uc3m | Universidad **Carlos III** de Madrid

Computer Science
Language Processors

Rules

- The duration of the test is **30 minutes**
- Questions will not be answered during the test
- One cannot re-enter the classroom after leaving it
- The answers must be written using a pen (not a pencil)

1.- Write which is the phase and module of the compiling process that would carry out the following functions:

a) Assign a variable to the register 5.

b) Identify loop as a label.

c) Detect that in an assignment sentence, types are not compatible.

d) Change ind + 4*4 by ind+16.

e) Create the syntax tree.

f) Detect that a variable has not been declared.

2.- Describe in detail which are the steps for developing a lexical analyzer given a regular expression.

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