AGPL Syntax

```
\langle game \rangle ::= \text{`Gamestate:} \{ (\langle gamestate \rangle) '\}'
        'Player:{' \langle Dec \rangle '}'
        \texttt{`Move:} \{ \texttt{'} \ \langle Dec \rangle \ \texttt{`} \} \texttt{'}
        'isVailid:{'\langle Exp \rangle'}'
        'possMoves:\{', \langle Exp \rangle '\}'
        \verb"outcome": \{'\ \langle Outcome\rangle\ `\}"
        'initialState:\{' \langle InitState \rangle '\}'
        'fromString:{' \langle Exp \rangle '}'
        '$' [\langle Dec \rangle] '$' (Custom declarations)
\langle gamestate \rangle ::= `Board: \{' \langle BoardDec \rangle \}
        'Piece:{' \langle Dec \rangle
       'Hand:{' \langle Dec \rangle 'Turn:{' \langle Dec \rangle
       \langle string \rangle': {' \langle Dec \rangle
\langle BoardDec \rangle ::= `\{Matrix['\langle int \rangle']['\langle int \rangle']\}'
        \{Array['\langle int\rangle']'\}
        '<<' \langle Dec \rangle '>>' (Custom Type)
\langle Outcome \rangle ::= `\{winCondition: \{' \langle Exp \rangle '\}' \}
        'tieCondition:{' \langle Exp \rangle '}'
        'else:{' \langle Exp \rangle '}'
       '<<' \(\langle Exp\) '>>'
\langle InitState \rangle ::= `Board: `\langle BoardInitDec \rangle
        'Turn:{' \langle Exp \rangle '}'
\langle BoardInitDec \rangle ::= `{ all' \langle Exp \rangle '}' (Initialize board to piece)
       '\{' \langle Exp \rangle'}' (Initialize board to List literal)
        '<<' \langle Exp \rangle '>>' (Custom initialization func.)
\langle Exp \rangle ::= \langle Template\ Haskell\ Expression \rangle
\langle Dec \rangle ::= \langle Template \ Haskell \ Declaration \rangle
```