AST

Abstract syntax tree (AST), or just syntax tree, is a tree representation of the abstract syntactic structure of source code written in a programming language.

Terms

- Formal
- Actual
- Attribute
- Dispatch
 - Static
 - Dynamic

Example of AST (#1)

Given the following expression:			

The output AST would	d be:		

Example of AST (#2)

Given the following expression:			

Example of AST (#2) Cont.

The output AST would be:				

Lab exercise

Let's try to construct the AST for the following cool program			

Solution

Lab assignment

Follow "Cool Tour" to construct "Queens.cool" given it's AST. Basically reverse engineer the cool program from its AST.