Before class begins

- Snarf the code DrawCircles
- In case you had problems getting it working earlier, here is the url
  - http://www.cs.duke.edu/courses/fall12/compsci201/snarf
- If you are still having problems with eclipse and ambient DON’T WORRY
  - sit in the front (your) left of the room for help
Compsci 201: Data Structures and Algorithms

Recitation
About me

[Map showing various locations including PARC, Bucknell, Carnegie Mellon, UCL, and Universitat de Barcelona]
Interesting CS applications

Real

Virtual
Recitation

• Practice
• Practice
• Practice
• Lecture
• Practice

• You NEED your laptop!
Feedback

• email
• talk to me
• anonymous
  • http://www.cs.duke.edu/csed/feedback/
Eclipse and Ambient

• Let’s get this working
Loops

```java
for(int i=0; i<5; ++i)
    for(int j = 5; j > i; --j)
        if(i%2 == 0)
            System.out.print(i+j + " ");
```

What is the output?

A. 5 4 3 2 1 7 6 5 9

B. 5 4 3 2 1 8 7 6 10

C. 6 5 4 3 2 7 6 5 9

D. 6 5 4 3 2 8 7 6 10
Java Syntax

• Loops

• for (int i = 0; i < x.length ; ++i) {
    x[i] += 2;
}
Array Syntax

- **Arrays**

```java
int[] x = new int[5];
```

- Type

- # of elements

- Create an object

(more on Monday)
Types

- Which can be a valid Java statement?

A. int[] x = new double[7];
B. String[] s = new String[3000];
C. Dog[] d = new Dog[20];
D. B and C
Practice

- Snarf the code DrawCircles
  - http://www.cs.duke.edu/courses/fall12/compsci201/snarf
- Read the assignment
  - It is on the website under Recitation
- Start coding!
- Help your friends!
Assignment

• 2 APTs (on the webpage)
  • Due Monday

• Make a new class for each APT
• Class and method name must be the same
• Test your APT online as many times as you want