CSC301 Assignment #2

Due Friday 9/23 in Sakai.

**Problem 3.1 a**

Given the grammar G6:

G6:
<exp>* ::= <exp + mulexp> | <mulexp>
<mulexp> ::= <mulexp> * <rootexp> | <rootexp>
<rootexp> ::= ( <exp> ) | a | b | c

Add subtraction and division operators (- and /) with the customary precedence and associativity to the grammar.

**Problem 3.3 b**

Show that the following grammar is ambiguous:

<person>* ::= <woman> | <man>
<woman> ::= wilma | betty | <empty>
<man> ::= fred | barney | <empty>

**Problem 3.4 b**

Give an unambiguous grammar for the same language generated by the grammar in problem 3.3 b.