

SAS Programming Practice #6

Complete all tasks in a single SAS program. Use the INFILE method to read the data. INFILE the data set only once. Learn how to annotate your programs with either line or block comments. See Miscellaneous Tips in the Online Classroom.

An apartment complex owner is performing a study to see what improvements or changes in her complex may bring in more rental income. From a sample of 34 complexes she obtains the monthly rent on single bedroom units and the following characteristics:

AGE: the age of the property
SQFT: square footage of unit
SD: amount of security of deposit
UNTS: number of units in complex
GAR: presence of a garage (0 – no, 1 – yes)
CP: presence of carport (0 – no, 1 – yes)
SS: security system (0 – no, 1 – yes)
FIT: fitness facilities (0 – no, 1 – yes)
RENT: monthly rent

- 1 INFILE the apartment data (APARTMENT.TXT). The data set can be saved from the Data Sets page in the Online Classroom. In the same DATA step, create labels for each of the variables.
- 2 a. Construct the two-way contingency table for presence of a garage versus fitness facilities. Include only the observed frequency in the table; no ODS Graphics.

b. Construct the two-way contingency table for carport (row) versus security system. Include the observed frequency and for each response for carport, report the percent of the apartments that have a security system.
3. Is there a relationship between security systems and fitness facilities? Use $\alpha = 0.05$. Include a dotplot in your results; suppress all other plots.
4. Using a t-test for independent samples, test whether or not the mean age of the complex differs depending upon whether or not the complex has a garage. Use $\alpha = 0.05$ in your decision. Suppress all ODS Graphics.