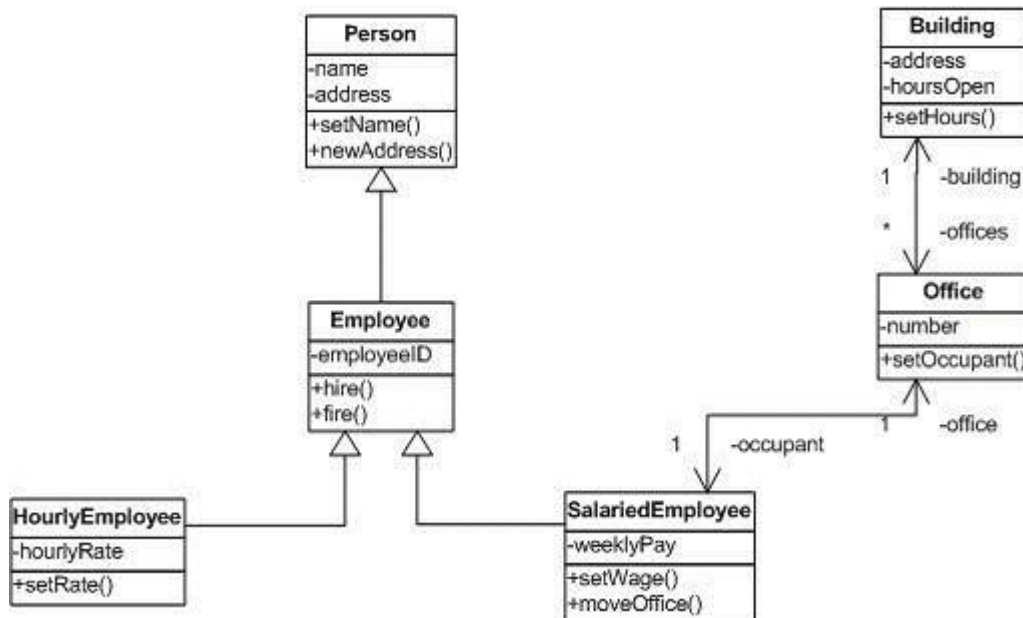


**SUMMER 2007 CS1316**  
**UML PRACTICE QUESTIONS**

**1. UML Diagram 1**

Answer the questions below about the UML diagram here (Assume that all instance variables have public access +) :



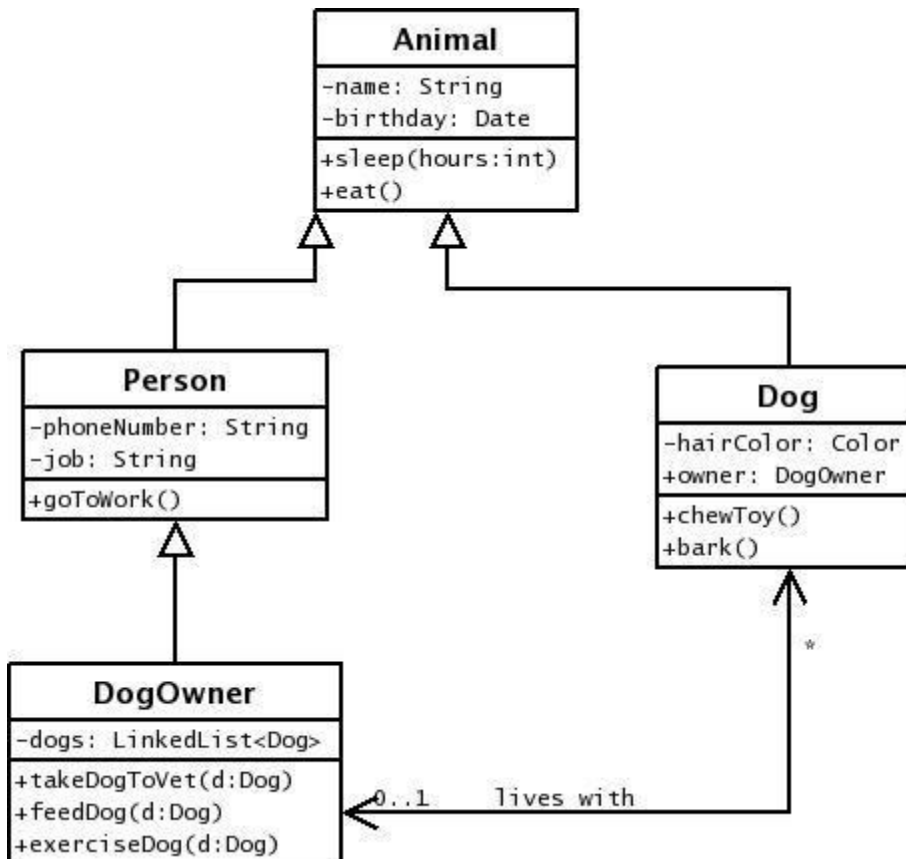
- Instances of which classes have a field (instance variable) named address?  
**Person, Employee, HourlyEmployee, SalariedEmployee, Building,**
- Do HourlyEmployee instance have Offices?  
**No,**
- By what name do instances of the class Office know their Building instances?  
**Building.**
- List all the fields (instance variables) of a SalariedEmployee.  
**weeklyPay, employeeID, name, address, office**
- List all the classes whose instances can understand the method fire().  
**The method fire() can only be used on Employee, HourlyEmployee, SalariedEmployee instances**
- List all of the instance variables in Person.  
**name, address**
- List all of the instance variables in HourlyEmployee

hourlyRate, employeeID, name, address

- h. List all of the instance variables in Office instances  
number, occupant
- i. Instances of what classes can use the method hire()?  
The method hire() can only be used on Employee, HourlyEmployee, SalariedEmployee instances
- j. How many Offices of a Building can exist?  
0 to infinity (0...\*)
- k. How many Buildings are associated with a given Office?  
1

## 2. UML Diagram 2

Answer the questions below about the UML diagram here (Assume that all instance variable have public access +):



- Which classes understand the method `eat()`?  
**Animal, Person, DogOwner, Dog**
- Which classes have a `phoneNumber`?  
**Person, DogOwner**
- Which classes understand the method `chewToy()`?  
**Dog**
- How many Dogs can each DogOwner have (min and max)?  
**0 to infinity (0..\*)**
- Which classes have a `name` field?  
**Animal, Person, DogOwner, Dog**