Small语言定义EBNF表示

1. <program>=<stmt\_sequence>
2. <stmt\_sequence> = <statement>{“;”<statement>}
3. <statement>=<if\_stmt>|<repeat\_stmt>|<assign-stmt>|<read\_stat>|<write\_stat>
4. <if\_stmt>= “if” <exp> “then” <stmt\_sequence> [ else <stmt\_sequence>]“end”
5. <repeat\_stmt>= “repeat” <stmt\_sequence> “until” <exp>
6. <assign-stmt> = <identifier> “:=” <exp>
7. <read\_stmt> = “read” <identifier>
8. <write\_stmt>= “write” <exp>
9. <exp>=<simple-exp>[(“>”|”<”|”>=”|”<=”|”==”|”!=”) <simple-exp>]
10. <simple-exp> =<term>{(“+”| “-”)<term>}
11. <term>=<factor>{(“\*”|“/”)<factor>}
12. <factor>=”**(“**<exp>”**)”**|<number>|<identifier>
13. <number>=<digit>{<digit>}
14. <digit>=”0”|”1”|”2”|”3”|”4”|”5”|”6”|”7”|”8”|”9”
15. <identifier>=<letter>{ (<letter>|<digits>)}
16. <letter>=a|b|c|d|e|f|g|h|i|j|k|l|m|n|o|p|q|r|s|t|u|v|w|x|y|z|A|B|C|D|E|F|G|H|I|J|K|L|M|N|O|P|Q|R|S|T|U|V|W|X|Y|Z