

Formal Languages and Compilers

Exam Rules

Practical part

The practical part, lasting **90 minutes**, consists in the development of a translator using Jflex and Cup directly on a PC of the LABINF laboratory.

1 During the exam

The test process is subdivided into the following steps:

1. Students must perform the login on the PCs using the ordinary LABINF credentials (a valid account at LABINF is required to take part in the examination).
2. Students have a couple of minutes to transfer from USB keys any kind of material (projects, guides, slides, ...). Consider the possibility to upload the material some days before the examination.
3. Any device attached to the **USB port** of the PC (with the exclusion of the keyboard and the mouse) must be removed.
4. A directory named `flc_exam_<date>` will be placed in each student home directory. (`<date>` represents the date of the exam in the YYYYMMDD format; for instance, if the exam date will be 2022/01/26, the directory will be named `flc_exam_20220126`).
5. This directory will contain the text of the exam (file `<date>_flc.pdf`), an example of the input file (`<date>_flc.txt`) and this document (`guide.pdf`) containing the exam instructions and some indications regarding the running version to be produced in the days following the exam.
6. **IMPORTANT: All the source files** of the project and the input file used to check the translator must be **saved in the `flc_exam_<date>` directory (only the content of this directory will be evaluated)**. This directory should not contain other material than the source files of the project, the `<date>_flc.txt`, the `<date>_flc.pdf` and the `guide.pdf`.
7. At the end of the test (after **logout**) the content of the `flc_exam_<date>` directory will be automatically collected.
8. The files regarding the test will be left on the home directories of the students (they can be used to produce the running version of the program).

2 After the exam

The test is rated 16/30 at most and it is passed with 8/30 at least.

Students **must** produce a complete and running version of their program after the test, and send it to stefano.scanzio@polito.it and riccardo.sisto@polito.it within 3 working days.

The email must contain:

1. all the **source files** used to perform the compilation process (Main.java, scanner.jflex, parser.cup),
2. the **input file** used to check the translator during the test,
3. a **text file** listing the differences between the original and the final version.

All the produced files should be saved inside a directory with name `<student.id>`, and the directory compressed in a file named `<student.id>.zip`.

It is possible to withdraw during the tests or lacking to send the final version of the program.