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Homework 5

CFG1:
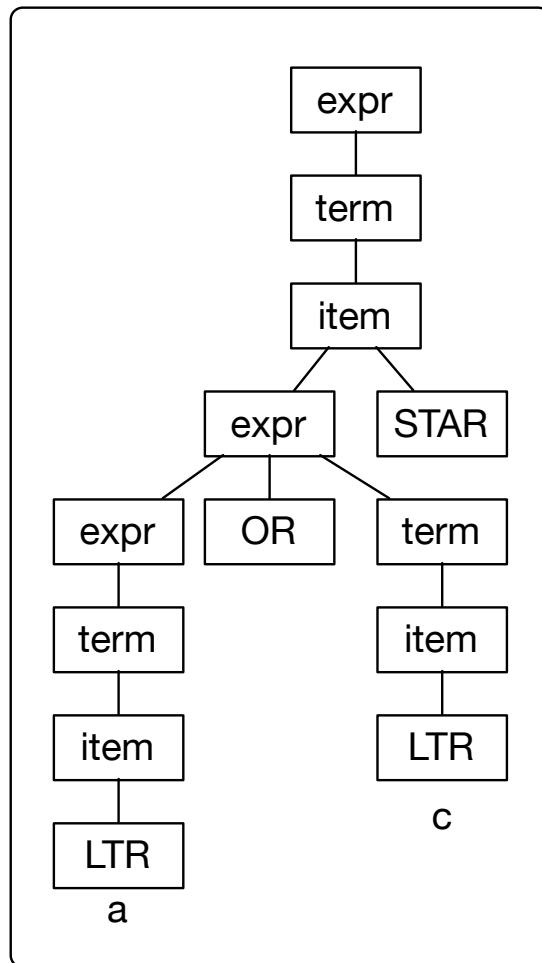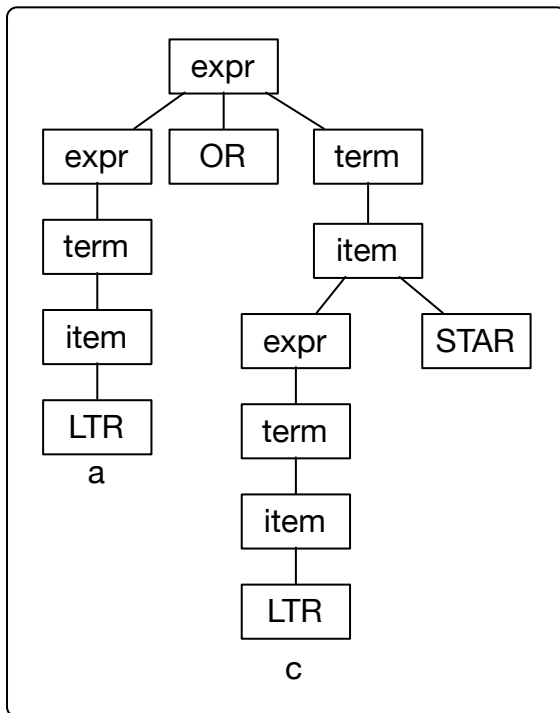
CFG1 doesn't allow the legal regular expression as following:

$a * \mid a +$

CFG2

CFG2 is ambiguous.

$a \mid c *$

CFG3:

CFG3 doesn't allow the legal regular expression as following:

$(a + b) *$

CFG4:

CFG4 allows the illegal expression as following:

$a \mid$

CFG5:

CFG5 doesn't allow the legal regular expression as following:

$(a + b) +$

CFG6:

CFG6 is ambiguous

$ab *$

expr

term

factor

item

item   STAR

expr

term

factor

factor   item

item   expr

expr   LTR

LTR   b

a