

CS 6515: Homework 4

Due on Sunday, September 24, 11:59pm via Gradescope.
Late submission with 10% penalty until Monday, September 25, 11:59pm.

Professor Brito

CS 6515 – SM

Instructions.

For the graded problems, when asked to design an algorithm you must describe it in plain English. Do not use pseudocode! Always address the runtime of your design. You should aim for the fastest (in big- O notation).

Suggested reading.

From Algorithms by Dasgupta, Papadimitriou, and Vazirani, chapters 7.1 and 7.4.

Problem 1

LP Formulations.

Problem 2

Market factors.

(a)

(b)