<u>Empirical Homework 1</u>

To receive full credit you must include your STATA output!

C1.2 (ie Chaper 1 Problem C2 using bwght.dta)
For the same dataset (bwght.dta), also answer the following questions:

> (vi)   The variable *bwght* gives the birthweight of the baby (in ounces). What is the difference in average birthweight between smoking mothers and non-smoking mothers?

> (vii)   Which of the following variables has the highest correlation (in magnitude) with *bwght*: family income, mother's education, or number of cigarettes smoked per day? Do the signs of the correlations make sense?

> (viii)   If birthweight is measured in pounds rather than ounces (*bwghtlbs* in the data), how would your answer from (vi) change? how would the correlation values in (vii) change? how would the *covariances* of the various variables in (vii) with *bwght* change? (You should be able to answer these without doing it in Stata.)

C1.4 (using jtrain2.dta)