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## Course Project:

Please find one dataset with at least 2 predictors and one response variable that have a clearly described background. (1) Fit a linear regression model to the data; (2) check your model about the significance and refine your model; (3) check if the assumptions are violated; (4) describe your findings based on the modeling.

You need to write a report with all the details of the analysis, including the estimated model, Figures to explain the procedure (e.g. Y against each X, residuals checking); and attach the code.

Here are some useful websites. Of course, you can find the data from other sources.

http://www.stat.ucla.edu/projects/datasets/

http://www.psych.yorku.ca/lab/psy6140/ex/data.htm

http://lib.stat.cmu.edu/data-expo/1983.html

http://lib.stat.cmu.edu/data-expo/1986.html

http://lib.stat.cmu.edu/data-expo/1988.html

http://lib.stat.cmu.edu/data-expo/1995.html

http://lib.stat.cmu.edu/datasets/

http://www.statsci.org/datasets.html

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Deadline for the submission of your project:  Friday, 14 December 2012