Lecture 3: Software engineering

- A few leftovers on object representation
  - arrays
  - this & methods
  - null

- Software engineering, by example
  - specifications
  - test driven development
  - private / encapsulation

Announcements
- Project 1
- github
- Discussion
- Piazza
Array is a kind of object, but instead of fields, has numbered entries

int[] is the type of an array of ints

int[] a = new int[4]; // length

a[0] = 4;

a[1] += 1;
class Demo {
  public int printX(int x) {
    System.out.println(x);
  }

  int x = 5;
}

Demo d = new Demo();
Demo d2 = new Demo();

Every object has a special variable called "this".
Inside a method, if x is a field, "x" is shorthand for this.x.