

Question 1

[12 marks]

Consider the following definition of the class `Flock`. Notice that is this a simplified version of a class we studied in lecture.

```
package lab5;
public class Flock {
    private lab5lib.Bird _t1;
    public Flock(lab5lib.Window w) {
        _t1 = new lab5lib.Bird();
        w.addShape(_t1);
    }
    public void startFlying() {
        _t1.startFlying();
    }
    public void stopFlying() {
        _t1.stopFlying();
    }
}
```

Now consider the definition of `LargerFlock`, a subclass of `Flock`, and do the following:

- (a) define the `startFlying` method of `LargerFlock` so that when called, only the `startFlying` method of `_t2` is invoked, and
- (b) define the `stopFlying` method of `LargerFlock` so that when called, the `stopFlying` method of both `_t1` and `_t2` is invoked.

```
package lab5;
public class LargerFlock extends Flock {
    private lab5lib.Bird _t2;
    public LargerFlock(lab5lib.Window w) {
        super(w);
        _t2 = new lab5lib.Bird();
        w.addShape(_t2);
    }
    public void startFlying() {

        // ANSWER
        _t2.startFlying();

    }
    public void stopFlying() {

        // ANSWER (notice that order of the two method calls does not matter):
        super.stopFlying();
        _t2.stopFlying();

    }
}
```

SOLUTION #8 — 2.5%

Name (print, surname first): _____

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Signature: _____

15 minutes

Person #: _____

 A1 (T@8) A2 (W@4) A3 (R@12) A4 (W@8)

This assessment has 1 pages. Check that you have a complete paper.

Each candidate should be prepared to produce, upon request, his or her SUNY/UB card.

This examination has 1 questions. Answer all 1 questions.

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Question	Points
1	/12
TOTAL	/12