

# Concrete Syntax of IMP

Ident = Letter { Letter | Digit }\*  
Numeral = Digit | Numeral Digit  
Var = Ident

Aexp = '(' Aexp Op Aexp ')'  
| Var  
| Numeral  
Op = '+' | '-' | '\*'

Bexp = '(' Bexp 'or' Bexp ')'  
| '(' Bexp 'and' Bexp ')'  
| 'not' Bexp  
| Aexp Rop Aexp  
Rop = '=' | '#' | '<  
| '<=' | '>' | '>='

Stm = 'skip'  
| Var ':=' Aexp  
| '(' Stm ';' Stm ')'  
| 'if' Bexp 'then' Stm 'else' Stm 'end'  
| 'while' Bexp 'do' Stm 'end'