Code for Teachers

A practical approach to programming

Chapter 2-4: Multiplication with a for Loop

Basic Concepts

- Multiplication is just repeated addition
 - So we can write a loop
 - Take two numbers and repeatedly add one to the other
- What kind of loop?
 - Do we know how many times we need to loop?
 - Yes, either term can be our loop counter, thanks to the commutative property
 - Therefore, we use a for loop.

Program Design

- Take two numbers, x and y.
- Create a product variable, initialized to 0.
- Loop x or y times, adding the other value to product



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