Lab 9: Diagnostics

1. Using the cars2010 data set, run the regression with the following explanatory variables:

EngDispl
Transmission
AirAspirationMethod
TransLockup
TransCreeperGear
DriveDesc
IntakeValvePerCyl
CarlineClassDesc
VarValveLift

   a. Let's assume that these observations are ordered throughout time (observation 1 was the first to be observed in time, observation 2 was the 2nd and so forth), check for 1st order autocorrelation using the Durbin-Watson test.
   b. Use plots to identify potential influential observations based on the suggested cutoff values.
   c. Are there any observations with a dffits larger than 1 AND studentized residuals larger than 3 in magnitude? If so, list the observations.