

## Question 8.2

Using crime data from <http://www.statsci.org/data/general/uscrime.txt> (file `uscrime.txt`, description at <http://www.statsci.org/data/general/uscrime.html> ), use regression (a useful R function is `lm` or `glm`) to predict the observed crime rate in a city with the following data:

M = 14.0  
So = 0  
Ed = 10.0  
Po1 = 12.0  
Po2 = 15.5  
LF = 0.640  
M.F = 94.0  
Pop = 150  
NW = 1.1  
U1 = 0.120  
U2 = 3.6  
Wealth = 3200  
Ineq = 20.1  
Prob = 0.04  
Time = 39.0

Show your model (factors used and their coefficients), the software output, and the quality of fit.

**Note** that because there are only 47 data points and 15 predictors, you'll probably notice some overfitting. We'll see ways of dealing with this sort of problem later in the course.