

**UNCA CSCI 255**  
**Exam 2 MIPS32 redo Fall 2015**  
20 November, 2015

This is a closed book and closed notes exam. It is to be turned in by 1:45 PM.

Communication with anyone other than the instructor is not allowed during the exam. Furthermore, calculators, cell phones, and any other electronic or communication devices may not be used during this exam. Anyone needing a break during the exam must leave their exam with the instructor. Cell phones or computers may not be used during breaks.

*This exam is a second chance at the MIPS32 programming questions of Exam 2. Your grade on Problems 10 to 12, will be computed as:*

$$\text{max}(\text{originalGradeOn10to12} + 0.5, 0.6 * \text{redoGradeOn10to12})$$

Name: \_\_\_\_\_

**Problem 10 (5 points)**

Implement the following function in MIPS32 assembly language.

```
int problem10(int i) {  
    int x = (i & 0xFF) + 107;  
    return x;  
}
```

Fill in the blank lines with your solution.

```
                .global  problem10  
                .ent     problem10  
                .text  
problem10:  
# Argument i:   $a0  
# Return value: $v0
```

.....  
.....  
.....  
.....

```
                jr      $ra  
                nop
```

**Problem 11 (5 points)**

Implement the following function in MIPS32 assembly language.

```
void problem11(int V[], int i) {  
    V[i+3] = 5;  
}
```

Fill in the blank lines with your solution.

```
                .global  problem11  
                .ent     problem11  
                .text  
problem11:  
#  Argument V:    $a0  
#  Argument i:   $a1  
#  No return value
```

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```
                jr      $ra  
                nop
```

