

COMP 430  
Spring 2024

Parsing

Write out an abstract syntax tree (AST) corresponding to each of the expressions or programs. Note that different representations are possible; without a grammar, you can't always know for sure.

Expression	AST
8	
8 + 2	
2 + 8	
1 * 2 + 3	
1 * (2 + 3)	
1 + 2 + 3	

Program	AST
<pre>z = 10;</pre>	
<pre>a = "foo"; b = 12;</pre>	
<pre>while (x &lt; 10) {     x++; }</pre>	
<pre>if (x &gt;= y) {     z = 5; }</pre>	
<pre>if (true) {     a = 1; } else {     a = 2; }</pre>	
<pre>print("hi");</pre>	