(Ex1) We would like to realize which factors are related to the likelihood that a hospital patients acquires an infection while hospitalized. The variables here are y= infection risk, x1= average length of patient stay, x2= average patient age, x3= measure of how many x-rays are given in the hospital ([**Hospital Infection dataset**](https://online.stat.psu.edu/onlinecourses/sites/stat501/files/data/hospital_infct.txt)).

(Ex2)

There are 214 females in statistics classes at the University of California at Davis([**Stat Females dataset**](https://online.stat.psu.edu/onlinecourses/sites/stat501/files/data/stat_females.txt)). The variables are y= student’s self-reported height, x1= student’s guess at her mother’s height, and x2= student’s guess at her father’s height. All heights are in inches.