

Algorithmics 1

Introducing

Description

Semester 1 :

Definition of functions; control structures (FOR, WHILE, IF); variables; record type.

Basic algorithms (min, max, average, etc. applied to a collection of data)

Rules of typing and proper formation of a program.

Semester 2 :

Enumerated types; 1D, 2D arrays (matrices); exploiting structured data (nested arrays and records) ;

Basic algorithms (above) applied to structured data

Objectives

The objective, at the end of the two semesters of algorithmics, is to have understood :

- the notion of algorithm and typing ;
- nested data structures ;

and to be able to :

- design algorithms for simple problems (e.g. finding a min in a collection of structured data);
- write them as reusable subroutines (functions) in Ada ;
- test their validity using unit tests

Évaluation

L'évaluation des acquis d'apprentissage est réalisée en continu tout le long du semestre. En fonction des enseignements, elle peut prendre différentes formes : examen écrit, oral, compte-rendu, rapport écrit, évaluation par les pairs...

Practical info

Location(s)

 Toulouse