Exercise 1

Open the 1978 Automobile Data and summarize the variables.

```
. sysuse auto
(1978 Automobile Data)

. summarize
```

Variable	Obs	Mean	Std. Dev.	Min	Max
make	0				
price	74	6165.257	2949.496	3291	15906
mpg	74	21.2973	5.785503	12	41
rep78	69	3.405797	.9899323	1	5
headroom	74	2.993243	.8459948	1.5	5
trunk	74	13.75676	4.277404	5	23
weight	74	3019.459	777.1936	1760	4840
length	74	187.9324	22.26634	142	233
turn	74	39.64865	4.399354	31	51
displacement	74	197.2973	91.83722	79	425
gear_ratio	74	3.014865	.4562871	2.19	3.89
foreign	74	.2972973	.4601885	0	1

Exercise 2

Run a regression of price on milage and weight.

```
. regress price mpg weight
```

Source	SS	df	MS		
Model	186321280	2	93160639.9		
Residual	448744116	71	6320339.67		
Total	635065396	73	8699525.97		

Number of obs	=	74
$F(2, 71)$	=	14.74
Prob > F	=	0.0000
R-squared	=	0.2934
Adj R-squared	=	0.2735
Root MSE	=	2514

price	Coef.	Std. Err.	t	P>|t|	[95% Conf. Interval]	
mpg	-49.51222	86.15604	-0.57	0.567	-221.3025	122.278
weight	1.746559	.6413538	2.72	0.008	.467736	3.025382
_cons	1946.069	3597.05	0.54	0.590	-5226.245	9118.382