Chapter 8 Stuff

* A **control structure** is a control statement and the statements whose execution it controls
* Design question
  + Should a control structure have multiple entries?
* A **selection statement** provides the means of choosing between two or more paths
* **Two-Way Selection Statements**
  + General Form
    - If control-expression
      * Then clause
      * Else clause
* **The Control Statement**
  + Clause form: in many contemporary languages, the ‘then’ and ‘else’ clauses can be single statements or compound statements
    - Java’s static semantics: else matches with the nearest previous if
* **Iterative Statements**
  + The **repeated execution** of a statement or compound statement is accomplished either by iteration or recursion
  + **User controlled loops**
    - Allows user to control the loop from any part of the body using ‘break’ or ‘continue’
* **Unconditional Branching**
  + Transfers execution control to a specified place in the program
  + Major concern is readability