

Programming

Exercise

5.3

Making Change, v.2.0

Purpose. Practice writing programs that use console keyboard input.

Modification of Exercise 3.4's changeDue1.cpp, replacing programmer-defined inputs with console

inputs. Name the new program changeDue2.cpp.

Requirements:

1. Write this program by copying, pasting, and marking up Exercise 3.4's changeDue1.cpp.
2. Expect the user input "cash payment" to be less than or equal to the amount "tendered".
3. Expect the user input "cash payment" to not be zero or negative.
4. The paid out bills should include the fewest number of bills. That is, don't include two \$10 bills when you can include one \$20 bill instead.
5. Include a label with any statement that outputs a variable's value.

Program I/O. Input: 2 console input whole numbers for the "cash payment" and for the amount "tendered" Output: The "change due" and the numbers of each specified denomination to be "paid out".

Example. Here's what the output should look like, with user input in blue:

Cash payment amount: 45000

Tendered amount: 100000

Change due: 55000

Change paid out in:

this many hundred thousand dollar bills: 0

this many ten thousand dollar bills: 5

this many five thousand dollar bills: 1

this many thousand dollar bills: 0

this many five hundred dollar bills: 0

this many hundred dollar bills: 0

this many fifty dollar bills: 0

this many twenty dollar bills: 0

this many ten dollar bills: 0

this many five dollar bills: 0

this many two dollar bills: 0

this many one dollar bills: 0