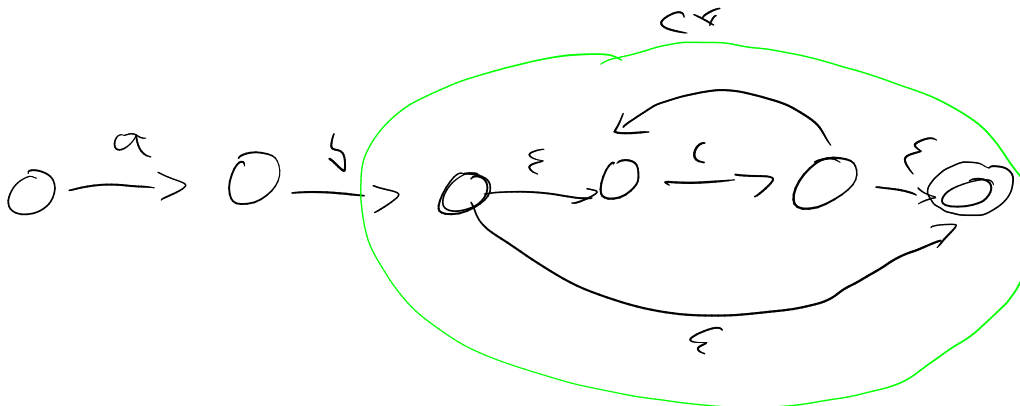


$(a^*) a b \#$

$a b c^*$

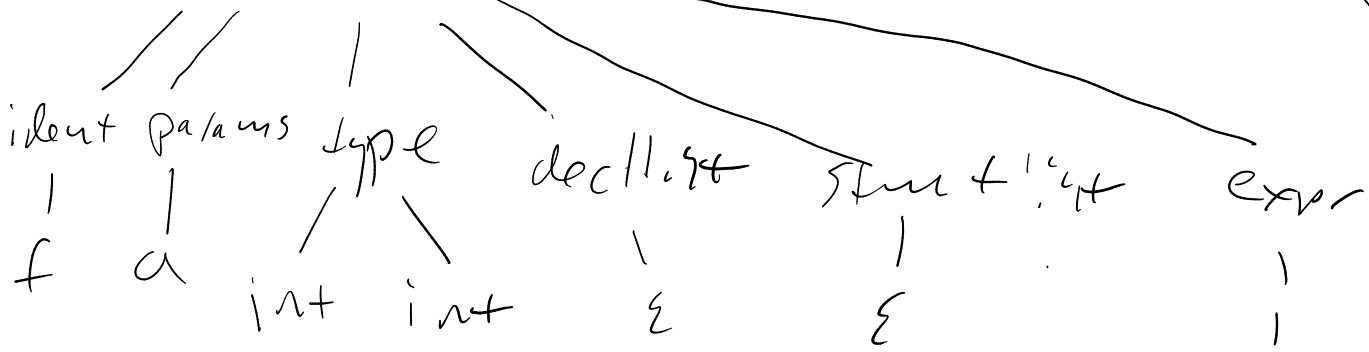
c^*
 $a b$
 $a | b$

↑ priority

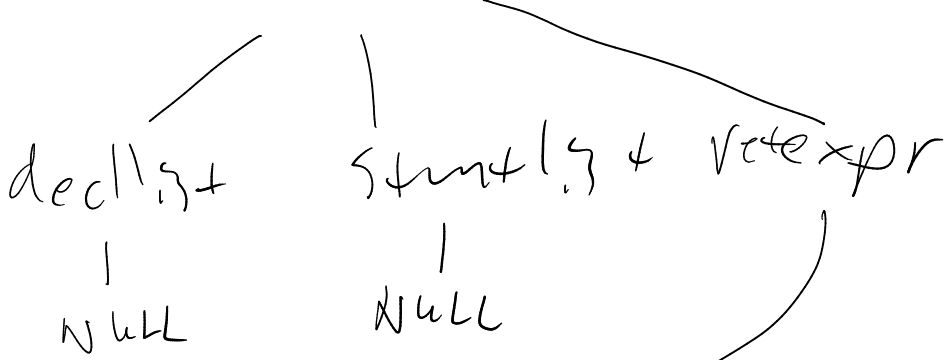


Program

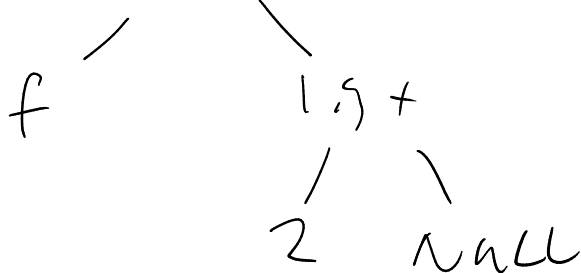
func dot



main

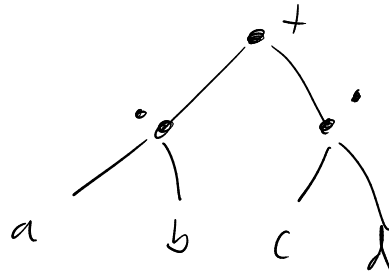


callexpr



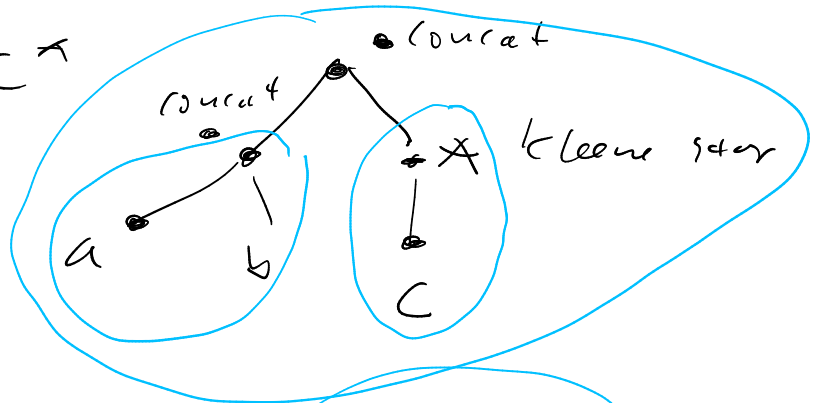
$ab | cd$
 $a \cdot b + c \cdot d$

$(ab) | (cd)$

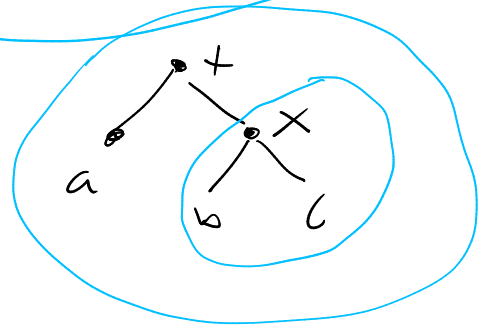


$0 \Rightarrow 0 \xrightarrow{\epsilon} 0 \Rightarrow 0$

$a \ b \ c^*$
 $(a \ b)(c^*)$



$a + b \times c$

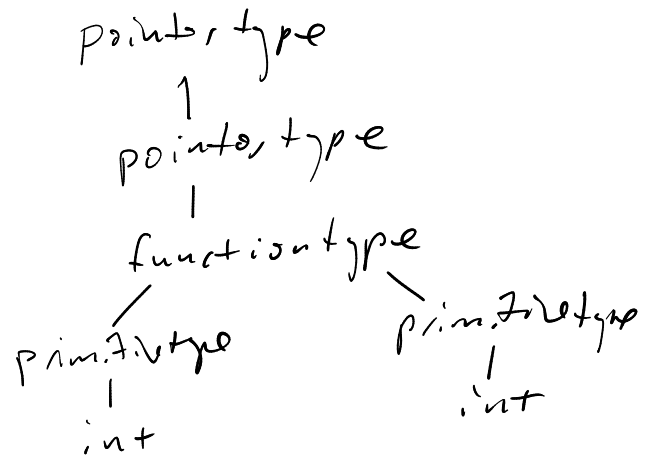


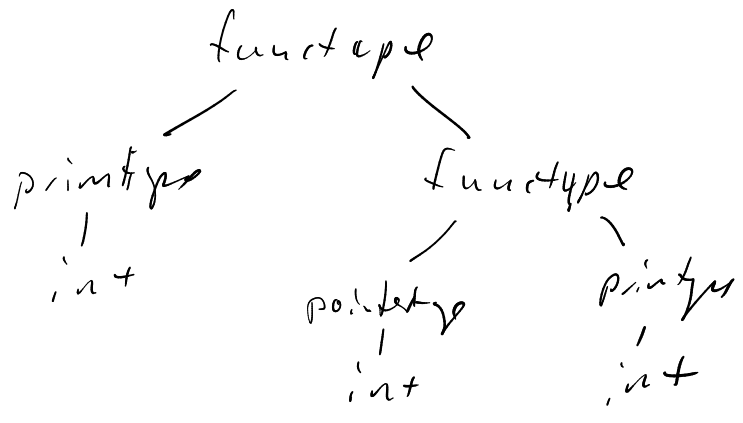
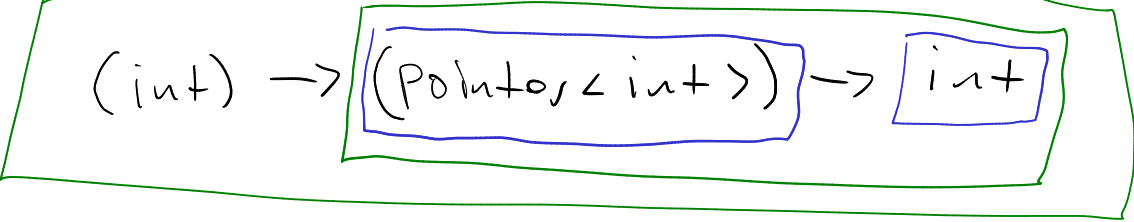
$$c^* = \{ \epsilon, c, cc, ccc, \dots \}$$

$$\{ c^n \mid n \in \mathbb{Z} \}$$

$$b c^* = \{ \epsilon, bc, bcc, bccc, \dots \}$$

pointer < pointer < (int) -> int > >





$$(abc)^x$$

$$c^x$$

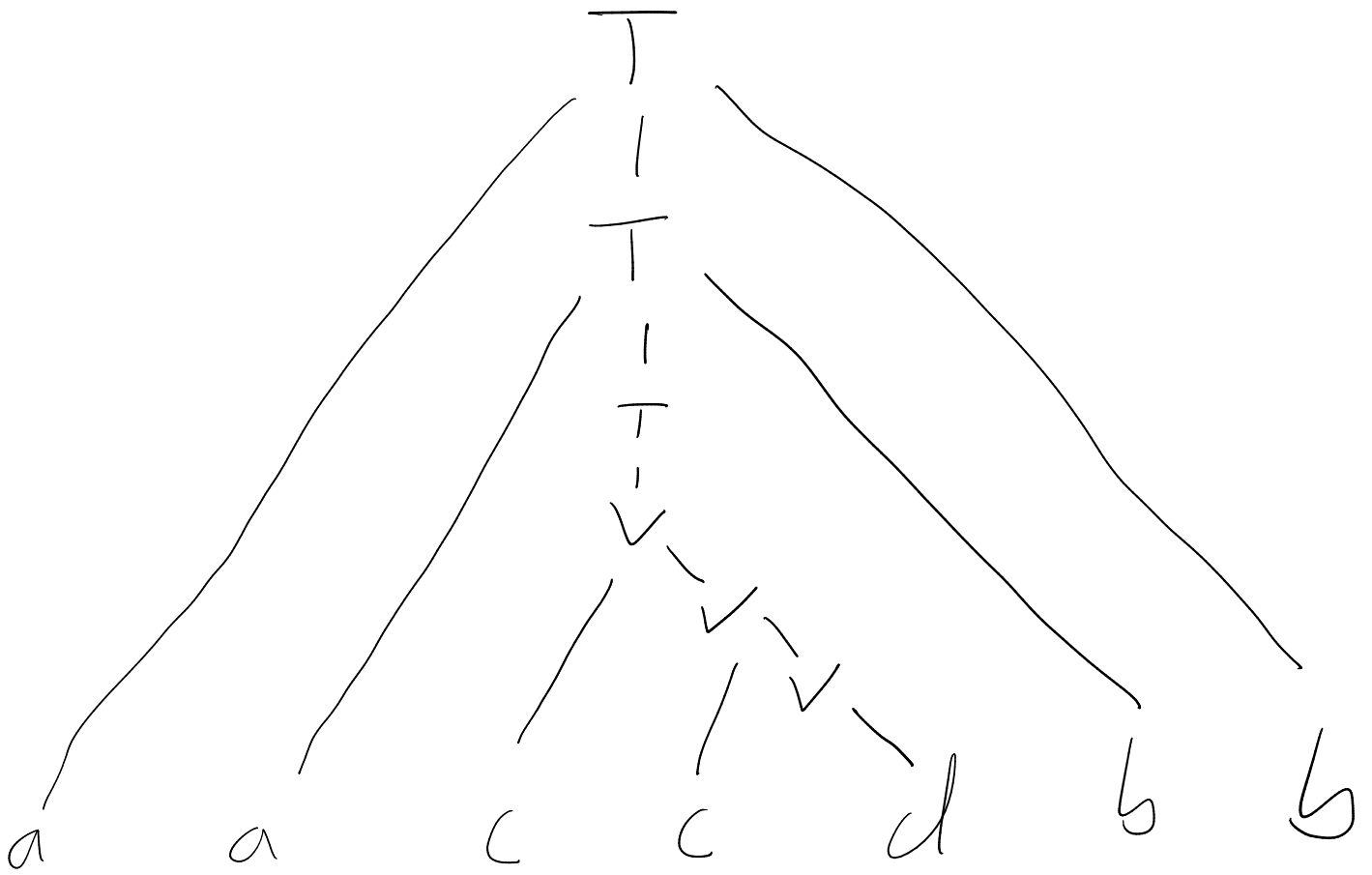
$$ab$$

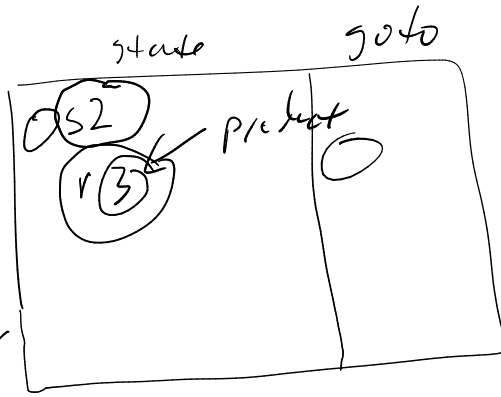
$$a|b$$

$$c^n$$

$$a \times b$$

$$a + b$$

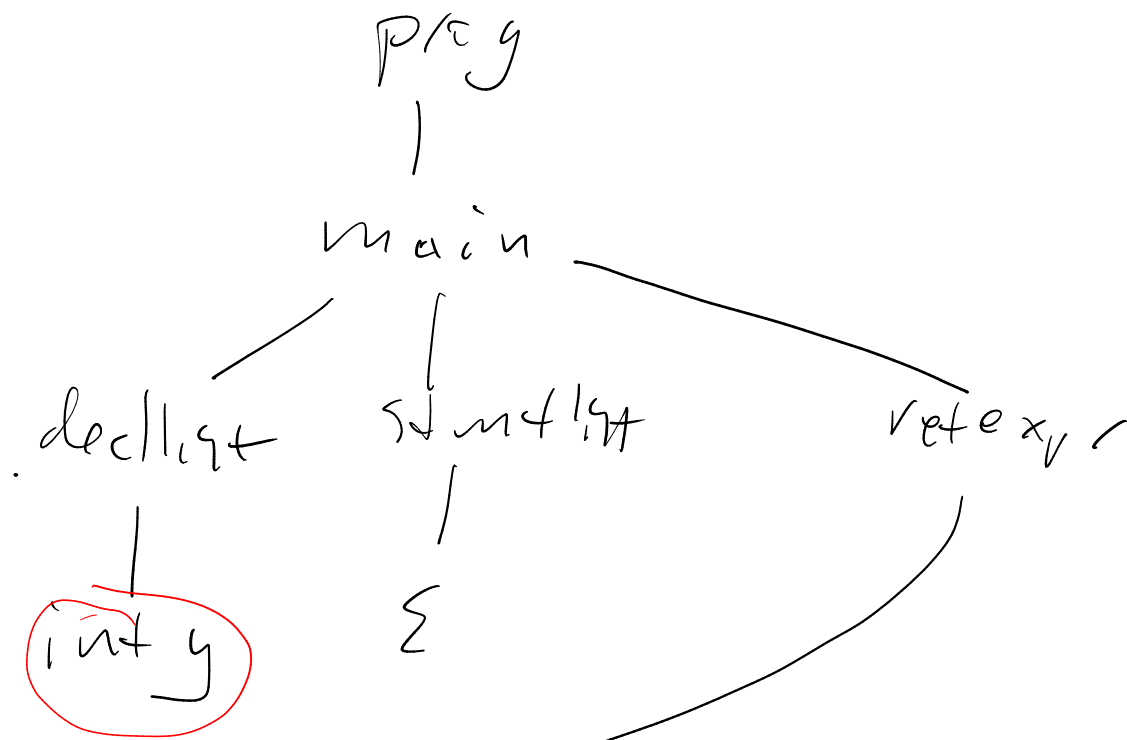




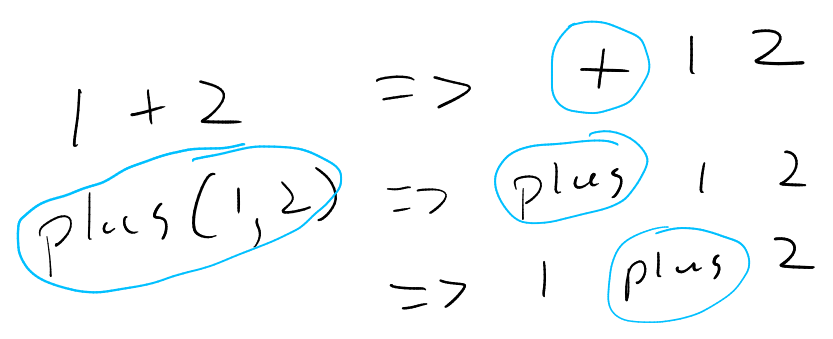
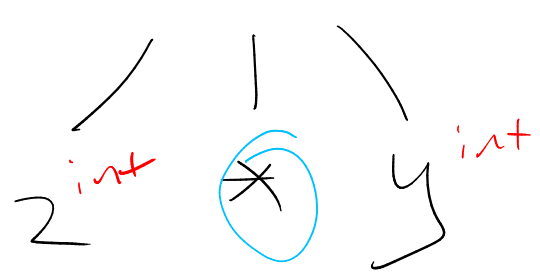
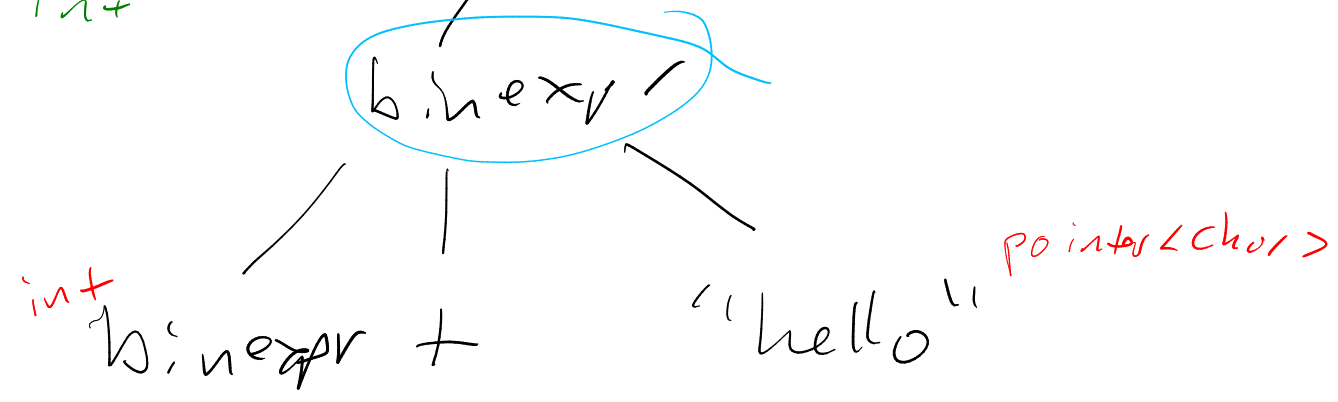
↓
a c c d b b
input

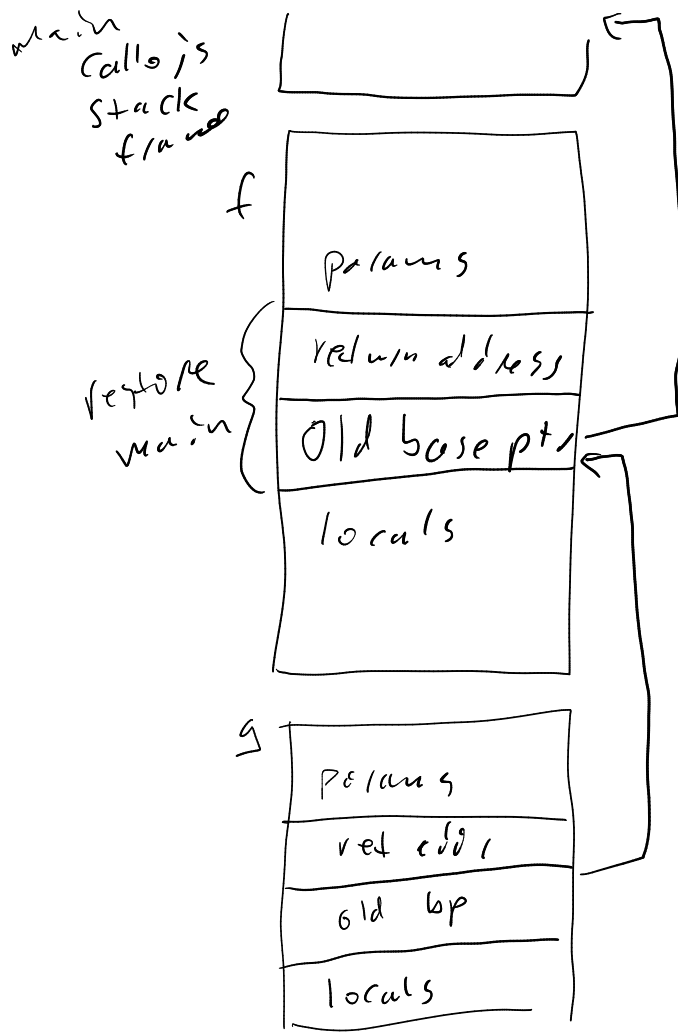
shift
reduce (goto)
accept
error

2
a



name	type
y	int





$g(x)$
return $x+1$

$f(a)$
 $g(a+1)$

main
 $f(2)$

