CSCI 338: Quiz 3 (due: Friday, March 19, 8:00pm)

Your Name:

This is an open-book quiz (not an attendance counting), so you should try your best. After you finish, upload a pdf file on D2L under Quiz-2. A solution will be posted on D2L after the deadline.

Problem 1

Based on the reduction from Sorting to 2D Convex Hull that was covered on March 15, suppose that the input for Sorting are gicen as $x_1 = 4, x_2 = -3, x_3 = 1, x_4 = 0, x_5 = 3, x_6 = -4, x_7 = -2$.

(1) List the points constructed for the 2D Convex Hull problem. (You must list the coordinates of the points.)

(2) Briefly show how the sorted points x_i's are obtained once the 2D convex hull is given.