SWE 514 Computer Systems

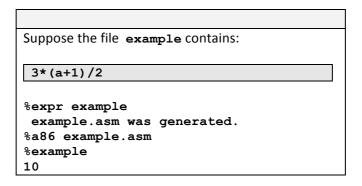
Project (due Dec. 18)

(This project can be implemented in groups of at most two students.)

(Use C/C++ language to implement the project)

In this project, you will implement a program (called expr) that generates A86 code for a calculating the value of a hexadecimal expression that uses +, *, / operations and parantheses. Expressions will be infix expressions. The division operation / is integer division (i.e. ignore the remainder).

You can assume all values and results of operations will fit into 16 bits. An example of **expr** usage is given below:



Please note the following:

- You can assume all numbers are non-negative integers.
- All values are written in hexadecimal format. Output should be in hexadecimal format.
- You can have paranthesized expressions.

Grading

Your project will be graded according to the following criteria:

Documentation (written document describing	12%
how you implemented your project)	
Comments in your code	8%
Implementation and tests	80%