# 编译原理 作业六

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### 5.4.3

## 先提取左公因子

$$egin{array}{ll} B \; 
ightarrow \; B_1 d \mid 1 \ d \; 
ightarrow \; 0 \mid 1 \end{array}$$

### 消除左递归后得

$$B \to 1 \{R.i = 1\} R \{B.val = R.val\}$$
  
 $R \to d \{R_1.i = 2 * R.i + d.val\} R_1 \{R.val = R_1.val\}$   
 $R \to \epsilon \{R.val = R.i\}$   
 $d \to 0 \{d.val = 0\}$   
 $d \to 1 \{d.val = 1\}$