**Grammar**

**program** ::= <cmd> <program> | <cmd>

**cmd** ::= <ifThenElse> | <assignment>

**ifThenElse** ::= ‘*if*’ <BexprAND> ‘*then’* <Program> ‘*endif’* | ‘*if’* <BexprAND> ‘*then’* <Program> ‘*else’* <Program> ‘*endif’*

**assignment** ::= variable ‘=’ <expr> ‘;’ | variable ‘=’ <bexprAND> ‘;’

**bexprAND** ::= <bexpr> ‘*AND’* <bexprOR> | <bexprOR>

**bexprOR** ::= <bexpr> ‘*OR’* <bexprAND> | <bexpr>

**bexpr** ::= ‘*True’* | ‘*False’* | <bexprAnd> | <compareTo> | variable

**compareTo** ::= <expr> ‘<’ <expr> | <expr> ‘>’ <expr> | <expr> ‘==’ <expr> | <expr> ‘<>’ <expr>

**expr** ::= <term>+<expr>|<term>-<expr>|<term>

**term** ::= <factor>\*<term>|<factor>/<term>|<factor>

**factor** ::= int|(<expr>)|intVariable

**int** ::= <nat>|-<nat>

**nat** ::= <digit>|<digit> <int>

**digit** ::= ‘0’|’1’|’2’|’3’|’4’|’5’|’6’|’7’|’8’|’9’

**space** ::= ‘ ‘