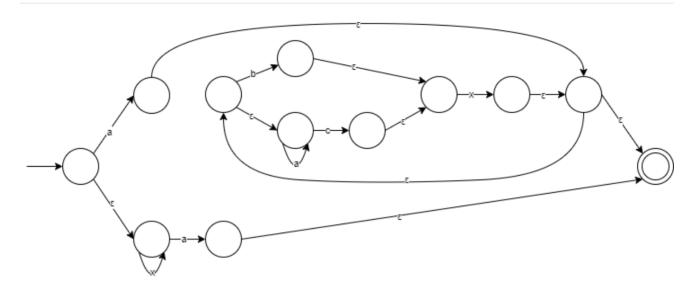
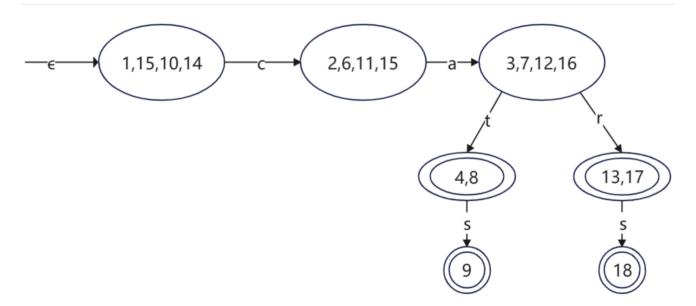
2.4 (b)



2.5 (c)



3.3

验证语法非歧义: CFG Developer (stanford.edu)

(b)

(c)

3.4

二义性: S→S;S、E→E+E 左递归: L→L,E

• Q

```
1 S→S;S|id:=E|print(L)
2 E→id|num|E+E|(S,E)
3 L→E|L,E
```

A

```
1 S→AB, B→;AB|ε, A→id:=E|print(L)
2 E→CD, D→+CD|ε, C→id|num|(S,E)
3 L→EF, F→,LF|ε
```

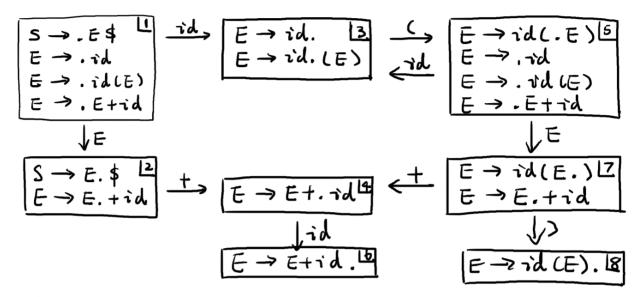
3.12 (a)(b)

文法:

$$0 S \rightarrow E $$$

 $1 E \rightarrow id$
 $2 E \rightarrow id(E)$
 $3 E \rightarrow E+id$

a. LRIO) DFA:



b. 不是LR(0) 艾茨, 理由如下:

在位置(3.C)中,限约55又有「1.产业中突,因此不是LRIO)文法。