

# Econ 294 Assignment 1

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Have a look at the last question before you start.

1. Load Data and verify it was loaded correctly.

- From .dta (STATA File) > [https://github.com/EconomiCurtis/econ294\\_2015/raw/master/data/org\\_example.dta](https://github.com/EconomiCurtis/econ294_2015/raw/master/data/org_example.dta)
- From CSV
- From Tab delimited
- .xls Excel file
- From RData

length, dim, nrow, ncol, summary stats functions.

2. c function.

summary stats with NA and NULL values.

3. Matrix operations.

Create the following matrix and call it **x**.

1	2	3
4	5	6
7	8	9

Show how to find it's transpose.

Find the eigenvalues and eigenvectors of **x**.

Now create the following matrix and call it **y**.

1	2	3
3	2	1
2	3	0

Find the inverse of **y**.

Multiple **y** by its inverse. What is this new matrix called?

4. Create a data frame.

carat	cut	clarity	price
5	"fair"	"SI1"	850
2	"good"	"I1"	450
0.5	"very good" <sub>1</sub>	"V1"	450
1.5	"good"	"VS1"	NULL
5	"fair"	"IF"	750
NA	"Ideal"	"VVS2"	980
3	"fair"	"SI1"	420