预处理后的文法如下：

1.S->id=E;

2.S->if(C){S}else{S}

3.S->while(C){S}

4.E->TE’

5.E’->+TE’

6.E’->ε

7.T->FT’

8.T’->\*FT’

9.T’->ε

10.F->(E)

11.F->num

12.F->id

13.C->DC’

14.C’->||DC’

15.C’->ε

16.D->(C)

17.D->id==num

预测分析表

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | id | = | ; | if | ( | ) | { | } | else | while | + | \* | num | || | == | $R |
| S | 1 |  |  | 2 |  |  |  |  |  | 3 |  |  |  |  |  |  |
| E | 4 |  |  |  | 4 |  |  |  |  |  |  |  | 4 |  |  |  |
| E’ |  |  | 6 |  |  | 6 |  |  |  |  | 5 |  |  |  |  | 6 |
| T | 7 |  |  |  | 7 |  |  |  |  |  |  |  | 7 |  |  |  |
| T’ |  |  | 9 |  |  | 9 |  |  |  |  | 9 | 8 |  |  |  | 9 |
| F | 12 |  |  |  | 10 |  |  |  |  |  |  |  | 11 |  |  |  |
| C | 13 |  |  |  | 13 |  |  |  |  |  |  |  |  |  |  |  |
| C’ |  |  |  |  |  | 15 |  |  |  |  |  |  |  | 14 |  | 15 |
| D | 17 |  |  |  | 16 |  |  |  |  |  |  |  |  |  |  |  |