Announcements:
Ch 8 up soon. Next program due Monday. Grades for programs 1, 2, 3, 4 now official. Current OWL assignment due Friday.
Captive Lab sessions: thur 230–5, fri 10–1230/LGRT 213
Midterm solutions posted / Midterm speech. Exam consult? See prof Moll Thur afternoon, Mon afternoon 130–245

Some problems:

Arrays:
Declare an array of 12 booleans called boo
Declare an array of 19 doubles called nums
Declare an array of 5 Infants called littleOnes
Declare an array of 5 CoffeeMugs called myMugs

```java
public class CoffeeMug{
    String who; // whose mug is it?
    int capacity; // oz held in mug
    boolean full; // is cup full or not – will only be full or empty

    public CoffeeMug(String w, int cap, boolean f){
        who = w;
        capacity = cap;
        full = f;
    }
    public String getWho(){ return who;}
    public int getCapacity(){ return capacity;}
    public boolean getFull(){ return full;}
    public void setWho(String other){who = other;}
    public void setFullStatus(Boolean isFilled) {full=isFilled;}
}
```

Now: fill myMugs with cups that are all jill’s, first 3 10 oz, last 2 12 oz. – all full
Next: empty them all (note: array parameter contents ARE changed)
Next: fill them all
Next: print a report about each mug
Next – add a method to class that’s passed an array of mugs, and returns the number that are full.

Declare an array of 6 hunks of cheese
public class Cheese{
    String name;
    int amount; // in grams

    public Cheese(String which, int amt){
        name = which;
        amount = amt;
    }

    public String getName(){return name;}
    public int getAmount(){return amount;}
    public void setAmount(int amt){amount = amt;}
}

add a method avgHunk that’s passed an array of Cheese objects, returns average size of objects (in grams)

add a method cheeseNames that’s passed an array of Cheese objects, prints to console, in a column, the names of the cheeses in the array. (do one name per line)

add a method eatSome, passed an array of Cheese objects and a nibbling fraction (e.g. .15), then reduces amt of each hunk by that fraction.

Also: an addArrays method -> passed two int arrays, etc..

Exam errors: redMug.setFullStatus(“true”); redMug.setWho() = “sally”;
Math.sqrt() - a static call, no object, just class name
For loop – third compartment -  j = j+3; NOT simply j+3
Scanner operation: make the object, provide a prompt, then read: nextInt();
Structure of one class applications