Assignment 2

CS270 Fall 2014

Due October 17, 2014 at 11:59pm

Binary Number Conversion

You will write a MIPS program to convert a decimal number into a 32 bit binary number. Your program will read the decimal number from the user via the syscall service for reading an integer. Then, your program will convert the number from decimal to binary and display the result. It may be helpful to use an array to store powers of 2, or an array to store the values of the bits. Finally, the program will display the output to the user. You can assume that all inputs will be a positive integer less than 2^{31}.

Submission Details

You will submit the assembly code in a file named `binary-converter.asm` and submit it to the Assignment 2 dropbox on D2L. Homework is an individual activity. Inappropriate collaboration will be penalized.

Grading Guidelines

You will be graded on the functionality of the program and adherence to the directions. You must also follow the style guidelines presented in class. You may only use instructions presented in class.