Assignment 11

1. The file planes.txt contains 30 observations of 4 variables. You can read this into R
   using `read.table("planes.txt", header=T)`

   The data is from 30 air force missions during the Vietnam war.

   The 4 variables are as follows: y is the the number of damaged locations of the aircraft;
   $x1$ is the type of aircraft, 0 for A4, 1, for A6; $x2$ is the aircraft bomb load in tons; and
   $x3$ is the total months of aircrew experience.

   Model y in JAGS using Poisson regression with a log link function. Use DIC to
   determine which of the three explanatory variables should be included in your model.

   Once you have identified the 'best' model, use it calculate 95% prediction intervals for
   the amount of damage for both A4 and A6 planes, with a crew with minimal, average,
   and maximal experience, for a minimal, average, and maximal bombload.