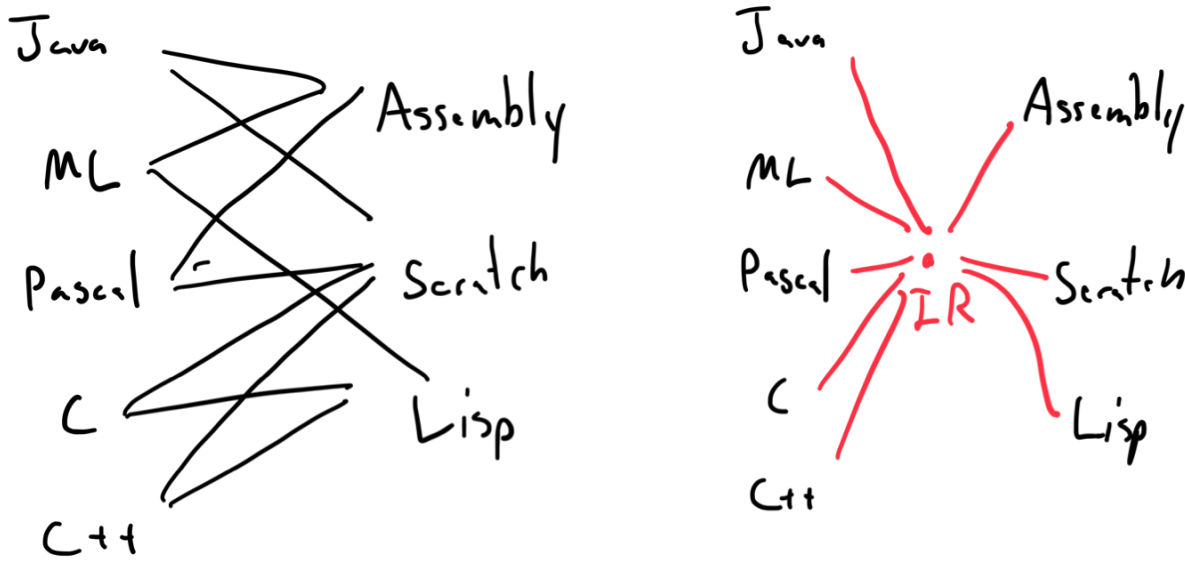
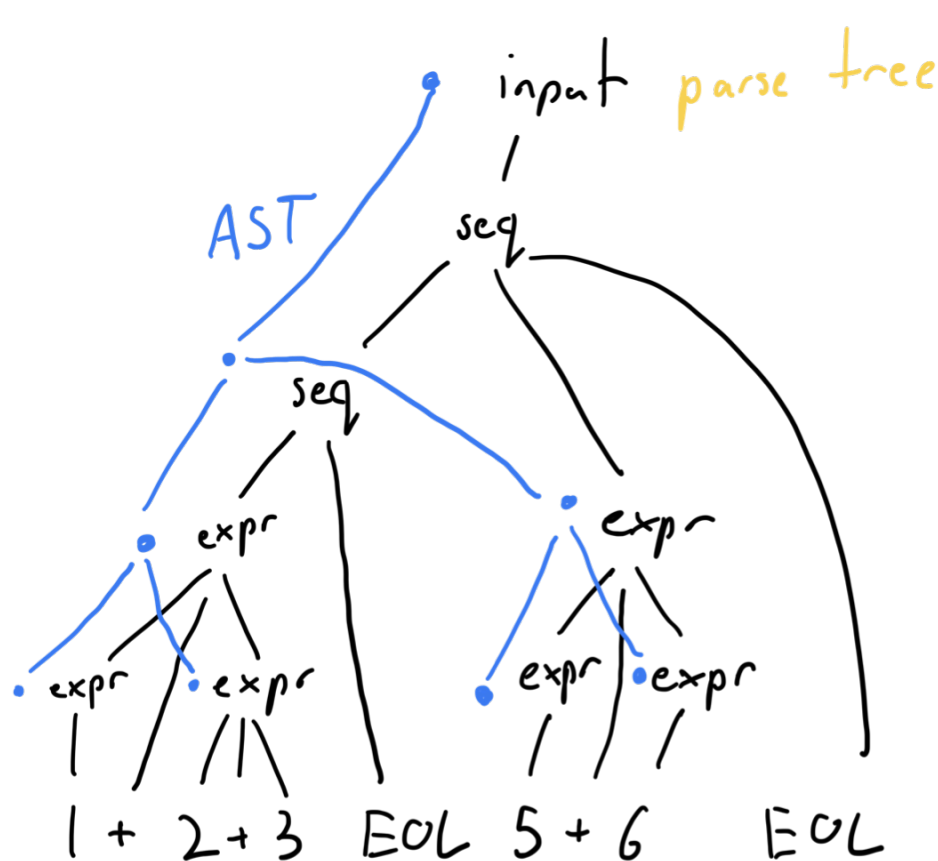
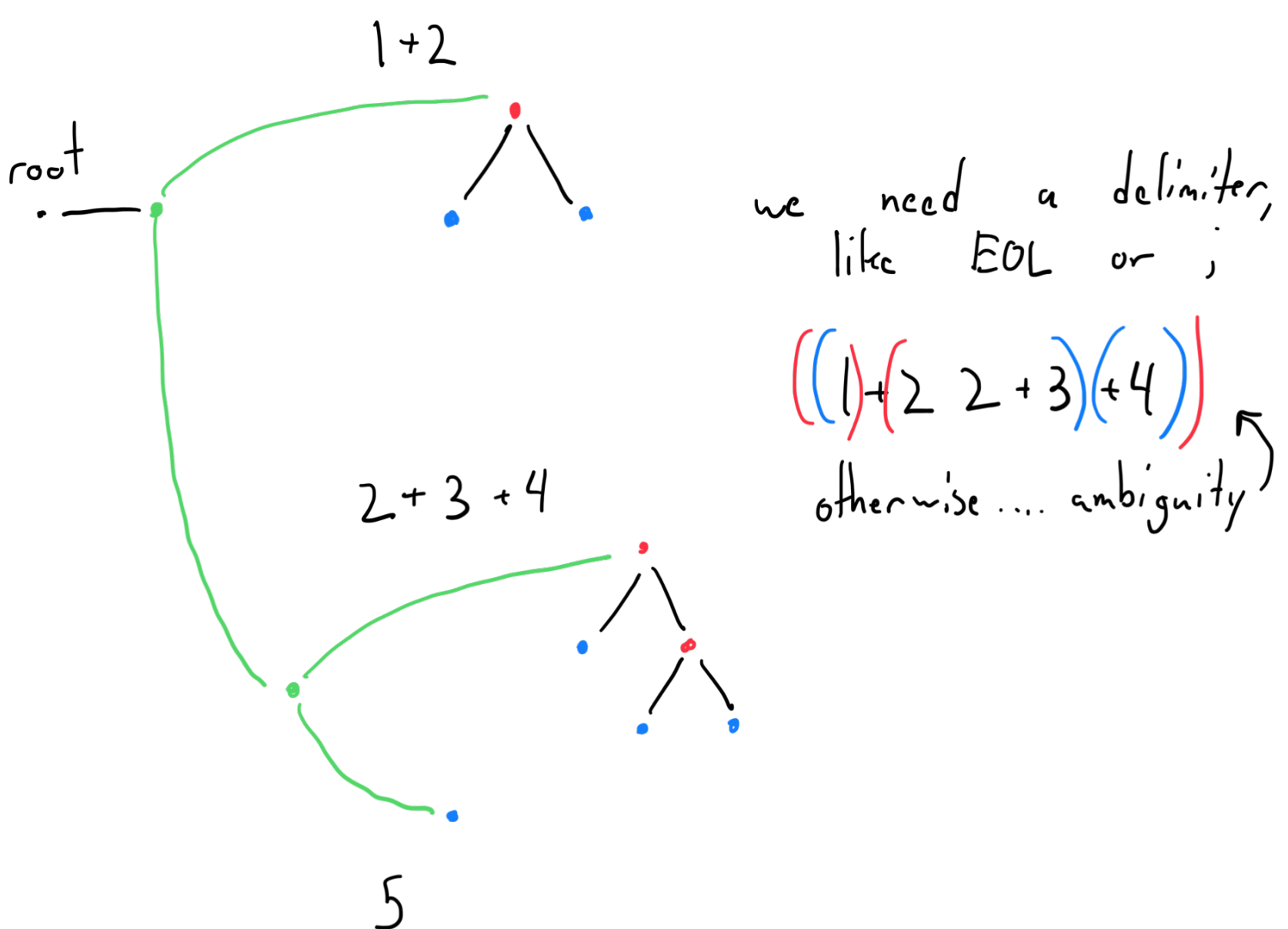
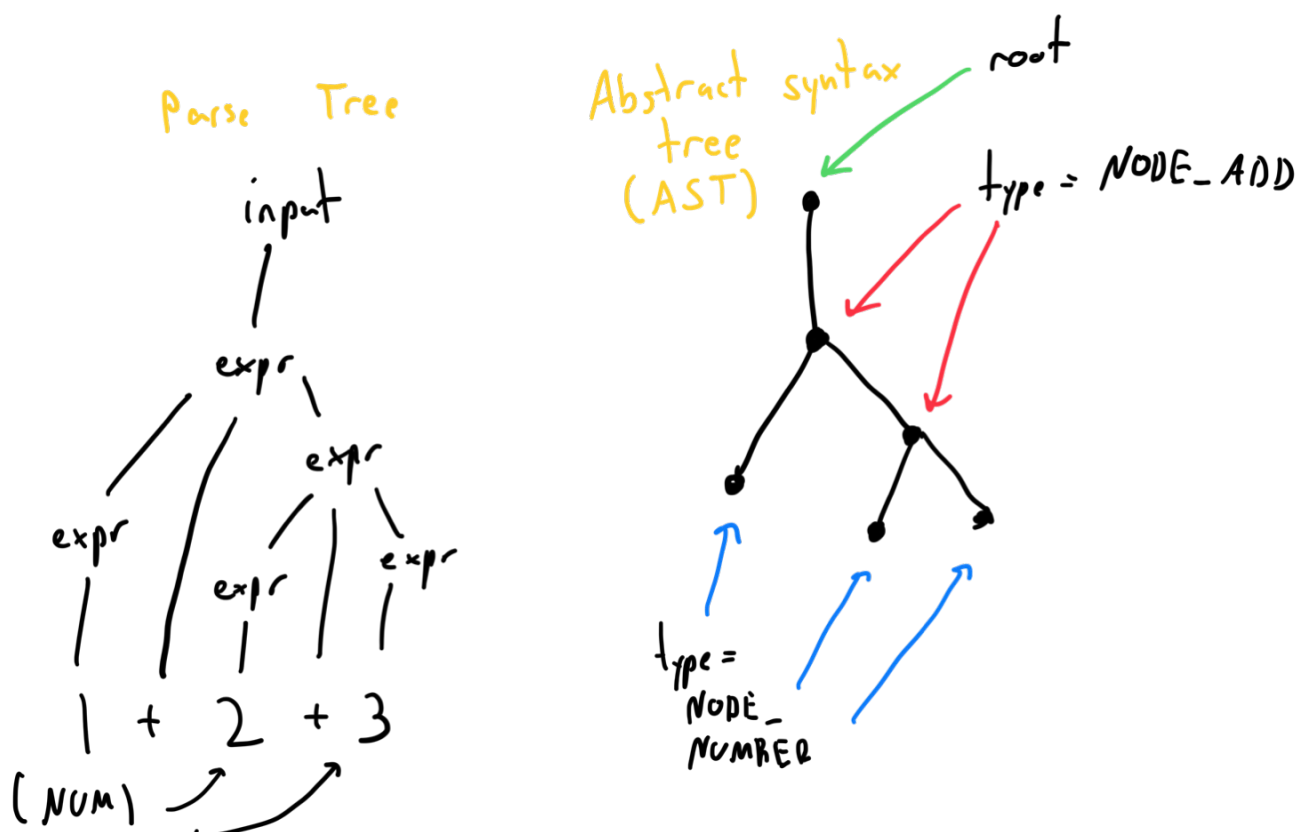


Intermediate Code Representation

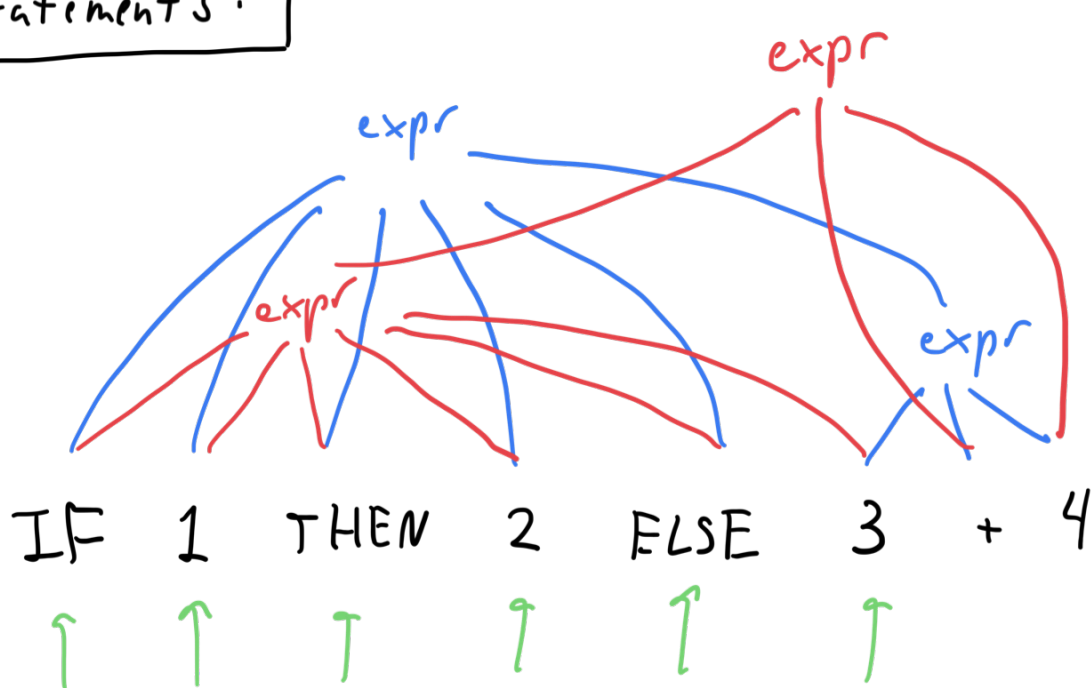
- a way of representing the structure of a source program.
- retaining a simplified parse tree



- without IR (intermediate representation) you get a "single-pass" (Bison's LALR parsing)
- with IR, you get multiple passes
 - check for depth
 - avoid "backpatching" - going over the generated code, making modifications
 - ensure a function is not declared more than once. If it is $\Rightarrow$ error.



If statements:



The if statement is ambiguous!
We should restrict it with an ENDIF or parenthesis.

expr :

| IF '(' expr THEN expr ELSE expr ')'