- Reconsider the National Football League data from Problem 3.1. Fit a model to these data using only x_7 and x_8 as the regressors.
 - a. Test for significance of regression.
 - **b.** Calculate R^2 and R_{Adj}^2 . How do these quantities compare to the values computed for the model in Problem 3.1, which included an additional regressor (x_2) ?
 - c. Calculate a 95% CI on β_7 . Also find a 95% CI on the mean number of games won by a team when $x_7 = 56.0$ and $x_8 = 2100$. Compare the lengths of these CIs to the lengths of the corresponding CIs from Problem 3.3.
 - **d.** What conclusions can you draw from this problem about the consequences of omitting an important regressor from a model?