-precedence

Error:

-e free (n0 work same conflicts)

-conflict S/R conflict between e free lines and non-terminals that came after

-from expression and precedence and expr operators

Rearranging cup file so non terminal goes for next highest precedence

Error:

Rule 51: multiple variable declarations variables, causing error S/R conflict

Solved:

Adjusted the rule that geneataed the statementblock so that instead of being able to produce declarations followed by statements, it could only do either variableDec or statements. Productions used to generate variable dec was used to genearated

Error:

Nested if : S/R

-need have last else statement associate with last if statement

Ex:

If (Expr) **if (Expr) Stmt else Stmt;** else Stmt;

If (Expr) **Stmt;** else Stmt;

Problem: can either

1. **If (Expr) Stmt;** else Stmt

**IfStmt** else Stmt

1. **If (Expr) Stmt; else Stmt**
2. **IfStmt**

Solved:

Parser chose to shift, and that’s what we wanted it to do according to the rules of Toy

R/R

Problems with expr, created extra non terminals for precedence

got rid of Extra non terminals, used CUP associativity

R/R conflicts end in the same thing

Ex:

N 🡪 O

N 🡪 Expr && O

Solved:

All of them solved when combined took out all created non terminals(EX: M) and combined it and let CUP do the associativity

R/R

Between Type and Lvalue non terminals and brackets

There was discrepancy between the brackets

Solved: made a “middle man”, basically created a non terminal that combined so the lookahead

Was either right bracket or expr,

When did that created an issue if wanted to make the array a primitive type

Instead of Type -> int|double etc, Type -> primitive | nonprimitive

However, that creates an issue with VariableDecl. Before we assumed it would never go to function

Problem:

S/R conflict between lvalue and call when id is on stack and \_period is on input

Resolved:

Creating non terminal for id \_period