

wskeaAnalyserForWHILE

a simple haskell-program to analyze the semantics of a program written in the language 'WHILE'.

The language WHILE has the following syntax:

1. primitives

```
W -> <true> | <false>
Z -> MIN_INT, .. , -1, 0, 1, .., MAX_INT
I -> a..z
OP -> + | - | * | / | <mod>
BOP -> < | > | = | <= | >= | !=
```

2. Boolean Expressions

```
B ->
    W
    | <not> B
    | <read>
    | T BOP T
```

3. Number Expressions

```
T ->
    Z
    | I
    | <read>
    | T OP T      (*)
```

4. Commands

```
C ->
    I <:=> T
    | <if> B <then> C <else> C
    | <while> B <do> C
    | <output> T
    | <output> B
    | C <;> C      (*)
```

Notice that the grammar includes left-recursion in the productions marked with (*)