Programmation Avancée et Compilation 2001
(Exercises)

3 Generated Scanners

Keywords 3

Give short explanations of the following keywords:

Scanner generator, *JLex*.

Exercise 4

For the following examples, give regular expressions in JLex notation:

(a) binary numbers,

(b) binary numbers without superfluous leading zeros,

(c) a sequence of digits (0 to 9) with an even number of 1s.

Can you give JLex expressions for the following examples? If you think you can, please do so.

(d) binary numbers that start and terminate with the same digit,

(e) a sequence of characters that can equally be read from left to right and from right to left (*palindrome*, for instance, anna, ada, rotator),

(f) a sequence of characters that does not contain ab as a subsequence.