Code for Teachers

A practical approach to programming

Chapter 2-1:
The Power of Iteration

Basic Concepts

- In addition to *conditional statements*, we can use *iteration* to control the "flow" of a program.
  - Iteration == *loops*
- Loops repeat a given set of instructions
  - Either for a prescribed number of repetitions, or…
  - …until a condition is no longer satisfied
- Why are loops useful?
  - Much of computational work is repetitive
  - Often over very large sets of data
- Loops allow us to uphold the DRY rule
  - Don't Repeat Yourself

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