Program 1 In-Review

COMP 110
Summer II 2012

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7/5/2012
Announcements

- Lab 4 was Due at 9:45 am
- Program 1 is Graded
Questions?

- **Tuesday:**
  - Lab 1 & 2 In-Review
  - Introduction to Classes
  - Lab 5
Today in COMP 110

- Program 1 In-Review
- Lecture: More About Classes
Nearly everyone got the total time and the breakdown of the time parts correct.
Extra Credit: Correct Grammar

- Common solutions included
  - One call to println with three ?:'s
    - (minutes == 1) ? “1 minute” : (minutes + “ minutes”)

- Three if/else blocks
  - System.out.print("That is " + days);
    if(days == 1)
    {
      System.out.print(" day, ");
    }
  else
  {
    System.out.print(" days, ");
  }

- Note that the last if/else block should use println
Extra Credit: Correct Grammar

- Full bonus credit required
  - Days
  - Hours
  - Minutes
  - Total Minutes
Common Issues: Names

- Filenames & MANIFEST.MF
  - All of the proper specifications are listed in the assignment or are link to pages in the Resources section

- Variable Names
  - Similar issues as Lab 1 & 2
  - Variable name should match the meaning behind the value
  - Use camelCase
  - Don’t use single letters or n1
Common Issues: Comments

- Zero comments is not acceptable

- Everyone that had at least a few comments, had enough comments

- However, comment spacing was an issue
Comment Spacing: General

**Poor Spacing**

```
// Comment 1
action1();
// Comment 2
action2a();
action2b();
// Comment 3
action3();
```

**Good Spacing**

```
// Comment 1
action1();
// Comment 2
action2a();
action2b();
// Comment 3
action3();
```
Comment Spacing: If/Else

**Poor Spacing**

```c
// If a is 5, then do action 1
if (a == 5)
    action1();
// Else do action 2
else
    action2();
// If b is 4, then do action 3
if (b == 4)
    action3();
// Else do action 4
else
    action4();
```

**Good Spacing**

```c
// If a is 5
if (a == 5)
{
    // Then do action 1
    action1();
}
else
{
    // Else do action 2
    action2();
}
// If b is 4
if (b == 4)
{
    // Then do action 3
    action3();
}
else
{
    // Else do action 4
    action4();
}
```
Ending the Program

For programs that use Console I/O

- The last printing statement executed should be a call to System.out.println(...), not a call to System.out.print(...)

- Unix/Linux/Mac terminals expect programs to behave like this in order to display the prompt after the program stops

- Utilities for all platforms like having a newline at the end of output for parsing reasons
System.out.println(" ") and System.out.println(" ") are not the same
- The first outputs a line containing a space, the second does not
- Utilities analyzing the program output may behave differently for the different outputs

System.out.println("") and System.out.println() are the same
I enjoyed reading & running the programs that included bonus text or dispensed extra advice to the Commander.
Suggestions For Future Homework

- Comment your programs

- Use Source | Format to fix tabbing issues
  - It can also help indicate possible if/else and loop issues

- Test your programs against the sample input and output
  - The numeric results must match for full credit

- Be aware of how late days work
  - 1 late day = 24 hours from the due date & time
  - If unsure of how many you have left, send me an email
Questions?
Logistics

- Next:
  - More About Classes