0.1 Parse Tree

Parse tree are nearly the same as a abstract syntax tree, but here all internal nodes are labelled with a non-terminal symbol and all leaf labelled with a terminal symbol. Also a sub-tree describe one instance abstraction of a sentence.

To help understand the different between abstract syntax tree and parse tree there will be made one of both over the same variable declaration in code for the project language.

```
1       int x <-- 3+2;
```
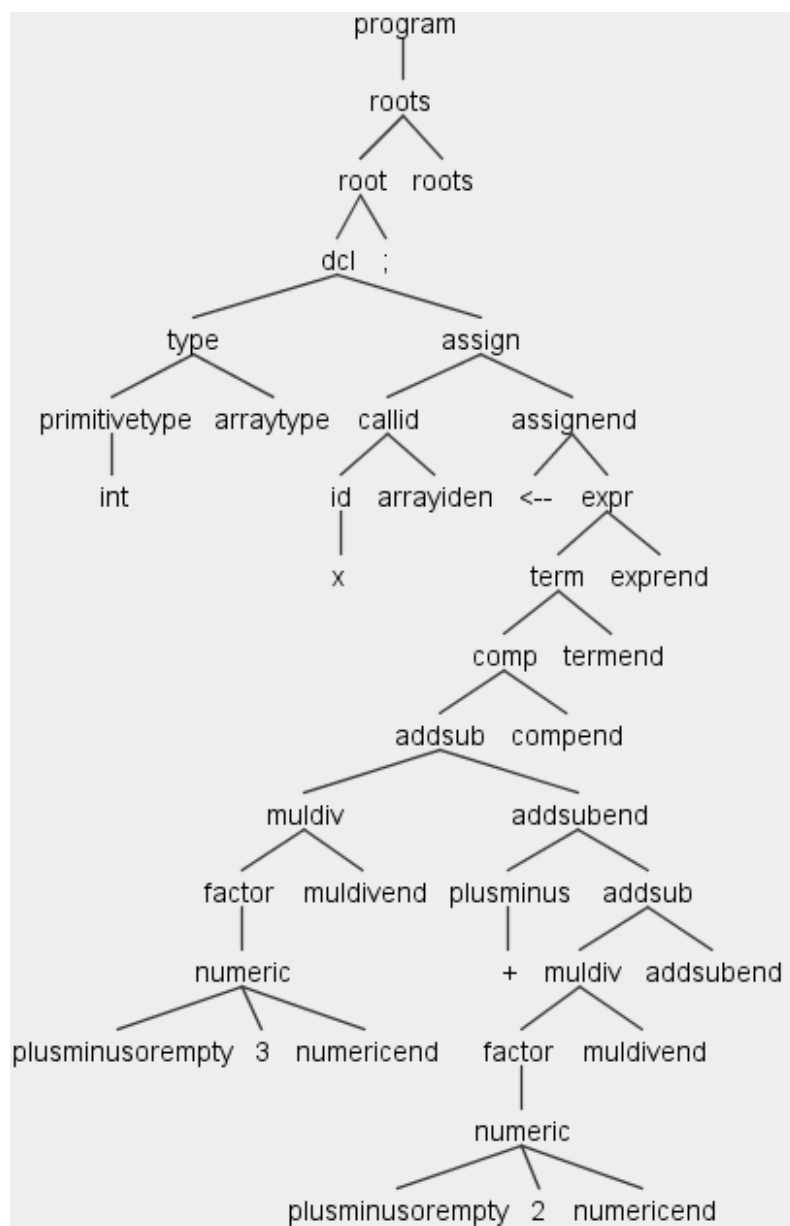
Listing 1: a simple variable declaration in the project language

Figure 0.1: a parse tree that is made by using ANTLR

```
              program
                 |
                <-
              /  |  \
           x     +     ;
                / \
               3   2
```