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```

      name: <unnamed>
      log: /Users/carsoncrenshaw/Library/CloudStorage/OneDrive-Universityof
> Virginia/RMDA I/RMDA1_Homework4_log.smcl
      log type: smcl
      opened on: 23 Oct 2023, 23:52:35

```

```

1 .
2 .      use "${classpath}fertility.dta", clear

3 .
4 . *****
5 . *      1: Homework Code
6 . *****
7 .
8 . *QUESTION 2
9 .      *AI.
10 .      describe, short

```

```

Contains data from /Users/carsoncrenshaw/Library/CloudStorage/OneDrive-Univer
> sityofVirginia/RMDA I/fertility.dta
Observations:      749
Variables:      80      11 Oct 2022 15:41
Sorted by: respondentid

```

```

11 .
12 .      *AII.
13 .      tab voucher_individual, mi //no missing values

```

voucher was distributed privately to the wife	Freq.	Percent	Cum.
No	371	49.53	49.53
Yes	378	50.47	100.00
Total	749	100.00	

```

14 .
15 .      *BI. // reg baseline characteristic x variable
16 .      reg electric voucher_individual

```

Source	SS	df	MS	Number of obs	=	74
				F(1, 747)	=	0.2
Model	.06914647	1	.06914647	Prob > F	=	0.592
Residual	179.77064	747	.240656814	R-squared	=	0.000
				Adj R-squared	=	-0.001
Total	179.839786	748	.240427522	Root MSE	=	.4905

	Coefficient	Std. err.	t	P> t	[95% conf. in
electric					terval]
voucher_individual	.0192173	.0358515	0.54	0.592	-.0511643
_cons	.3908356	.025469	15.35	0.000	.3408362

```

17 .
18 .      // check if this is correct by running a t-test
19 .      // ttest electric, by(voucher_individual)
20 .

```

```

21 .      *B2II
22 .      reg timesincelastbirth voucher_individual

```

Source	SS	df	MS	Number of obs	=	74
				F(1, 741)	=	0.3
Model	14.065703	1	14.065703	Prob > F	=	0.536
Residual	27210.5184	741	36.7213474	R-squared	=	0.000
				Adj R-squared	=	-0.000
Total	27224.5841	742	36.6908142	Root MSE	=	6.059

	Coefficient	Std. err.	t	P> t	[95% conf. in	
timesincelastbirth					terval]	
voucher_individual	.2752098	.4446748	0.62	0.536	-.5977626	1
_cons	15.29508	.3167516	48.29	0.000	14.67324	1

```

23 .
24 .      *CI. // reg Y(outcome of treatment) X
25 .      reg used_voucher voucher_individual

```

Source	SS	df	MS	Number of obs	=	74
				F(1, 747)	=	7.6
Model	1.89220195	1	1.89220195	Prob > F	=	0.005
Residual	185.037037	747	.247706877	R-squared	=	0.010
				Adj R-squared	=	0.008
Total	186.929239	748	.2499054	Root MSE	=	.497

> _____						
used_voucher	Coefficient	Std. err.	t	P> t	[95% conf. in	
> terval]						
> _____						
voucher_individual	.1005291	.0363728	2.76	0.006	.029124	.
> 1719342						
_cons	.4285714	.0258394	16.59	0.000	.377845	.
> 4792979						
> _____						

26 .  
27 . \*CII.  
28 . reg used\_injectable voucher\_individual

> 9	Source	SS	df	MS	Number of obs	=	74
> 4					F(1, 747)	=	4.0
> 9	Model	.676241044	1	.676241044	Prob > F	=	0.044
> 4	Residual	125.144854	747	.167529925	R-squared	=	0.005
> 0					Adj R-squared	=	0.004
> 3	Total	125.821095	748	.16821002	Root MSE	=	.409

> _____						
used_injectable	Coefficient	Std. err.	t	P> t	[95% conf. in	
> terval]						
> _____						
voucher_individual	.0600978	.0299126	2.01	0.045	.0013751	.
> 1188206						
_cons	.1832884	.02125	8.63	0.000	.1415716	.
> 2250053						
> _____						

```

29 .
30 .      *CIII.
31 .      reg birth_year1 voucher_individual

```

Source	SS	df	MS	Number of obs	=	74
				F(1, 747)	=	2.4
Model	.145771348	1	.145771348	Prob > F	=	0.119
Residual	44.7781272	747	.059943945	R-squared	=	0.003
				Adj R-squared	=	0.001
Total	44.9238985	748	.060058688	Root MSE	=	.2448

	Coefficient	Std. err.	t	P> t	[95% conf. in	
birth_year1					terval]	
voucher_individual	-.0279026	.0178929	-1.56	0.119	-.0630289	.
_cons	.0781671	.0127112	6.15	0.000	.0532132	

```

32 .
33 . *****
34 . *      2: Close log file
35 . *****
36 .
37 .      log close
      name: <unnamed>
      log: /Users/carsoncrenshaw/Library/CloudStorage/OneDrive-Universityof
> Virginia/RMDA I/RMDA1_Homework4_log.smcl
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