



UNIVERSITY OF AMSTERDAM

ASSIGNMENT 3

Syntactic Analysis

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Course:

Compiler Construction

Course code:

5062COMP6Y

1 Introduction

2 Assignment

2.1 Precedence and Associativity

$$\begin{array}{lcl} \text{Expr4} & \Rightarrow & \text{Expr4} + \text{Expr3} \\ & | & \text{Expr} \\ \\ \text{Expr3} & \Rightarrow & - \text{Expr3} \\ & | & \text{Expr} \\ \\ \text{Expr2} & \Rightarrow & \text{Expr2} ++ \\ & | & \text{Expr} \\ \\ \text{Expr1} & \Rightarrow & (\text{Expr4}) \\ & | & \text{Id} \end{array}$$

Figure 1: Grammar of expressions with proper precedence and associativity according to the C standard

2.2 Left- and Right-recursive Grammars

2.3 Predictive Grammars

2.4 Recursive-descent Parsing