Review Topics for Mid Term 1

Important Times, Dates, and other Details

- Mid Term 1 will be given during normal lecture hours.
- Monday 13 October 2014
- In CSIC 1115
- Time allocated: approximately 45 minutes—including the time to distribute and collect exams.

What to bring and What not to bring

- Bring at least two of your favorite writing implements.
- DO NOT bring electronic devices. If you must have these, make sure that they are turned off and put away before the exams are distributed.
- DO NOT bring food or beverages —unless you have a medical reason for doing so.

Topics, in no particular order

Data Types

- Data Types: including the "size" of the most common primitive types, that is, `int`, `double`, `long`, `byte`, `float`, `boolean`, `char`, etc.
- Phases of computation: lexical or compile, linking or loading (statics), and dynamic or execution-time.
- Kinds of errors typically seen in computer programs.

Other Data types

Strings

- Direct use of `Strings` in constructing output for users.

- Use of the + operator to concatenate `Strings` in various settings.

- Common uses of the `Scanner` object, i.e., getting input from a user.

Topics, in no particular order, cont'd.

Control-Structures

- Variable declarations & Assignment statements.

- Logical operators, &&, || and !.

- De Morgan's Laws.

- If statements.

- Using any of the three main iteration statements: do, while and for in a short programming fragments.

Methods and such

Anatomy and use of Methods

- Basic parts of a Method.
- Determine which method will be called given particular numbers and types of data.
- Calling conventions: calling both static and object methods within code fragments, e.g., how to call a Scanner method to retrieve data.