Due: January 14

There are 30 total points. 70+% correctness (21+ points) is needed to pass. Remember that you must pass all assignments to pass the class. The assignment is due at the beginning of class.

This document is available at http://stanford.edu/~danfrank/cme193/homeworks/hw-1.pdf and on Coursework. The starter code is available at http://stanford.edu/~danfrank/cme193/homeworks/hw-1.py.

Overview and grading

In this assignment, you are provided with three python files, and you are asked to implement functions in these files. The functions are designed to give you practice with control flow and basic arithmetic in Python. You will have to edit the Python files using a text editor. You are welcome to use an integrated development environment (IDE), for example, IPython or Eclipse with the PyDev add-on.

See the course website for submission and grading.

1. Preliminaries

Make sure that you understand the concepts from Homework 0. (0 points).

2. Arithmetic

Implement the functions arith2(), arith3(), and arith4() in the first section of hw-1.py. As an example, the function arith1() has already been implemented for you. (14 points).

3. Strings

Implement the functions str2(), str3(), and str4() in the file strings section of hw-1.py. As an example, the function str1() has already been implemented for you. Hint: the len() function may be useful for implementing str4(). See: http://docs.python.org/2/library/functions.html#len. (8 points).

4. Simple math functions

Implement the functions seq_add() and fact(). You are not allowed to use the Python math library. (8 points).