



name: <unnamed>

log: C:\Users\Baha\OneDrive\Desktop\Stata\Lof files\Regression.smcl smcl opened on: 29 Nov 2023, 21:57:06

1 . summarize, detail

70	4	
А	- 1	

1% 5% 10% 25%	Percentiles 48 57.8 70.4 91.7	Smallest 47.2 48.8 54 54.2	Obs Sum of Wgt.	100 100
50%	106.2	Largest	Mean Std. Dev.	107.75 27.85768
75% 90% 95% 99%	125.2 145.6 153.2 184.6	162.2 163.6 184.2 185	Variance Skewness Kurtosis	776.0504 .2283053 3.223777
		A2		
1% 5% 10% 25%	Percentiles 25 31 35 42.5	Smallest 22 28 29 30	Obs Sum of Wgt.	100 100
50%	50.5	Largest	Mean Std. Dev.	52.44 14.0528
75% 90% 95% 99%	62 70 76.5 92.5	82 82 86 99	Variance Skewness Kurtosis	197.4812 .5000753 3.277941
		A3		
1% 5% 10% 25%	Percentiles 3.58 3.85 3.9 4.19	Smallest 3.58 3.58 3.74 3.83	Obs Sum of Wgt.	100 100
50%	4.49	Largest	Mean Std. Dev.	4.5226 .4711637
75% 90% 95% 99%	4.855 5.11 5.3 5.84	5.38 5.43 5.57 6.11	Variance Skewness Kurtosis	.2219952 .407158 3.178499
		A4		
1% 5% 10% 25%	Percentiles 29.985 30.7 31.05 31.7	Smallest 29.53 30.44 30.54 30.54	Obs Sum of Wgt.	100 100
50%	32.3		Mean	32.257
75% 90% 95% 99%	32.85 33.29 33.805 34.465	Largest 33.84 33.91 34.16 34.77	Std. Dev. Variance Skewness Kurtosis	.8970732 .8047404 1744164 3.367012

2 . summarize, detail

100 100	Obs Sum of Wgt.	Smallest 47.2 48.8 54 54.2	Percentiles 48 57.8 70.4 91.7	1% 5% 10% 25%
107.75 27.85768	Mean Std. Dev.	Largest	106.2	50%
776.0504 .2283053 3.223777	Variance Skewness Kurtosis	162.2 163.6 184.2 185	125.2 145.6 153.2 184.6	75% 90% 95% 99%
		A2		
100 100	Obs Sum of Wgt.	Smallest 22 28 29 30	Percentiles 25 31 35 42.5	1% 5% 10% 25%
52.44 14.0528	Mean Std. Dev.	Largest	50.5	50%
197.4812 .5000753 3.277941	Variance Skewness Kurtosis	82 82 86 99	62 70 76.5 92.5	75% 90% 95% 99%
		A3		
100 100	Obs Sum of Wgt.	Smallest 3.58 3.58 3.74 3.83	Percentiles 3.58 3.85 3.9 4.19	18 58 108 258
4.5226 .4711637	Mean Std. Dev.	Largest	4.49	50%
.2219952 .407158 3.178499	Variance Skewness Kurtosis	5.38 5.43 5.57 6.11	4.855 5.11 5.3 5.84	75% 90% 95% 99%
		A4		
100 100	Obs Sum of Wgt.	Smallest 29.53 30.44 30.54 30.54	Percentiles 29.985 30.7 31.05 31.7	18 58 108 258
32.257	Mean	T a week at	32.3	50%
.8970732 .8047404 1744164 3.367012	Std. Dev. Variance Skewness Kurtosis	Largest 33.84 33.91 34.16 34.77	32.85 33.29 33.805 34.465	75% 90% 95% 99%

3 . histogram A1, bin(10) normal (bin=10, start=47.2, width=13.78)

4 . regress A1 A2 A3 A4

Source	SS	df	MS			
Model Residual	4417.49752 72411.4925	3 96	1472.49917 754.28638	Prob R-squ	> F = ared =	0.1264 0.0575
Total	76828.99	99	776.050404			
A1	Coef.	Std. Err.	t :	P> t	[95% Conf.	Interval]
A2 A3 A4 _cons	1816692 8.565666 2.891518 -14.73406	.2048578 6.502293 3.302254 102.0254	1.32 0.88	0.191 0.383	5883087 -4.341283 -3.663404 -217.253	.2249702 21.47262 9.446441 187.7849
. regress Al A	A2					
Source	SS	df	MS			
Model Residual	1602.09239 75226.8976	1 98		Prob R-squ	> F = ared =	0.1517 0.0209
Total	76828.99	99	776.050404			
A1	Coef.	Std. Err.	t :	P> t	[95% Conf.	Interval]
A2 _cons	2862617 122.7616	.1981495 10.75399			679483 101.4206	.1069596 144.1025
. regress A1 A	13					
Source	SS	df	MS			
Model Residual	3213.49471 73615.4953	1 98	3213.49471 751.178523	Prob R-squ	> F = ared =	0.0412 0.0418
Total	76828.99	99	776.050404			
A1	Coef.	Std. Err.	t :	P> t	[95% Conf.	Interval]
A3 _cons	12.09204 53.06256	5.846315 26.58221			.4902139 .3110208	23.69386 105.8141
. regress A1 A	A4					
		-1.6	MS			
Source	SS	df			er of obs = 98) =	
Source Model Residual	1898.06542 74930.9246	1 98	1898.06542 764.601271	F(1, Prob R-squ	98) = > F = wared =	2.48 0.1183 0.0247
Model	1898.06542	1	1898.06542	F(1, Prob R-squ Adj F	98) = > F = lared = R-squared =	2.48 0.1183 0.0247 0.0148
Model Residual	1898.06542 74930.9246	1 98	1898.06542 764.601271 776.050404	F(1, Prob R-squ Adj F	98) = > F = aared = R-squared = MSE =	2.48 0.1183 0.0247 0.0148
	Model Residual Total A1 A2 A3 A4 _cons . regress A1 A Source Model Residual Total A1 A2 _cons . regress A1 A A2 _cons . regress A1 A Source Model Residual Total A1 A2 _cons . regress A1 A Source Model Residual Total A1 A3 _cons	Model Residual 4417.49752 72411.4925 Total 76828.99 A1 Coef. A2 A3 8.565666 A4 2.891518 -14.73406 . regress A1 A2 Source SS Model Residual 1602.09239 75226.8976 Total 76828.99 A1 Coef. A22862617 122.7616 . regress A1 A3 Source SS Model Residual 3213.49471 73615.4953 76828.99 A1 Coef. Coef. A3 12.09204 53.06256 - regress A1 A4 . regress A1 A4 - regress A1 A4	Model Residual 4417.49752 72411.4925 3 96 Total 76828.99 99 A1 Coef. Std. Err. A2 1816692 .2048578 8.565666 6.502293 A4 2.891518 3.302254 -14.73406 102.0254 . regress A1 A2 Source SS df Model Passidual 1602.09239 75226.8976 98 1 Total 76828.99 99 A1 Coef. Std. Err. A22862617 .1981495 10.75399 .1981495 10.75399 . regress A1 A3 Source SS df Model Residual 3213.49471 1 1 73615.4953 98 98 Total 76828.99 99 99 A1 Coef. Std. Err. A3 12.09204 5.846315 2cons 53.06256 26.58221 . regress A1 A4 . regress A1 A4	Model Residual 4417.49752 96 754.28638 Total 76828.99 99 776.050404 A1 Coef. Std. Err. t A2 1816692 .2048578 -0.89	Model	Model

8 . regress A4 A1 A2 A3

Source	SS	df	MS	Number of obs	=	100
Model Residual	11.047749 68.621551	_	3.68258301 .714807823	F(3, 96) Prob > F R-squared	= = =	5.15 0.0024 0.1387
 Total	79.6693	99	.804740404	Adj R-squared Root MSE	=	0.1118 .84546

A4	Coef.	Std. Err.	t	P> t	[95% Conf.	Interval]
A1	.0027402	.0031294	0.88	0.383	0034717	.008952
A2	0011633	.006331	-0.18	0.855	0137303	.0114037
A3	.6465829	.190883	3.39	0.001	.2676831	1.025483
_cons	29.09851	1.022982	28.44	0.000	27.06791	31.12912

9 . ttest A4 == 15

One-sample t test

A4	100	32.257	.0897073	.8970732	32.079	32.435
Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf.	Interval]

10. ttest A2 == A4, unpaired unequal welch

Two-sample t test with unequal variances

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf.	<pre>Interval]</pre>
A2 A4	100 100	52.44 32.257	1.40528 .0897073	14.0528 .8970732	49.65162 32.079	55.22838 32.435
combined	200	42.3485	1.002484	14.17727	40.37164	44.32536
diff		20.183	1.40814		17.38923	22.97677

 $\mbox{diff = mean} \ (\textbf{A2}) \ - \ \mbox{mean} \ (\textbf{A4}) \\ \mbox{Ho: diff = 0} \\ \mbox{Welch's degrees of freedom = } \ \ \textbf{99.8231} \\ \mbox{}$

11. ttest A1 == A4, unpaired

Two-sample t test with equal variances

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf.	Interval]
A1 A4	100 100	107.75 32.257	2.785768 .0897073	27.85768 .8970732	102.2224 32.079	113.2776 32.435
combined	200	70.0035	3.015322	42.6431	64.05742	75.94958
diff		75.493	2.787212		69.99657	80.98943

12. ttest A3 == A4

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf.	Interval]
A3 A4	100 100	4.5226 32.257	.0471164 .0897073	.4711637 .8970732	4.429111 32.079	4.616089 32.435
diff	100	-27.7344	.0848876	.848876	-27.90284	-27.56596

mean(diff) = mean(A3 - A4)

t = -3.3e+0299

Ho: mean(diff) = 0

degrees of freedom =

Ha: mean(diff) < 0</pre> Pr(T < t) = 0.0000 Ha: mean(diff) != 0Pr(|T| > |t|) = 0.0000

Ha: mean(diff) > 0Pr(T > t) = 1.0000

13. rvpplot A4, ytitle(residuals) xtitle(predictors)
 A4 is not in the model

<u>r(398);</u>

14. log close

name: <unnamed>

log: C:\Users\Baha\OneDrive\Desktop\Stata\Lof files\Regression.smcl
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log type: smcl

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