

Homework VII Sample Solutions

Problem 1 -- see class directory

Problem 2

This solution follows the third alternative for this problem from the Midterm Exam solutions. A list is used for the set of people, and the 'intersect' function from the class directory can be used to put together results from the relational image already provided in the given Miranda specification.

```
sharedPhones db people
  = intersect [relImage db name | name <- people],
    if people = [name | name <- people & nameIn db name]  || all members?
  = error "Not a member", otherwise
```