# 1 Syntax

A-Z: variables;
$!\varphi$: negation;
$\varphi \& \psi$: conjunction;
$\varphi | \psi$: disjunction;
$\varphi - > \psi$: implication;

All binary operators are right-associative, order can be changed using parentheses.

# 2 Usage

## 2.1 deduction.ml

Input file: deduction_input.txt
Input file should contain proof that uses assumptions, each expression on a single line, the last line should contain a list of assumptions separated by ',' and the last part of expression after ':-'

Output file: deduction_output.txt
Contains a full proof of given expression without assumptions.

## 2.2 main.ml

Input file: completeness_input.txt
Should contain a single line with a true expression.

Output file: completeness_output.txt
Contains a full proof of given expression.