## CSE 142 Computer Programming I

Problems, Algorithms, and Programs

B-1

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## On to C Programming

## Problem: Write a program that returns the coins required in change at a cashier.

Example: If the total change is \$28.22, return: - 22 pennies, or - one dime, 2 nickels, 2 pennies, or

Example: If the total change is \$20.84, return: - 3 quarters, 1 nickel, and 4 pennies.

Refinement: Return the fewest coins possible.

## Vocabulary / Concepts

- Problems and algorithms
- · Variables and variable names
- Keywords
- Comments
- Stepwise (top-down) development of the program
- Compiling versus executing
- (Sequential) Control flow Breakpoints and debugger execution
- Syntax (errors) versus semantics (errors)

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