

Programming Project #3

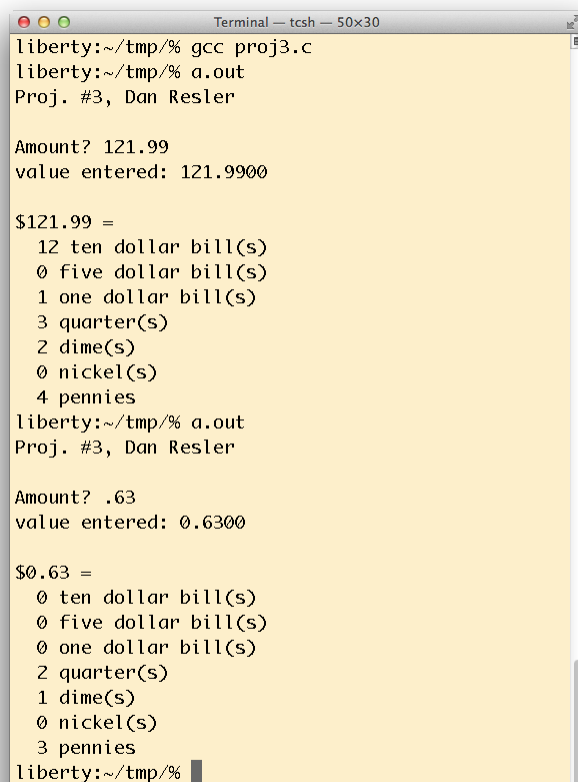
EGRE245 Spring 2015

Fewest Number

1 Overview

Write a complete C program that prompts for and reads a positive `float` value representing a monetary amount; you may assume the value entered is correct (legal). Echo print the value entered rounded to 4 decimal places. Then you are to determine and report the *fewest* number of each bill and coin needed to represent that amount (assume that a ten-dollar bill is the largest size bill available). Note that you should output counts for *all* bills and coins; see the sample run below for an example. Make sure you label all of your output *exactly* as shown in the example run.

2 Sample Run



```
Terminal — tcsh — 50x30
liberty:~/tmp/% gcc proj3.c
liberty:~/tmp/% a.out
Proj. #3, Dan Resler

Amount? 121.99
value entered: 121.9900

$121.99 =
  12 ten dollar bill(s)
  0 five dollar bill(s)
  1 one dollar bill(s)
  3 quarter(s)
  2 dime(s)
  0 nickel(s)
  4 pennies
liberty:~/tmp/% a.out
Proj. #3, Dan Resler

Amount? .63
value entered: 0.6300

$0.63 =
  0 ten dollar bill(s)
  0 five dollar bill(s)
  0 one dollar bill(s)
  2 quarter(s)
  1 dime(s)
  0 nickel(s)
  3 pennies
liberty:~/tmp/%
```

3 Deliverables

You should turn in a stand-alone, complete application program (your source code) containing a `main` function. Name your source code file `proj3XXXX.c` where `XXXX` is the last 4 digits of your student id number. For example, if your student id number is V12345678, your file will be named `proj35678.java`. Projects this term will be submitted via the web using a link off of the class web page. Be sure to document your code in the manner described in class.

Due date: Thursday, February 12