

(R)

		Robust				
price	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
t0	0	(omitted)				
t1	-123.464	48.57248	-2.54	0.012	-219.2619	-27.6661
t2	1.844261	1.260313	1.46	0.145	-.6414124	4.329935
t3	-.0059349	.0143809	-0.41	0.680	-.0342979	.022428
t4	-.0000325	.000074	-0.44	0.661	-.0001784	.0001134

t5	1.50e-07	1.40e-07	1.07	0.286	-1.26e-07	4.26e-07
_cons	7617.603	635.8701	11.98	0.000	6363.497	8871.709

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. import excel "C:\Users\lyx\Desktop\2040 proj\Part1_training_data.xlsx", sheet("10") firstrow
clear
```

```
. reg price t0 t1 t2 t3 t4 t5 t6 t7 t8 t9 t10 , robust
note: t0 omitted because of collinearity
```

Linear regression	Number of obs	=	200
	F(4, 189)	=	.
	Prob > F	=	.
	R-squared	=	0.4198
	Root MSE	=	693.77

		Robust					
price	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]		
t0	0	(omitted)					
t1	-261.5371	286.7413	-0.91	0.363	-827.1617	304.0874	
t2	28.81617	32.90402	0.88	0.382	-36.09013	93.72247	
t3	-1.645372	1.674427	-0.98	0.327	-4.948338	1.657594	
t4	.0479473	.0463439	1.03	0.302	-.0434706	.1393651	
t5	-.0007944	.0007696	-1.03	0.303	-.0023125	.0007237	
t6	7.99e-06	8.01e-06	1.00	0.320	-7.81e-06	.0000238	
t7	-4.99e-08	5.27e-08	-0.95	0.345	-1.54e-07	5.41e-08	
t8	1.89e-10	2.13e-10	0.89	0.375	-2.31e-10	6.10e-10	
t9	-4.00e-13	4.82e-13	-0.83	0.408	-1.35e-12	5.52e-13	
t10	3.60e-16	4.69e-16	0.77	0.443	-5.64e-16	1.28e-15	
_cons	7515.6	800.9137	9.38	0.000	5935.722	9095.478	

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. import excel "C:\Users\lyx\Desktop\2040 proj\Part1_training_data.xlsx", sheet("20") firstrow
clear
```

```
. reg price t0 t1 t2 t3 t4 t5 t6 t7 t8 t9 t10 t11 t12 t13 t14 t15 t16 t17 t18 t19 t20 , robust
note: t0 omitted because of collinearity
note: t1 omitted because of collinearity
note: t2 omitted because of collinearity
note: t7 omitted because of collinearity
note: t12 omitted because of collinearity
note: t13 omitted because of collinearity
```

note: t17 omitted because of collinearity

Linear regression	Number of obs	=	200
	F(1, 185)	=	.
	Prob > F	=	.
	R-squared	=	0.4187
	Root MSE	=	701.94

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		Robust				
price	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
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t0	0	(omitted)				
t1	0	(omitted)				
t2	0	(omitted)				
t3	-.233905	1.323991	-0.18	0.860	-2.845967	2.378157
t4	.0122271	.0934797	0.13	0.896	-.1721963	.1966505
t5	-.0002915	.0026682	-0.11	0.913	-.0055556	.0049725
t6	3.31e-06	.000037	0.09	0.929	-.0000698	.0000764
t7	0	(omitted)				
t8	-4.32e-10	3.66e-09	-0.12	0.906	-7.64e-09	6.78e-09
t9	4.35e-12	4.56e-11	0.10	0.924	-8.55e-11	9.42e-11
t10	-1.42e-14	1.01e-13	-0.14	0.888	-2.13e-13	1.84e-13
t11	1.84e-30	1.17e-29	0.16	0.875	-2.12e-29	2.49e-29
t12	0	(omitted)				
t13	0	(omitted)				
t14	-1.87e-36	1.25e-35	-0.15	0.881	-2.65e-35	2.28e-35
t15	1.41e-38	7.45e-38	0.19	0.850	-1.33e-37	1.61e-37
t16	-2.94e-41	1.87e-40	-0.16	0.875	-3.98e-40	3.39e-40
t17	0	(omitted)				
t18	5.01e-88	1.84e-87	0.27	0.785	-3.12e-87	4.12e-87
t19	-4.32e-90	1.76e-89	-0.25	0.806	-3.90e-89	3.04e-89
t20	9.39e-93	3.81e-92	0.25	0.806	-6.58e-92	8.46e-92
_cons	6830.107	905.7364	7.54	0.000	5043.207	8617.007
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. import excel "C:\Users\lyx\Desktop\2040 proj\Part1_training_data.xlsx", sheet("7") firstrow
clear
```

```
. reg price t0 t1 t2 t3 t4 t5 t6 t7, robust
note: t0 omitted because of collinearity
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Linear regression	Number of obs	=	200
	F(5, 192)	=	.

Prob > F	=	.
R-squared	=	0.4068
Root MSE	=	696.03

		Robust				
price	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
t0	0	(omitted)				
t1	69.37248	94.67809	0.73	0.465	-117.3703	256.1152
t2	-8.938319	4.740561	-1.89	0.061	-18.28859	.4119464
t3	.2470503	.113055	2.19	0.030	.024061	.4700395
t4	-.0030035	.0014172	-2.12	0.035	-.0057988	-.0002082
t5	.0000186	9.62e-06	1.93	0.055	-4.15e-07	.0000375
t6	-5.74e-08	3.34e-08	-1.72	0.087	-1.23e-07	8.47e-09
t7	7.11e-11	4.66e-11	1.53	0.128	-2.07e-11	1.63e-10
_cons	6743.405	759.4635	8.88	0.000	5245.442	8241.368

```
. import excel "C:\Users\lyx\Desktop\2040 proj\Part1_training_data.xlsx", sheet("8") firstrow
clear
```

```
. reg price t0 t1 t2 t3 t4 t5 t6 t7 t8 , robust
note: t0 omitted because of collinearity
```

Linear regression	Number of obs	=	200
	F(5, 191)	=	.
	Prob > F	=	.
	R-squared	=	0.4068
	Root MSE	=	697.85

		Robust				
price	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
t0	0	(omitted)				
t1	65.09879	125.6443	0.52	0.605	-182.7298	312.9274
t2	-8.576407	8.663318	-0.99	0.323	-25.66447	8.511659
t3	.2340141	.2832543	0.83	0.410	-.3246943	.7927225
t4	-.0027619	.0049502	-0.56	0.578	-.0125261	.0070022
t5	.0000161	.0000491	0.33	0.744	-.0000807	.0001128
t6	-4.30e-08	2.76e-07	-0.16	0.876	-5.88e-07	5.02e-07
t7	2.72e-11	8.23e-10	0.03	0.974	-1.60e-09	1.65e-09
t8	5.46e-14	1.01e-12	0.05	0.957	-1.93e-12	2.04e-12

_cons	6756.383	768.1206	8.80	0.000	5241.295	8271.472
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. import excel "C:\Users\lyx\Desktop\2040 proj\Part1_training_data.xlsx", sheet("4") firstrow
clear
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. reg price t0 t1 t2 t3 t4 , robust
note: t0 omitted because of collinearity
```

Linear regression	Number of obs	=	200
	F(4, 195)	=	27.52
	Prob > F	=	0.0000
	R-squared	=	0.3708
	Root MSE	=	711.29

		Robust				
price	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
+-----						
t0	0	(omitted)				
t1	-153.033	29.49958	-5.19	0.000	-211.2122	-94.85383
t2	2.863775	.5071883	5.65	0.000	1.863496	3.864054
t3	-.0194098	.0033909	-5.72	0.000	-.0260974	-.0127223
t4	.0000429	7.74e-06	5.54	0.000	.0000276	.0000581
_cons	7822.637	522.5276	14.97	0.000	6792.106	8853.168

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. save "C:\Users\lyx\Desktop\2040 proj\Taylor_n_selection.dta"
file C:\Users\lyx\Desktop\2040 proj\Taylor_n_selection.dta saved
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