```
                                                              _____(R)
                                                             /__    /   ____/   /   ____/
                                                            ___/   /   /___/   /   /___/
                                                              /   /   /___/   /   /___/
                                                             Statistics/Data Analysis

                                                               User: Mark R. Beissinger
                                                               Project: The Revolutionary City
      ---------------------------------------------------------------------------------------------------
            name:  <unnamed>
             log:  C:\Users\mbeissin\Desktop\Stata files for book\Robustnesstestfiles\Logfiles\robustnesstestschapter6.l
      > og
        log type:  text
       opened on:  26 Jan 2022, 13:50:44

      1 . * ==============================================================================
      2 . * ROBUSTNESS CHECKS FOR STATISTICAL RESULTS APPEARING IN CHAPTER 6
      3 . * STATA
      4 . * Robustness checks for results reported in Chapter 6
      5 . * Author: Mark R. Beissinger
      6 . * Date:  January 2022
      7 . * Princeton, NJ
      8 . * ==============================================================================
      9 . * BEFORE RUNNING, YOU MUST SET THE DEFAULT PATH FOR WHERE THE DATA
     10 . *    FILES RESIDE
     11 . * ==============================================================================
     12 . * The following datafile is used in these tests:
     13 . *    Data set of urban civic revolt locations--urbancivicspaces.dta
     14 . * ==============================================================================
     15 .
     16 . use urbancivicspaces.dta

     17 .
     18 . * ==============================================================================
     19 . * PROBABILITY OF OPPOSITION VICTORY IF WITHIN 3/4 KILOMETER OF SEAT OF GOVT
     20 . * ==============================================================================
     21 . * Alternative tests given small sample size
     22 . logit success veryclose lnpartic, or nolog

        Logistic regression                             Number of obs    =        54
                                                        LR chi2(2)       =     11.67
                                                        Prob > chi2      =    0.0029
        Log likelihood = -29.757033                     Pseudo R2        =    0.1640

        ------------------------------------------------------------------------------
            success | Odds Ratio   Std. Err.      z    P>|z|     [95% Conf. Interval]
        ------------+-----------------------------------------------------------------
          veryclose |   4.529672   3.080137     2.22   0.026     1.194695    17.17419
           lnpartic |   1.916882   .4943577     2.52   0.012     1.156307    3.177734
              _cons |   .0003579   .0011398    -2.49   0.013     6.96e-07    .1840147
        ------------------------------------------------------------------------------

     23 . firthlogit success veryclose lnpartic, or nolog

                                                        Number of obs    =        54
                                                        Wald chi2(2)     =      8.68
        Penalized log likelihood = -26.80228            Prob > chi2      =    0.0130

        ------------------------------------------------------------------------------
            success | Odds Ratio   Std. Err.      z    P>|z|     [95% Conf. Interval]
        ------------+-----------------------------------------------------------------
          veryclose |   4.077637    2.65281     2.16   0.031     1.139299    14.59417
           lnpartic |   1.817348   .4442589     2.44   0.015     1.125533    2.934393
               cons |   .0006845   .0020687    -2.41   0.016     1.83e-06    .2558234
        ------------------------------------------------------------------------------

     24 . regress success veryclose lnpartic

              Source |       SS           df       MS      Number of obs   =        54
        -------------+----------------------------------   F(2, 51)        =      6.43
               Model |  2.53584635         2  1.26792318   Prob > F        =    0.0032
            Residual |  10.0567462        51  .197191103   R-squared       =    0.2014
        -------------+----------------------------------   Adj R-squared   =    0.1701
               Total |  12.5925926        53  .237596087   Root MSE        =    .44406

        ------------------------------------------------------------------------------
            success |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
        ------------+-----------------------------------------------------------------
          veryclose |   .2991747   .1227453     2.44   0.018     .0527532    .5455963
           lnpartic |   .1310904   .0460463     2.85   0.006     .0386486    .2235322
               cons |  -1.099527   .5730855    -1.92   0.061    -2.250044    .0509906
        ------------------------------------------------------------------------------

     25 . * RESULT: All results remain the same
     26 .
     27 . * ++++++++++++++++++++++++++++++++++++++++++++++++
     28 . * Bootstrapped standard errors with bias correction
     29 . * ++++++++++++++++++++++++++++++++++++++++++++++++
     30 . logit success veryclose lnpartic, vce(bootstrap, seed(1234) rep(1000)) or nolog
        (running logit on estimation sample)

        Bootstrap replications (1000)
        ----+--- 1 ---+--- 2 ---+--- 3 ---+--- 4 ---+--- 5
        ..................................................    50
        ..................................................   100
        ..................................................   150
        ..................................................   200
        ...........................x......................   250
        ..................................................   300
        ..................................................   350
        ...............................x..................   400
        ..................................................   450
        ..................................................   500
        ..................................................   550
        ..................................................   600
        ..................................................   650
        ..................................................   700
        ..................................................   750
        ..................................................   800
```

```
.................................x.................    850
..............................................    900
..............................................    950
..............................................   1000
```

Logistic regression

Number of obs	= 54
Replications	= 997
Wald chi2(2)	= 7.55
Prob > chi2	= 0.0229
Pseudo R2	= 0.1640

Log likelihood = -29.757033

	Observed	Bootstrap			Normal-based	
success	Odds Ratio	Std. Err.	z	P>|z|	[95% Conf. Interval]	
veryclose	4.529672	3.219145	2.13	0.034	1.124955	18.23888
lnpartic	1.916882	.6593704	1.89	0.059	.9767838	3.76177
_cons	.0003579	.0014868	-1.91	0.056	1.04e-07	1.230874

Note: One or more parameters could not be estimated in 3 bootstrap replicates;
      standard-error estimates include only complete replications.

31 . estat bootstrap, all eform

Logistic regression

Number of obs	= 54
Replications	= 997

	Observed		Bootstrap			
success	exp(b)	Bias	Std. Err.	[95% Conf. Interval]		
veryclose	4.529672	.6227336	3.2191447	1.124955	18.23888	(N)
				1.423262	23.97138	(P)
				1.251198	18.93823	(BC)
lnpartic	1.9168819	.128514	.65937038	.9767838	3.76177	(N)
				1.16891	4.584987	(P)
				1.10618	3.875456	(BC)

(N)   normal confidence interval
(P)   percentile confidence interval
(BC)   bias-corrected confidence interval
Note: One or more parameters could not be estimated in 3 bootstrap replicates;
      standard-error estimates include only complete replications.

```
32 . * RESULT: distance variable remains statistically significant, irrespective
33 . *      of participation levels; participation turn marginally significant
34 .
35 . log close
       name:  <unnamed>
        log:  C:\Users\mbeissin\Desktop\Stata files for book\Robustnesstestfiles\Logfiles\robustnesstestschapter6.l
   > og
   log type:  text
   closed on:  26 Jan 2022, 13:51:00
   ----------------------------------------------------------------------------------------------------------------
```