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# Lab 04

## Language Recognition with ANTLR

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# Objective

- Implement a C-- language recognizer (parser) with ANTLR

# Syntactic Specification

- Open the description.txt file to see a syntax description of C--
- Open input.txt to see a sample input file

# Syntactic specification with ANTLR



# Autonomous work

1. Work in the Java project of the previous lab
  - Rename the previous Main to LexicalMain
2. Extend the Cmm.g4 file to recognize the language
  - Step by step process using the ANTLR plugin
  - Start with **expression** and test all its productions with the plugin
  - Do the same with the remaining non-terminals (**in order**): **statement**, **type**, **definition** and **program**
  - **Follow this process in order** until you are done
3. (Only) when you are done,
  - Copy the Main.java given into your project
  - Use Main.java to test your parser
  - Pass input.txt and any other files to test it