Course Wrapup

We've done a lot this semester!

Three major aspects of the material -

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Course Wrapup

- going from idea to program
 - usage and structure patterns

```
    e.g. "write a program..." →
    public class X {
        public static void main ( String[] args ) {
        }
    }
```

- e.g. storing information → variable
- e.g. making a choice → if + structural variations (do or don't do, choose exactly one alternative, choose at most one alternative)
- e.g. repeat → loop + structural variations (repeat until, repeat as long as, repeat n times, repeat from a to b by interval c)

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Course Wrapup

- syntax and semantics of Java what you can write down and what it means
 - variables, expressions, statements (assignment, conditionals, loops), arrays, subroutines/functions, classes/objects, inheritance, ...
 - should be memorized and come automatically
 - practice!
 - while the material is new, have an easily-accessible list of the forms and representative examples to refer to

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Course Wrapup

- · going from idea to program
 - working out algorithms
 - pseudocode
 - · iterative refinement
 - · drawing before-and-after pictures / examples
 - development tactics
 - · start with the easy stuff
 - · incremental development
 - placeholder variables and function/method bodies, to stand in for code not written yet
 - program organization
 - · identifying subroutines/functions/helper methods
 - · identifying classes and public methods
 - textual analysis

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Course Wrapup

- learning new things
 - navigating information sources
 what they are
 what they are good for
 extracting information
 - knowing what to memorize and what can be looked up strategies for memorization
 - - e.g. create easy-to-reference summaries of key things
 - practice!

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