1. Recall the Experiment 2 performed by all of you in Worksheet 1. Let X be the out come of the roll of a die and Y be the number of Heads in X tosses.

   (a) In R, using the the data set `dicetoss.csv` from the experiment, write an `R-code` that computes the conditional distribution of Y given X, for $X = 1, 2, 3, 4, 5, 6$. The output should be saved as a csv with entry of each row providing the conditional distribution Y for each value of X.

   (b) In R, using the the data set `dicetoss.csv` from the experiment, write an `R-code` that computes the conditional distribution of X given Y , for $Y = 1, 2, 3, 4, 5, 6$. The output should be saved as a csv with entry of each row providing the conditional distribution X for each value of Y.