

PROGRAMMING LANGUAGES

Dashboard ► My courses ► 1902-COL226 ► 21 February - 27 February ►
Assignment 2: Lexical Analysis for Spreadsheet Ass...

Assignment 2: Lexical Analysis for Spreadsheet Assignment

Read the resource file describing assignments 2-4.

In Assignment 2: you only need to provide the lex specifications, and so do not need to concern yourself with the meaning and implementation of the operations and how they are used.

You need to write clear specifications of the OCaml functions which you implement, and document your code.

Tokens for OCamllex would be, but not limited to:

- Float constants (with optional sign, no redundant initial zeroes before the decimal point or unnecessary trailing zeroes after the decimal point)
- Parenthesis — (and)
- Brackets — [and]
- Comma — ,
- Colon — :
- Indices I — [i , j]
- Ranges R — (I : I)
- Unary operators: **SUM**, **AVG**, **MIN**, **MAX**, **COUNT**, etc. (see below)
- Binary operators: **ADD** (addition), **SUBT** (subtraction), **MULT** (multiplication), **DIV** (division)
- Assignment operator :=
- Formula termination ; (semicolon)

The function operations can be one of the following:

Type 1 (unary operations on ranges of cells):


- COUNT
- ROWCOUNT
- COLCOUNT
- SUM
- ROWSUM
- COLSUM
- AVG
- ROWAVG
- COLAVG
- MIN

- ROWMIN
- COLMIN
- MAX
- ROWMAX
- COLMAX

Type 2 (binary operations on ranges of cells):

- ADD
- SUBT
- MULT
- DIV

Submission status

Submission status	Submitted for grading
Grading status	Not graded
Due date	Saturday, 29 February 2020, 11:59 PM
Time remaining	Assignment was submitted 58 secs early
Last modified	Saturday, 29 February 2020, 11:58 PM
File submissions	 Assignment2.zip
Submission comments	► Comments (0)

Feedback

Grade	10.00 / 100.00
Graded on	Sunday, 23 August 2020, 11:07 AM

◀ Informal Specification for Assignments 2-4

Jump to...



Assignment 3: Parser for Spreadsheet language ►

NAVIGATION

Dashboard

