

```

. clear

.
. /*
>   Back to Fan's Stata4Econ or other repositories:
>   - http://fanwangecon.github.io
>   - http://fanwangecon.github.io/Stata4Econ
>   - http://fanwangecon.github.io/R4Econ
>   - http://fanwangecon.github.io/M4Econ
>   - http://fanwangecon.github.io/CodeDynaAsset/
>   - http://fanwangecon.github.io/Math4Econ/
>   - http://fanwangecon.github.io/Stat4Econ/
>   - http://fanwangecon.github.io/Tex4Econ
>
>   1. given a discrete variable
>   2. recode the discrete variable to reduce the number of categories, generate larger category
> */
.
. ///--- Start log
> set more off

. capture log close _all

. cd "${root_log}"
C:\Users\fan\Documents\Dropbox (UH-ECON)\Project Emily Minority Survey\CodeEdccRR\EnrollAge

. global st_link "/gen/replace/fs_recode"

. global curlogfile "~/Stata4Econ/${st_link}"

. global st_logname "stata_recode_discrete_subset"

. log using "${curlogfile}" , replace name($st_logname)
(note: file C:\Users\fan\Stata4Econ//gen/replace/fs_recode.smcl not found)

name:   stata_recode_discrete_subset
log:    C:\Users\fan\Stata4Econ//gen/replace/fs_recode.smcl
log type: smcl
opened on: 9 Oct 2019, 08:09:41

. log on $st_logname
(log already on)

.
. ///-- Site Link: Fan's Project Reusable Stata Codes Table of Content
> di "https://fanwangecon.github.io/"
https://fanwangecon.github.io/

. di "https://fanwangecon.github.io/Stata4Econ/"
https://fanwangecon.github.io/Stata4Econ/

.
. ///-- File Title
> global filetitle "Stata Recode a Discrete Variable with Alternative Labels and Values Subgroups"

.
. ///--- Load Data
> set more off

. sysuse auto, clear
(1978 Automobile Data)

.
. ///--- Recode Method 1
>   capture drop turn_m5

.   recode turn ///
>   (min/35 = 1 "Turn <35") ///
>   (36 = 2 "Turn = 36") ///
>   (37 = 3 "Turn = 37") ///
>   (38/45 = 4 "Turn 38 to 45") ///
>   (46/max = 5 "Turn > 45") ///
>   (else =. ) ///
>   , gen(turn_m5)
(74 differences between turn and turn_m5)

```

```
. ///-- Recode Method 2
> clonevar turn_m5_alt = turn

. label variable turn_m5_alt "Recode using inlist and inrange"

. replace turn_m5_alt = 1 if inrange(turn, 31, 35)
(16 real changes made)

. replace turn_m5_alt = 2 if inlist(turn, 36)
(9 real changes made)

. replace turn_m5_alt = 3 if inlist(turn, 37)
(4 real changes made)

. replace turn_m5_alt = 4 if inrange(turn, 38, 45)
(39 real changes made)

. replace turn_m5_alt = 5 if inlist(turn, 46, 48, 51)
(6 real changes made)

. label define turn_m5_alt 1 "Turn <35" 2 "Turn = 36" 3 "Turn = 37" 4 "Turn 38 to 45" 5 "
. label values turn_m5_alt turn_m5_alt

.
. ///--- Summarize
> codebook turn*
```

turn					
type: numeric (int)					
range: [31,51]		units: 1			
unique values: 18			missing .: 0/74		
mean: 39.6486					
std. dev: 4.39935					
percentiles:	10%	25%	50%	75%	90%
	34	36	40	43	45

turn_m5				RECODE
type: numeric (int)				
label: turn_m5				
range: [1,5]		units: 1		
unique values: 5		missing .: 0/74		
tabulation:	Freq.	Numeric	Label	
	16	1	Turn <35	
	9	2	Turn = 36	
	4	3	Turn = 37	
	39	4	Turn 38 to 45	
	6	5	Turn > 45	

turn_m5_alt				Reco
type: numeric (int)				
label: turn_m5_alt				
range: [1,5]		units: 1		
unique values: 5		missing .: 0/74		
tabulation:	Freq.	Numeric	Label	
	16	1	Turn <35	
	9	2	Turn = 36	
	4	3	Turn = 37	
	39	4	Turn 38 to 45	
	6	5	Turn > 45	

```
. tab turn_m5
```

RECODE of turn (Turn Circle (ft.))	Freq.	Percent	Cum.
Turn <35	16	21.62	21.62
Turn = 36	9	12.16	33.78
Turn = 37	4	5.41	39.19
Turn 38 to 45	39	52.70	91.89
Turn > 45	6	8.11	100.00
Total	74	100.00	

```
. tab turn turn_m5
```

Turn Circle (ft.)	RECODE of turn (Turn Circle (ft.))					Total
	Turn <35	Turn = 36	Turn = 37	Turn 38 t	Turn > 45	
31	1	0	0	0	0	1
32	1	0	0	0	0	1
33	2	0	0	0	0	2
34	6	0	0	0	0	6
35	6	0	0	0	0	6
36	0	9	0	0	0	9
37	0	0	4	0	0	4
38	0	0	0	3	0	3
39	0	0	0	1	0	1
40	0	0	0	6	0	6
41	0	0	0	4	0	4
42	0	0	0	7	0	7
43	0	0	0	12	0	12
44	0	0	0	3	0	3
45	0	0	0	3	0	3
46	0	0	0	0	3	3
48	0	0	0	0	2	2
51	0	0	0	0	1	1
Total	16	9	4	39	6	74

```
. tab turn_m5 turn_m5_alt
```

RECODE of turn (Turn Circle (ft.))	Recode using inlist and inrange					Total
	Turn <35	Turn = 36	Turn = 37	Turn 38 t	Turn > 45	
Turn <35	16	0	0	0	0	16
Turn = 36	0	9	0	0	0	9
Turn = 37	0	0	4	0	0	4
Turn 38 to 45	0	0	0	39	0	39
Turn > 45	0	0	0	0	6	6
Total	16	9	4	39	6	74

```
.
.
. ///--- End Log and to HTML
> log close _all
   name: stata_recode_discrete_subset
   log: C:\Users\fan\Stata4Econ\gen\replace\fs_recode.smcl
  log type: smcl
closed on: 9 Oct 2019, 08:09:41
```

```
. capture noisily {  
.   log2html "${curlogfile}", replace title($filetitle (<a href="https://github.com/FanWangEcon/S  
> nk).do">DO</a>, more see: <a href="https://fanwangecon.github.io/">Fan</a> and <a href="https://  
> 4Econ">Stata4Econ</a>))
```

HTML log file ~/Stata4Econ//gen/replace/fs_recode.html created

```
. }
```

```
.  
. ///--- to PDF  
> capture noisily {  
.   translator set Results2pdf logo off  
.   translator set Results2pdf fontsize 10  
.   translator set Results2pdf pagesize custom  
.   translator set Results2pdf pagewidth 8.27  
.   translator set Results2pdf pageheight 11.69  
.   translator set Results2pdf lmargin 0.2  
.   translator set Results2pdf rmargin 0.2  
.   translator set Results2pdf tmargin 0.2  
.   translator set Results2pdf bmargin 0.2  
.   translate @Results "${curlogfile}.pdf", replace translator(Results2pdf)
```