STA 206 Homework 7

- I False. A reference class must be chosen, so only two out of the three dummy variables should be created.
 - Folse. Higher exponents tend not to be used because of overfitting concerns.
 - True. This can also be but does not have to be an indicator
 - Filse, use [# of classes -1] dummy variables/indicators to
- 2. Q Y = B. + B, X + B2 X + B3 X3
 - BY= B: + B1X, + B12 X1 + B21 X2 + B22 X2 + B31 X3 + B32 X3
 - OY= Bo+ B, X, +B, X2 +B3 X3 +B12 X1X2 +B13 X, X3 +B23 X2X3