Autumn Quarter, 2020

 Lecture 7: Records and List Comprehensions
 Home

 Policies
 Lectures

 Notes
 Notes

 bar, and baz? Think about it, and then test them out.
 Piazza

Exercise 7.2 Should the following definition be acceptable? Think about it, and then try it out.

```
data Data = One { data :: Int } | Two { data :: Bool }
```

***Exercise 7.3** The file **Records.hs** defines two **Teachers**, **professorChugh** and **professorKurtz**, and a "database" of **Students**, **allStudents**.

Implement the function

```
studentsOfTeacher_ :: [Person] -> Person -> [((Int, Int), [(String, String)])]
studentsOfTeacher_ students teacher = undefined
```

to return those students, identified by lastname-firstname pairs, enrolled in each of the teacher's courses. Your implementation can assume that students is a list of Student values and that teacher is a Teacher value.

For example:

```
> studentsOfTeacher professorChugh
[((16100,1),[("Student","B"),("Student","STEAM")])]
```

```
> studentsOfTeacher professorKurtz
[((16100,2),[("Student","C")]),((28000,1),[("Student","D"),("Student","E")])]
```

Once you are done, consider how one might eliminate the assumption above (but don't submit this).

© 2009–2020 Ravi Chugh, Stuart A. Kurtz Last modified: September 19, 2020