HW2

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library(psych)  
library(ggplot2)

##   
## Attaching package: 'ggplot2'

## The following objects are masked from 'package:psych':  
##   
## %+%, alpha

# Homework 2

This is an R Markdown document. Markdown is a simple formatting syntax for authoring HTML, PDF, and MS Word documents. For more details on using R Markdown see <http://rmarkdown.rstudio.com>.

When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

## Questions 2.1-2.3

load("/Users/cruzer/Desktop/AUFall2021/Biostats/biosdata/HOSPITAL.DAT.rdata")  
load("/Users/cruzer/Desktop/AUFall2021/Biostats/biosdata/HOSPITAL.DAT.rdata")

describe(hospital)

## vars n mean sd median trimmed mad min max range skew  
## Id 1 25 13.00 7.36 13.0 13.00 8.90 1.0 25.0 24.0 0.00  
## Dur\_stay 2 25 8.60 5.72 8.0 7.71 4.45 3.0 30.0 27.0 2.07  
## Age 3 25 41.24 20.10 41.0 41.00 23.72 4.0 82.0 78.0 0.16  
## Sex 4 25 1.56 0.51 2.0 1.57 0.00 1.0 2.0 1.0 -0.23  
## Temp 5 25 98.31 0.68 98.2 98.33 0.59 96.8 99.5 2.7 -0.19  
## wbc 6 25 7.84 3.21 7.0 7.67 2.97 3.0 14.0 11.0 0.45  
## Antibio 7 25 1.72 0.46 2.0 1.76 0.00 1.0 2.0 1.0 -0.92  
## Bact\_cul 8 25 1.76 0.44 2.0 1.81 0.00 1.0 2.0 1.0 -1.15  
## Service 9 25 1.64 0.49 2.0 1.67 0.00 1.0 2.0 1.0 -0.55  
## kurtosis se  
## Id -1.34 1.47  
## Dur\_stay 5.26 1.14  
## Age -0.88 4.02  
## Sex -2.02 0.10  
## Temp -0.38 0.14  
## wbc -1.08 0.64  
## Antibio -1.19 0.09  
## Bact\_cul -0.71 0.09  
## Service -1.76 0.10

summary(hospital$Dur\_stay)

## Min. 1st Qu. Median Mean 3rd Qu. Max.   
## 3.0 5.0 8.0 8.6 11.0 30.0