

**Programming and Problem Solving
Winter 2015 – CS110-001**

Quiz #1 – February 13 @ 8:30 in CL112

Name: _____

Student Number: _____

Answer all questions on these pages of the quiz, in the space provided. You have 50 minutes to complete the exam. There are 4 short answer questions on this page and 1 programming question on the next page.

There are 20 marks available on this quiz:

Short Answer (4):	/ 4
Programming (16):	/ 16

	/ 20

Short Answer (4 questions, 1 mark each):

1. If you write a program that compiles without any issues, does that mean your code has no *errors*? Give 1 example.

2. Recall that we did some examples that associated a number with each day (Sunday is 0, Monday is 1, ..., and Saturday is 6). Write a descriptive message to be displayed by the following `cout` :

```
if (!day)
{
    cout << // write your descriptive message here
    cout << endl;
}
```

3. What value is printed from the `cout` in the following code snippet?

```
float value = 7.2894513;
cout << static_cast<int>(value * 100) / 10.0 << endl;
```

4. What is the output of the following code snippet?

```
int a = 2;
int b = 3;

cout << (a < b ? a : b) << endl;
cout << min(a,b) << endl;
```

Programming Question (16 marks):

Write a correct, thorough, and readable C++ program that takes input of an amount of money in cents (there are 100 cents in a dollar) from the user. Convert this input amount into dollars and display it. Ask the user if she would like this amount expressed in 20 dollar bills (and dollar coins) or 50 dollar bills (and dollar coins). Based on the user's input, perform the requested conversion and display the results. Document your code. However, in the header documentation, only include your main algorithm.

CS 110-01 Quiz #1: 13 February 2015

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