```
 1 .
 2 . clear

 3 . set more off

 4 . cd "C:\Users\wonja\Documents\GitHub\14.320\PS3"
   C:\Users\wonja\Documents\GitHub\14.320\PS3

 5 . use NHIS2009_clean

 6 .
 7 . * Problem 3.(a)
 8 .
 9 . * select non-missings
10 .         keep if marradult==1 & perweight!=0
   (50,662 observations deleted)

11 .                 by serial: egen hi_hsb = mean(hi_hsb1)
   (207 missing values generated)

12 .                         keep if hi_hsb!=. & hi!=.
   (207 observations deleted)

13 .                 by serial: egen female = total(fml)

14 .                         keep if female==1
   (31 observations deleted)

15 .                         drop female

16 .
17 . * Josh's sample selection criteria
18 .         gen angrist = ( age>=26 & age<=59 & marradult==1 & adltempl>=1 )

19 .                 keep if angrist==1
   (9,613 observations deleted)

20 .         // drop single-person HHs
21 .         by serial: gen n = _N

22 .                 keep if n>1
   (1,331 observations deleted)

23 .
24 . eststo: reg health uninsured if sex == 1
```

Source	SS	df	MS		
Model	**98.7315707**	**1**	**98.7315707**	Number of obs	= **9,395**
Residual	**8423.39786**	**9,393**	**.896773966**	F(1, 9393)	= **110.10**
				Prob > F	= **0.0000**
				R-squared	= **0.0116**
				Adj R-squared	= **0.0115**
Total	**8522.12943**	**9,394**	**.90718857**	Root MSE	= **.94698**

health	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
uninsured	**-.2777127**	**.0264673**	**-10.49**	**0.000**	**-.3295943**	**-.2258311**
_cons	**2.578563**	**.0495989**	**51.99**	**0.000**	**2.481338**	**2.675787**

(**est1** stored)

```
25 . esttab using PS3-3a.tex, replace compress cells("b(label(coef) fmt(a3) star)
   > ci(par fmt(a3))" t(par fmt(a3))) label varlabels(uninsured "Covered by insura
   > nce" _cons "Constant") nonumber stats(N, fmt(%9.0gc) label(Observations)) add
   > note("t statistics in parentheses" "@starlegend")
   (output written to PS3-3a.tex)

26 . eststo clear

27 .
28 . * Problem 3.(b)
29 .
30 . eststo: reg health uninsured age if sex == 1

      Source |       SS           df       MS      Number of obs   =     9,395
-------------+----------------------------------   F(2, 9392)      =    199.59
       Model |  347.434273         2  173.717137   Prob > F        =    0.0000
    Residual |  8174.69516     9,392  .870389178   R-squared       =    0.0408
-------------+----------------------------------   Adj R-squared   =    0.0406
       Total |  8522.12943     9,394   .90718857   Root MSE        =    .93295

------------------------------------------------------------------------------
      health |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
   uninsured |  -.3326014   .0262764   -12.66   0.000    -.3841089    -.281094
         age |   .0189746   .0011225    16.90   0.000     .0167743     .021175
       _cons |   1.850366   .0651419    28.41   0.000     1.722674    1.978058
------------------------------------------------------------------------------
   (est1 stored)

31 . eststo: reg health uninsured age yedu if sex == 1

      Source |       SS           df       MS      Number of obs   =     9,395
-------------+----------------------------------   F(3, 9391)      =    287.14
       Model |  716.032755         3  238.677585   Prob > F        =    0.0000
    Residual |  7806.09668     9,391  .831231677   R-squared       =    0.0840
-------------+----------------------------------   Adj R-squared   =    0.0837
       Total |  8522.12943     9,394   .90718857   Root MSE        =    .91172

------------------------------------------------------------------------------
      health |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
   uninsured |  -.1265868   .0274791    -4.61   0.000    -.1804517   -.0727219
         age |   .0185387   .0010972    16.90   0.000      .016388    .0206894
        yedu |  -.0701384   .0033307   -21.06   0.000    -.0766674   -.0636095
       _cons |   2.448775   .0697144    35.13   0.000      2.31212     2.58543
------------------------------------------------------------------------------
   (est2 stored)

32 . eststo: reg health uninsured age yedu inc if sex == 1

      Source |       SS           df       MS      Number of obs   =     9,395
-------------+----------------------------------   F(4, 9390)      =    286.00
       Model |  925.505667         4  231.376417   Prob > F        =    0.0000
    Residual |  7596.62376     9,390  .809012115   R-squared       =    0.1086
-------------+----------------------------------   Adj R-squared   =    0.1082
       Total |  8522.12943     9,394   .90718857   Root MSE        =    .89945

------------------------------------------------------------------------------
      health |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
   uninsured |    -.00728    .028105    -0.26   0.796    -.0623718    .0478118
         age |   .0204035   .0010886    18.74   0.000     .0182696    .0225373
        yedu |  -.0487491   .0035446   -13.75   0.000    -.0556973   -.0418009
         inc |  -3.10e-06   1.93e-07   -16.09   0.000    -3.48e-06   -2.72e-06
       _cons |   2.147955   .0712719    30.14   0.000     2.008247    2.287664
------------------------------------------------------------------------------
   (est3 stored)
```

```
33 . esttab using PS3-3b.tex, replace compress cells(b(label(coef) fmt(a3) star) t
   > (par fmt(a3))) label varlabels(uninsured "Covered by insurance" yedu "Years o
   > f education" inc "Income" _cons "Constant") nonumber stats(N, fmt(%9.0gc) lab
   > el(Observations)) addnote("t statistics in parentheses" "@starlegend")
   (output written to PS3-3b.tex)

34 . eststo clear

35 .
36 . log close
         name:  <unnamed>
          log:  C:\Users\wonja\Documents\GitHub\14.320\PS3\PS3-3.smcl
     log type:  smcl
    closed on:  28 Mar 2021, 18:49:02
```