Introduction to Computing System

Experiment 1

Note: You MUST do the programming assignment by yourself. You are permitted to get help ONLY from the TAs and instructors. The file you submit should be a machine language file called **ones.bin**.

Simple Program

Overview

Write a program in machine language that counts the number of "ones" in location x3050 and stores the result in location x3051.　Your program should start with the first instruction in x3000.　Your program should terminate with the Halt instruction, which is a trap to the operating system. The instruction is: 1111000000100101.

Your job

Specify the value in x3050 manually.

Write a program in machine language that will

1.　Read the value from x3050
2.　Count the number of "ones"
3.　Write the number to x3051
4.　Halt the machine

Note:

1. Your program must start at location x3000.
2. You can refer to the example 4 of chapter 6.

Submit your Program

The program you are to submit is the **.bin** which should have name as "ones.bin". You SHOULD write a report for your program to briefly describe how to use your program and your idea. Then, put the two file in a folder and make a package named "11603391XXXX_exp1.rar/zip".

Submit your compressed file to the website: http://xzc.cn/OlMy8aEZRa