

## Team Lab Assignment 3 (Regression Analysis)

Name: \_\_\_\_\_

Date: \_\_\_\_\_

The table below is from a sample from a larger data set collected on people discharged from a selected Pennsylvania hospital as part of a retrospective chart review of antibiotic usage in hospitals.

**Table 2.11** Hospital-stay data

ID no.	Duration of hospital stay	Age	Sex 1 = M 2 = F	First temp. following admission	First WBC ( $\times 10^3$ ) following admission	Received antibiotic 1 = yes 2 = no	Received bacterial culture 1 = yes 2 = no	Service 1 = med. 2 = surg.
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**Import the hospital dataset in the SAS to answer the questions below.**

**Question 1.** Run a linear regression model to determine where age has a linear effect on duration of stay in the hospital. Paste results from SAS here.

**Question 2.** What is the F-test statistics?

**Question 3.** What is the p-value from the F-test statistics?

**Question 4.** What is the conclusion for based on the p-value from the F test?

**Question 5.** What is the t-test statistics?

**Question 6.** What is the p-value from the t-test statistics?

**Question 7.** What is the conclusion for based on the p-value from the t test?

**Paste your code here.**