ECE/CS314 Fall 2003: Homework 1

Due: submit online to CMS on or before 9/9/03.

1. (similar to problem 3.1 in text):

Add comments to the following MIPS code and describe in one sentence what it computes. Assume $a0$ is used for the input and initially contains $n$, a positive integer. Assume $v0$ is used for the output.

```
begin:    addi   $t0,$zero,1
          addi   $v0,$zero,0
loop:     slt    $t1,$t0,$a0
          beq    $t1,$zero,finish
          add    $t0,$t0,$t0
          addi   $v0,$v0,1
          j      loop
finish:   add    $t0,$t0,$zero
```

2-5. Text problems 3.2, 3.6, 3.9 and 3.10.