ASSIGNMENT #6

#1 DATES
The following data are similar to data in example 8.3 in the notes.

data admits;
format admit mmdyay10.;
input admit1 : mmdyay10. @@;
datalines;
11181998 12111998 02281998 02161998 02271998 05071998 05101998 06031998 08021998 08131998
01081997 07251997 02041997 08171997 03071997 11161997 03281997 09301997 12271997 04031997
; run;

A/ Use the data set ADMITS created by the above data step to create a two new data sets: one that contains only those observations from July 1, 1997 through December 31, 1997; another that contains observations from January 1, 1998 through June 30, 1998. (HINT: Write a new data step, use a SET statement to read data set ADMITS, use date constants or functions (e.g. MDY) and OUTPUT to create new data sets.)

B/ Use data set ADMITS to find the most common day of the week for admission. (HINT: Use a function or format.)

C/ Similar to B... find the most common day of the week for admission in 1997 and 1998.

#2 DATES
Here some data for people participating in a study....

data study;
input id : $5.  firstvis : mmdyay8.;
datalines;
12345 01092001
23456 10152001
34567 07062001
; run;

Each observation has a date that represents their first visit to your clinic. Each person in the study is supposed to come back for their next visit in 6 months (assume that means 180 days). Write SAS code that allows you to tell each person the date that they should make their next visit to your clinic.

See if you can add SAS code that does this too...

If the follow up visit is to occur on a Saturday, change the date to the preceding Friday.
If the follow up visit is to occur on a Sunday, change the date to the following Monday.

#3 DATES (FIRST. and LAST. variables)...
(from assignment #2) There is a data file available in the computer lab named... CLINICAL.DAT. It contains the following data...

column           data
1-2              patient ID
3-10             date of visit (stored as mm/dd/yy)
11                drug or placebo group (D or P)
12-14             cholesterol
15-17             systolic bp
18-20             diastolic bp
21-22             heart rate
23                routine visit, yes or no  (Y or N)

A/ Use FIRST. and LAST. variables to create a data set that contains only these variables....the change from first visit to last visit in cholesterol, both blood pressures, and heart rate for each person (as indicated by patient ID), patient ID.

B/ Use the new data set to compute the mean change in cholesterol, both blood pressures, and heart rate in the DRUG and PLACEBO groups. (HINT: PROC MEANS with VAR and CLASS statements).

C/ Can you come up with a way to add the number of visits (per person) to each observation of the data set you created in part A?