

P297.

Exercises for Section 4.9

! Exercise 4.9.1: Write a Yacc program that takes Boolean expressions as input [as given by the grammar of Exercise 4.2.2(g)] and produces the truth value of the expressions.

$bexpr \rightarrow bexpr \text{ or } bterm \mid bterm$
 $bterm \rightarrow bterm \text{ and } bfactor \mid bfactor$
 $bfactor \rightarrow \text{not } bfactor \mid (bexpr) \mid \text{true} \mid \text{false}$

Instructions for using our project server and submitting your assignments.

1. Make a new directory called PAYL
2. Navigate into the directory PAYL and type
 `make -f /home/CS4300/assignments/PAYL/Makefile`
 This will copy of README file in the directory and setup for your assignment submission. Please read the README file.
3. Your Yacc source file name must be called `bexpr.y` and your Lex source file name must be called `bexpr.l`. They all should be inside the PAYL directory.
4. To submit your files, under the directory PAYL, type
 `make submit`

You can use the following sample Boolean expressions to test your parser:

`true and (false or true) and not false`
`true or false and true`
`the and and`
`false or true and false`
`true and false or true`