编译系统原理第二章预习作业

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1. CFG 设计

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While 语句产生式:
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statement→while (expression) statement

for 语句产生式:

 $statement \rightarrow \mathbf{for} (expression_1; expression_2; expression_3)$ statement

变量声明语句产生式:

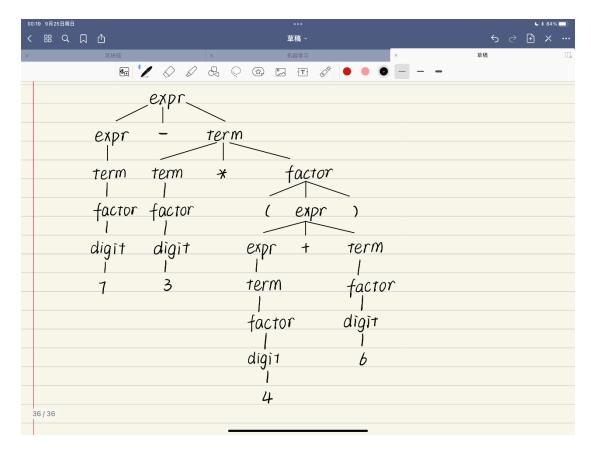
 $identify \rightarrow id1$, id2, $id3 \cdots$

statement→int | float | double | char + identify

2. 推导、语法树

expr→expr-term

- →term-term*factor
- → factor-factor*(expr)
- →digit-digit*(expr+term)
- →digit-digit*(term+factor)
- →digit-digit*(factor+digit)
- →digit-digit*(digit+digit)
- →7-digit*(digit+digit)
- \rightarrow 7-3*(digit+digit)
- \rightarrow 7-3*(4+digit)
- \rightarrow 7-3*(4+6)



3. 语法制导定义

