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)
  – 8:30-11:15, 1:15-2:15pm
• Fri (next week)
  – Not sure if I can come in this day…

Grades
• From the Course Web page:

```
<table>
<thead>
<tr>
<th>Component</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>class participation</td>
<td>10%</td>
</tr>
<tr>
<td>classwork</td>
<td>20%</td>
</tr>
<tr>
<td>reading quizzes</td>
<td>5%</td>
</tr>
<tr>
<td>assignments/homework</td>
<td>15%</td>
</tr>
<tr>
<td>two exams</td>
<td>30%</td>
</tr>
<tr>
<td>final exam</td>
<td>20%</td>
</tr>
</tbody>
</table>
```

• 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?

```java
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)