

# CompSci 4

## Final Review

### Dec 6, 2007

Prof. Susan Rodger



# Announcements

- Be A UTA Fall 2008 – CompSci 4 Alice
- Hiring 5 students for 10 weeks in summer
  - Teach Alice to middle/H.S. teachers (4 weeks)
  - kids Alice camp (2 weeks)
- Research Study survey
  - Will be emailed to you this week
  - See Camelia in LSRC D230 if still want to join
- Final exam
  - Sec 1 – Friday 7-10pm, Dec 14
  - Sec 2 – Saturday 7-10pm, Dec 15
- Java classwork – submit by tonight!
- Review Session
  - Monday, Dec 10, 1:30-3pm, Room: **LSRC A247** (same building as our classroom, but other end of the building)

# Prof. Rodger - Extra Office Hours

- Thursday (today)
  - 1-2pm
- Friday (this week)
  - 8-9, 10-12, 1-2pm
- Monday (next week)
  - 8:30-11:45am
- Tuesday/Wed/Thur (next week)
  - 8:30-11:45, 1:15-2:15pm
- Fri (next week)
  - Not sure if I can come in this day...

# Grades

- From the Course Web page:

class participation	10%
classwork	20%
readingquizzes	5%
assignments/homework	15%
two exams	30%
final exam	20%

- Reading Quizzes – 157 points total
  - 132 and above will be 100% (drop 25 points)
- Classwork – no drops, you can still turn in Java until midnight tonight.

# Java Method Signature

```
public int Mystery(int [] lotsOfValues)
{ // body here
}
```

- public – accessible by all other methods
- int – type of value returned
- Mystery – name of function
- int [] lotsOfValues
  - Array of integers

# What does this Java function do?

```
public int Mystery (int [] lotsOfValues)
// assume lots of values has at least one value in the array
{
    int temp = lotsOfValues[0];
    for (int index = 1; index < lotsOfValues.length; index ++)
    {
        if (lotsOfValues[index] < temp)
        {
            temp = lotsOfValues[index];
        }
    }
    return temp;
}
```

# Final Exam

- HTML is NOT on the final exam
- Covers Chapters 1-2,4-7, 9-11
- Covers Java (smaller amount)
- Mix of MC, short answer, write code
  - Similar format to tests 1 and 2
- Closed books, closed notes
- Alice: Will give list of properties, methods, functions for an object
- Java: will give string methods, example code

If I give you a method with ...  
What do you write down first?

1. An Alice list – suppose it is called *balls*
2. An Alice array – suppose it is called *animals*
3. A Java string where you do something to each character in the string – string is called *dna*
4. A Java array of strings – array is called *prots*



# How to Study

- Reading Quizzes – will put on Blackboard
- Classwork – review, try to write code on paper – especially Java APT methods and Alice methods from tests
- Assignments – review (especially Asg. 6)
- Practice **writing** code – if, loop, array, list, etc.

# CompSci 6 - Java Demos

- CompSci 6 classwork
- Feb 23 – Bouncing Balls
- March 21 – Images
- 08 – Name Surfer
- Apr 11 – Drawing repetitive patterns

# If I give you a method with ...

## ANSWERS for previous slide

1. An Alice list – suppose it is called *balls*

For all world.balls, one obj item\_from\_balls at a time

2. An Alice array – suppose array animals size 5

Loop index from 0 up to but not including 5 incr by 1

3. A Java string where you do something to each character in the string – String dna

for (char item\_from\_dna: dna.toCharArray())

4. A Java array of strings – array is called prots

for (String item\_from\_prots: prots)