```
1 grammar IfStat;
 3 @header {
 4 package ifstat;
5 }
7 prog : stat EOF ;
9 stat : 'if' expr 'then' stat
10
        | 'if' expr 'then' stat 'else' stat
11
        | expr
12
13
14 // The following stat rule using '?' also works as expected.
15 //stat : 'if' expr 'then' stat ('else' stat)? ;
16 //
        | expr
17 //
         ;
18
19 expr : ID ;
20
21 ID : [a-z]+;
22 WS : [ \t n\r] + -> skip ;
```

```
1 grammar IfStatOpenMatched;
 3 @header {
 4 package ifstat;
 5 }
7 prog : stat EOF ;
9 stat : matched_stat | open_stat ;
10
11 matched_stat : 'if' expr 'then' matched_stat 'else' matched_stat
12
                expr
13
14
15 open_stat: 'if' expr 'then' stat
           | 'if' expr 'then' matched_stat 'else' open_stat
17
18
19 expr : ID ;
20
21 ID : [a-z]+;
22 WS : [ \t n\r] + -> skip ;
```