

SOCY699C—Statistical Programming in SAS
Fall 2000—Homework #2

1. You are given the following data:

1. *CITY*: City in the United States
2. *FLFP72*: Labor Force Participation rate of women in 1972
3. *FLFP68*: Labor Force Participation rate of women in 1968

City	1972	1968
N.Y.	45	42
L.A.	50	50
Chicago	52	52
Philadelphia	45	45
Detroit	46	43
San Francisco	55	55
Boston	60	45
Pitt.	49	34
St. Louis	35	45
Connecticut	55	54
Wash., D.C.	52	42
Cinn.	53	51
Baltimore	57	49
Newark	53	54
Minn/St. Paul	59	50
Buffalo	64	58
Houston	50	49
Patterson	57	56
Dallas	64	63

The first data value, 1972 female labor force participation rate for New York is 0.45. In other words, the decimal place is not physically present in the data, but is implied.

Write a SAS program to read these data “instream.” Be sure to use comments and include variable labels.

2. Using the data from the first problem, create a separate data file and write a SAS program to read these data.
3. Using the data from either problem one or two, write a SAS program that creates a permanent SAS data file.
4. Write a SAS program to read the permanent SAS data file created in problem three and produce a listing of the contents as well as the values of the data set.

5. The data below summarize a study of men in twenty-five occupational groups in England. Two indices are presented for each occupational group. The smoking index is the ratio of the average number of cigarettes smoked per day by men in the particular occupational group to the average number of cigarettes smoked per day by all men. The mortality index is the ratio of the rate of deaths from lung cancer among men in the particular occupational group to the rate of deaths from lung cancer among all men. There were a total of twenty-five cases. The following describes the variables:
1. *OCCUP*: Occupational Group
 2. *SMOKING*: Smoking Index (100 = average)
 3. *MORTAL*: Lung Cancer Mortality Index (100 = average)

The data are located on the class account drive as well as my web page. Write a SAS program to read these data from the external file and write a permanent SAS data file