1 Grammar

```
\langle expr \rangle ::= \langle mulExpr \rangle \langle + \rangle \text{ '+'}
\langle number \rangle ::= r'[0-9] + \text{'}
\langle mulExpr \rangle ::= \langle simpleExpr \rangle \langle + \rangle \text{ '*'}
\langle ifStatement \rangle ::= \text{ 'if' '(' \langle expr \rangle ')' ' ' (' expr \rangle ')' (' else' ' (' \langle expr \rangle ')')?}
\langle simpleExpr \rangle ::= \langle number \rangle
| \text{ '(' \langle expr \rangle ')'}
\langle exprStatement \rangle ::= \langle expr \rangle
\langle statement \rangle ::= \langle whileStatement \rangle
| \text{ '(ifStatement)} \rangle
| \text{ '(ifStatement)} \rangle
| \text{ '(ifStatement)} \rangle ::= \langle statement \rangle \langle + \rangle \text{ ';'}
\langle whileStatement \rangle ::= \text{ 'while' '(' \langle expr \rangle ')' ' (' \langle expr \rangle ')' }
```