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*Project 1-- csc433
Sarah Cummings
4/13/16;
options linesize=70 nodate pageno=1;
data erie;
        *read in the text file which contains our data and set it to read starting with the 12th line;
        infile "/folders/myfolders/433files/erie-marathon-2006.txt" firstobs=12 obs=447 flowover
truncover;
        *create variables and point to where they are in the file;
        input jerseyNumber 3-5 place 9-11 name $19-29 finalTime $88-94 milePace $98-102;
        *get rid of the lines we don't want by having sas throw out the lines without a jersey
number
        *perhaps this is  trivial way to get discard those extra lines, but it works;
        if missing(jerseyNumber) then delete;
run;

*sort by name to be printed;
proc sort;
        by name;

*Print data and label our varaibles to clarify;
proc print label;
        label jerseyNumber= 'Jersey Number';
        label place= 'Place';
        label name= 'Name';
        label finalTime= 'Final Time';
        label milePace= 'Mile Pace';
*create a title for our print page;
        title 'Alphabetized Erie Marathon Runners';

*sort by final time as per required for our second report;
proc sort;
        by finalTime;

*Do the assignment the second way-- with an output file;
data erie;
        *create a new file to store our data to;
        file "/folders/myfolders/433files/erie-marathon3.txt";
        *read in the text file which contains our data and set it to read starting with the 12th line;
        infile "/folders/myfolders/433files/erie-marathon-2006.txt" firstobs=12 obs=447 flowover
truncover;
        *create variables and point to where they are in the file;
        input jerseyNumber 3-5 place 9-11 name $19-29 finalTime $88-94 milePace $98-102;
        *get rid of the lines we don't want by having sas throw out the lines without a jersey
number
        *perhaps this is  trivial way to get discard those extra lines, but it works;
        if missing(jerseyNumber) then delete;
        put'Jersey Number: ' jerseyNumber 'Place: ' place 'Name: ' name 'Final Time:' finalTime
'Mile Pace:' milePace;
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run;
quit;
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