

SimpleAPL BNF 1

```

<APL_Prog> ::= "BeliefUpdates:" <updatespecs>
           |  "Beliefs:" <pliterals>
           |  "Goals": <literals>
           |  "PG rules:" <pgrules>
<updatespecs> ::= [<updatespec> ("," <updatespec>)*]
<updatespec> ::= "{" <literals> "}" <aliteral> "{" <literals> "}"
<pliterals> ::= [<pliteral> ("," <pliteral>)*]
<literals> ::= [<literal> ("," <literal>)*]
<plan> ::= <baction> | <seqplan> | <ifplan> | <whileplan>

```

where $\langle literal \rangle$ ($\langle pliteral \rangle$) denotes belief and goal literals (positive literals).

SimpleAPL BNF 2

```

<baction> ::= <aliteral> | <testbelief> | <testgoal>
<testbelief> ::= <bquery> "?"
<testgoal> ::= <gquery> "!"
<bquery> ::= <literal> | <bquery> "and" <bquery> |
           <bquery> "or" <bquery>
<gquery> ::= <literal> | <gquery> "or" <gquery>
<seqplan> ::= <plan> ";" <plan>
<ifplan> ::= "if" <bquery> "then {" <plan> "}" ["else {" <plan> "}" ]
<whileplan> ::= "while" <bquery> "do {" <plan> "}"
<pgrules> ::= [<pgrule> ("," <pgrule>)*]
<pgrule> ::= [<gquery>] "<-" <bquery> "|" <plan>

```

where $\langle aliteral \rangle$ denotes the name of a belief update action