MAT: 3312 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 (× 10³) following admission	Received antibiotic 1 – yes 2 – no	Received bacterial culture 1 – yes 2 – no	Service 1 – med. 2 – surg.

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 code here.