

Due date: Thursday, December 1, 2011, 8 am, upload in home folder of class

We recommend SWI-Prolog for the programming exercises. The latest version can be downloaded here: <http://www.swi-prolog.org/>.

Exercise 8.1

- a) Compare the concept of data typing in Ada with that of Prolog.
[2 points]
- b) What is the general form of a proposition in clausal form?
[2 points]
- c) What is the basic concept of declarative semantics?
[2 points]
- d) Explain two ways in which the list-processing capabilities of Scheme and Prolog are similar
[2 points]
- e) In what way are the list-processing capabilities of Scheme and Prolog different?
[2 points]

Exercise 8.2

- a) Write a Prolog program that succeeds if the intersection of two given list parameters is empty.
[5 points]
- b) Write a Prolog program that returns a list containing the union of the elements of two given lists.
[5 points]