**# ERIC AGYEMANG HMW1**

college <- read.csv(file.choose(), header=T)rownames(college) = college[, 1]

rownames(college) = college[, 1]

fix(college)

college = college[, -1]

fix(college)

summary(college)

pairs(college[, 1:10])

boxplot(college$Outstate ~ college$Private, col = c("yellow", "green"), main = "Outstate versus Private", xlab = "Private", ylab = "Outstate")

Elite = rep("No", nrow(college))

Elite[college$Top10perc > 50] = "Yes"

Elite = as.factor(Elite)

college = data.frame(college, Elite)

fix(college)

summary(college$Elite)

boxplot(college$Outstate ~ college$Elite, col = c("cyan", "magenta"), main = "Outstate versus Elite", xlab = "Elite", ylab = "Outstate")

par(mfcol = c(2, 3))

hist(college$Accept, breaks = 6, freq = TRUE, col = "gray", main = "Histogram",

xlab = "Accept", ylab = "Value")

hist(college$Accept, breaks = 10, freq = TRUE, col = "purple", main = "Histogram",

xlab = "Accept", ylab = "Value")

hist(college$Enroll, breaks = 6, freq = TRUE, col = "gray", main = "Histogram",

xlab = "Enroll", ylab = "Value")

hist(college$Enroll, breaks = 10, freq = TRUE, col = "purple", main = "Histogram",

xlab = "Enroll", ylab = "Value")

hist(college$Top10perc, breaks = 6, freq = TRUE, col = "gray", main = "Histogram",

hist(college$Top10perc, breaks = 10, freq = TRUE, col = "purple", main = "Histogram",

xlab = "Top10perc", ylab = "Value")

summary(college$PhD)

plot(fitdist(college$Grad.Rate, "norm", method = "mle"), demp = T,breaks =quantile(college$Grad.Rate, probs = seq(0.0, 1.0, by = 0.1)))

seq <- seq(0.0, 1.0, by = 0.1)

hist(college$Accept.Rate, col = "beige",

breaks = quantile(college$Accept.Rate, probs = seq))

hist(college$Grad.Rate, col = "orange",

breaks = quantile(college$Grad.Rate, probs = seq))

hist(college$Enroll.Rate, col = "red",

breaks = quantile(college$Enroll.Rate, probs = seq))

hist(college$Top10perc, col = "black",

breaks = quantile(college$Top10perc, probs = seq))

par(mfrow = c(2,2))

hist(college$Books, col = 2, xlab = "Books", ylab = "Count")

hist(college$PhD, col = 3, xlab = "PhD", ylab = "Count")

hist(college$Grad.Rate, col = 4, xlab = "Grad Rate", ylab ="Count")

hist(college$perc.alumni, col = 6, xlab = "% alumni"