

CIS 120 : PROGRAMMING LANGUAGES AND TECHNIQUES

QUIZ : September 18th, 2007

- (1) You have been asked to create a model of a lottery ticket generating system. Create a class called `LotteryTicketFactory` and a nested class in `LotteryTicketFactory` called `LotteryTicket`. `LotteryTicketFactory` will have a `nextTicket()` method which will return a new `Ticket` and a `ticketsGenerated` method which will return the number of tickets created. The constructor for the `LotteryTicket` class should take one argument, the ticket number, which must be unique from ticket to ticket (an easy way to do this is use the ticket number). **10 points**
- You will be graded on both functionality and coding style.

- (2) Using the following class, `Building`, complete the following DrJava interactions: **5 points**

```
public class Building{
    public String name;
    public Building(String name){
        this.name = name;
    }
}

> Building grw = new Building("Graduate Research Wing");
> grw.name

> Building levine = new Building("Levine");
> grw = levine;
> grw.name

> levine.name = "Levine Hall";
> grw.name
```