# PART ONE:

Declare and store file containing values for matrices D and E

Declare two variables to hold both matrices

Read-in values for matrices D and E line-by-line

Parse the first three lines as matrix D

Parse the next three lines as matrix E

Convert the lists of values into arrays (matrices)

Declare a variable to hold a (3x3) identity matrix

Calculate the inverse matrix (matrix I - matrix D)

Perform the dot product on the inverse matrix and matrix E

Store result in new variable, matrix X

Round all elements of matrix X to the nearest tenth

Display matrix X to user

# PART TWO:

Declare and store file containing given data points

Declare a variable to hold pairs (x, y)

Read-in data points line-by-line

Parse the pairs to a tuple of floats

Convert tuple of floats into array (matrix)

Calculate the coefficients of the least square regression line

Calculate regression line using the given linear function and coefficients

Calculate the linear equation to the user

Print the linear equation

Plot the given data points and regression line