CSC4-151 Discrete Mathematics for Computer Science
Quiz 4 December 9, 2014

solution
name

8 pts possible. Calculators are not allowed on this quiz.

1. (2 pts.) Add the binary numbers: 101010101 + 11100011. Show your work.

```
  1 1     1 1
  101010101
+ 11100011
-----------
 1000111000
```

2. (6 pts.) a. Convert the following binary number to hexadecimal: 1011110110. Show your work.

2 F 6

b. Convert the following decimal number to binary: 75. Show your work.

75 - 64 = 11 11 - 8 = 3 3 - 2 = 1

1001011

c. Convert the following hexadecimal number to octal: $FA6_{hex}$. Show your work.

```
111 110 100 110
 7   6   4   6
```