36-401 Homework #12 Due 12/7/00

1. (**20 pts**) The file titanic.dat contains one row for each passenger on the titanic. The columns are class, adult, male and survive, where class will be a factor with levels 1, 2, 3, and C(rew), and the other variables are coded in the obvious way. Perform a single logistic regression using the formula

   $$\text{Survive} \sim \text{C(Class,contr.treatment)} + \text{Adult} + \text{Male}$$

   The C() codes 1st class as 0, and allows comparison of each of the other three classes to 1st class. (Omit people with NA's.) Interpret each significant coefficient. Extra credit: what is missing from the right side of the formula?

2. (**10/100 Project points**) One member of your project group must send me an e-mail listing the major (in terms of your time) aspects of your progress on the project for the week. Send this by 2 PM Thursday.