cs310:
Programming Langauges
LCSEE, WVU, Spring 2012
Lecturer: Tim Menzies

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3.5 Project3: Roll Your Own Prolog

Preliminaries

Goals

The goal of this project is to understand the unification process at the core of logic programming.

What to Hand In

The print out generated from

```
../submit cs310 3[ab] yourName
```

Marking

The project is due April 2.

The project is in three parts, 3a, 3b, 3c worth 3, 4, 5 marks each.

- To gain one bonus mark, hand in 3a by Monday, Mar19
- To gain another bonus mark, hand in 3b by Friday, Mar23

Setup

```
mkdir someDir4project3
cd someDir4project3
wget http://unbox.org/stuff/var/timm/12/310/src/Makefile --user guest --password
make update
cd 310.3
ls
```

If that works, you should see

```
├── 15.lisp
└── main.lisp
```

Project 3a

Write a file answers3a.txt with answers to the following questions.

1. What does this return: (match '?x 1 nil)?
2. Why does the `match` function return two values?
3. Give an example of the kind of structure that would satisfy `var?`.
4. Give an example of the kind of structure that would *not* satisfy `var?`.
5. Why does *binding* call itself recursively *before* it looks at the cdr of the current binding?
6. The function `data1` includes a predicate `sameSex` that matches to two `person`s. Except for `gender`, every other field has a suffix that is either "1" or "2". Does `gender` need a suffix? Why or why not?

A revised form of `15.lisp` with: