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/* Bringing data in from the Excel spreadsheet file.
   I saved each worksheet as a separate CSV file.
   Used the INFILE statement to bring in each dataset */

Data January;
  infile "C:\Users\edwardsm\Documents\Workshops\SAS\W18\20180201\January.csv"
  dlm="," firstobs=2;
  input ID Trmt$ Month_1$ Weight_jan;
Run;

Data February;
  infile
"C:\Users\edwardsm\Documents\Workshops\SAS\W18\20180201\February.csv" dlm=","
firstobs=2;
  input ID Trmt$ Month_2$ Weight_feb;
Run;

Data March;
  infile "C:\Users\edwardsm\Documents\Workshops\SAS\W18\20180201\March.csv"
  dlm="," firstobs=2;
  input ID Trmt$ Month_3$ Weight_mar;
Run;

Data April;
  infile "C:\Users\edwardsm\Documents\Workshops\SAS\W18\20180201\April.csv"
  dlm="," firstobs=2;
  input ID Trmt$ Month_3$ Weight_mar Month_4$ weight_apr;
Run;

/* Proc print to make sure the data looks like I think it should */

Proc print data=april;
run;

/* Sorting each dataset by ID - getting it ready to merge */

Proc sort data=January;
  by ID;
Run;

Proc sort data=February;
  by ID;
Run;

Proc sort data=March;
  by ID;
Run;

/* Merging the 3 datasets by ID */
Data jan_mar;
  merge january february march;
  by ID;
Run;

/* Proc Print to review the merged dataset */
Proc print data=jan_mar;
Run;

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/* Adding the observations from the April weights to the merged dataset */
Data jan_apr;
    set jan_mar april;
Run;

/* Proc print to make sure everything looks fine */
Proc print data=jan_apr;
Run;

/* Calculate weight gain from January to March */
Data jan_apr_wtgain;
    set jan_apr;

    wtgain = weight_mar - weight_jan;
Run;

/* Proc print to check data */
Proc print data=jan_apr_wtgain;
Run;

/* Create the wtclass variable which is recoding or grouping weights taken in
January */
Data jan_apr_wtgain;
    set jan_apr;

    wtgain = weight_mar - weight_jan;
    if weight_jan < 17 then wtclass = 1;
    if weight_jan ge 17 and weight_jan < 21 then wtclass =2;
    if weight_jan > 20 then wtclass =3;

Run;

/* Proc print to check data */
Proc print data=jan_apr_wtgain;
Run;

```