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grammar fol ;

condition
    : formula EOF ;

formula
    : TRUTH
    | FALSITY
    | term EQUALS term
    | relation
    | quantifier formula
    | NOT formula
    | formula AND formula
    | formula OR formula
    | formula IMPLIES formula
    | formula EQUIV formula
    | LPAREN formula RPAREN ;

term
    : VARIABLE
    | NAME ;

quantifier
    : FORALL VARIABLE
    | EXISTS VARIABLE ;

relation
    : NAME binaryarg
    | NAME unaryarg
    | NAME ;

binaryarg
    : LPAREN term ',' term RPAREN ;

unaryarg
    : LPAREN term RPAREN ;

```