Problem C2:

```
. regress price sqrft bdrms

      Source |       SS       df       MS              Number of obs =      88
-------------+------------------------------           F(  2,    85) =   72.96
       Model |  580009.152     2  290004.576           Prob > F      =  0.0000
    Residual |  337845.354    85  3974.65122           R-squared     =  0.6319
-------------+------------------------------           Adj R-squared =  0.6233
       Total |  917854.506    87  10550.0518           Root MSE      =  63.045

------------------------------------------------------------------------------
       price |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       sqrft |   .1284362   .0138245     9.29   0.000     .1009495    .1559229
       bdrms |   15.19819   9.483517     1.60   0.113    -3.657582    34.05396
       _cons |    -19.315   31.04662    -0.62   0.536    -81.04399      42.414
------------------------------------------------------------------------------
```

Problem C6

i) reg IQ educ

```
      Source |       SS       df       MS              Number of obs =     935
-------------+------------------------------           F(  1,   933) =  338.02
       Model |  56280.9277     1  56280.9277           Prob > F      =  0.0000
    Residual |  155346.531   933  166.502177           R-squared     =  0.2659
-------------+------------------------------           Adj R-squared =  0.2652
       Total |  211627.459   934  226.581862           Root MSE      =  12.904

------------------------------------------------------------------------------
          IQ |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
        educ |   3.533829   .1922095    18.39   0.000     3.156616    3.911042
       _cons |   53.68715   2.622933    20.47   0.000     48.53962    58.83469
------------------------------------------------------------------------------
```

ii) reg lwage educ

```
      Source |       SS       df       MS              Number of obs =     935
-------------+------------------------------           F(  1,   933) =  100.70
       Model |  16.1377074     1  16.1377074           Prob > F      =  0.0000
    Residual |  149.518587   933   .16025572           R-squared     =  0.0974
-------------+------------------------------           Adj R-squared =  0.0964
       Total |  165.656294   934  .177362199           Root MSE      =  .40032

------------------------------------------------------------------------------
       lwage |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
        educ |   .0598392   .0059631    10.03   0.000     .0481366    .0715418
       _cons |   5.973062   .0813737    73.40   0.000     5.813366    6.132759
------------------------------------------------------------------------------
```

iii) reg lwage educ IQ

```
      Source |       SS       df       MS              Number of obs =     935
-------------+------------------------------           F(  2,   932) =   69.42
       Model |  21.4779495     2  10.7389748           Prob > F      =  0.0000
    Residual |  144.178345   932  .154697795           R-squared     =  0.1297
-------------+------------------------------           Adj R-squared =  0.1278
       Total |  165.656294   934  .177362199           Root MSE      =  .39332

------------------------------------------------------------------------------
       lwage |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
        educ |   .0391199   .0068382     5.72   0.000     .0256998      .05254
          IQ |   .0058631   .0009979     5.88   0.000     .0039047    .0078215
       _cons |   5.658288   .0962408    58.79   0.000     5.469414    5.847161
------------------------------------------------------------------------------
```