

### Alloy Practice #3

#### The Idle Rich

*Rich.als* contains a skeleton for solving the logic puzzle below, and *Rich.thm* is a theme for visualizing solutions (there should be exactly one solution in the end).

1. The parrot owner earns less than the pot-bellied pig owner.
2. The snake owner is not Nasir.
3. Of the person with the vacation home on the island of Tobago and the tarantula owner, one earns \$63,000 per year and the other earns \$180,000 per year.
4. Ryder earns less than the person with the vacation home on the island of Tobago.
5. The employee with the \$63,000 salary doesn't own property on the island of Saint Martin.
6. The tarantula owner owns vacation property on the island of Saint Martin.
7. The parrot owner earns more than the person with the vacation home on the island of Jamaica.
8. The 5 people were the pot-bellied pig owner, Marcus, the employee with the \$61,000 salary, the person with the vacation home on the island of Aruba, and the parrot owner.
9. The hamster owner is not Celeste.
10. The employee with the \$233,000 salary is Celeste.
11. Either the pot-bellied pig owner or the snake owner is Nasir.

If you decide to do this practice exercise, submit your static model with the name ***Rich.als*** to the ***Alloy Practice*** drop box by noon on Thursday, 20 February.

**NOTE:** You must submit at least one of the three practice activities by the due date and time to receive any activity credit. You may submit as many as all three.

**NOTE:** Anything you submit by the end of the day on Monday, 17 February, will be quickly examined and returned with any relevant comments by noon on Thursday, 20 February, so you can use these to study for the exam on Friday, 21 February.

**NOTE:** Instructor solutions will become available on myCourses in the Content area around noon on Thursday, 20 February.