

Homework 2

(10 points)

Context-free grammars

1. Extend your lexical analyser with nested Modula-2 comments (see the lexical analysis lecture) as follows:
 - a. Use start conditions to recognise the Modula-2 comments; **(3 points)**
 - b. Count the total number of comments; **(1 point)**
 - c. Calculate the maximum nested comment level in the program. **(1 point)**
2. Write a context-free grammar for the Mini-Pascal language in the BNF form, based on the `sample.pas` program. **(5 points)**