

HW 4

(Due Date 10/28/2016)

Readings: Assembly Notes, Learning Activity, and Textbook (Sections 2.1 to 2.8)**Problem 1 (Textbook Sections 2.2, 2.3) [10 pts]**

- a) Textbook 2.8, page 176
- b) Textbook 2.9, page 178

Problem 2 (Textbook Sections 2.2, 2.5) [10 pts]

Textbook 2.10, page 177

Problem 3 (textbook section 2.4) [5 pts]

Textbook 2.12 page 177

Assume that X0 holds the value 1268

- a) For the instruction ADD X9, X0, X1, what is the range(s) of values for X1 that would result in overflow
- b) For the instruction SUB X9, X0, X1, what is the range(s) of values for X1 that would result in overflow

Problem 3 (Textbook Section 2.5) [5 pts]

Textbook 2.16, page 178

Problem 4 (Textbook Section 2.5) [10 pts]

Textbook 2.25, 2.25.1, and 2.25.2 page 180

Problem 4 (Textbook Section 2.8) [10 pts]

Textbook 2.30, page 181.

Hint: Going through the example of your textbook pages 104-105 can be useful.

Initialization

```
1. $git init
2. $git config --global user.name "Your gitub id"
3. $git config --global user.email "Your email"
```

Cloning the folder

```
1. $ git clone git@github.com:Lewisu-cpsc30000/hw2-git hw4
```

Submission

Initially hw4.txt should be pulled from <https://github.com/Lewisu-cpsc30000/hw4-git> repository. You must submit the updated version of hw4.txt to the <https://github.com/Lewisu-cpsc30000/hw4-git> repository. To do so, follow these instructions after you have opened Linux:

```
2. $ cd hw4
3. $ git add hw4.txt
4. $ git commit -m "Homework 4 submission"
5. $ git tag -f "hw4" # The tag MUST be "hw4". Failure to
do so will result in loss of credit.
6. $ git push origin master --tags # Note the "--tags" at the end. This
pushes tags to github
```

Using tags allows the course instructor to determine which commit represents your hw3 submission, even if you make later commits to your repository.