# Question-1: mins Look at the data given below. Plot the data, find the outliers and find out

Name\_of\_the\_company <- c("Allied Signal",

"Bankers Trust",

"General Mills", "ITT Industries",

"J.P.Morgan & Co.", "Lehman Brothers",

"Marriott", "MCI", "Merrill Lynch",

"Microsoft", "Morgan Stanley",

"Sun Microsystems",

"Travelers", "US Airways",

"Warner--Lambert")

Measure\_x <- c(24.23, 25.53, 25.41, 24.14, 29.62, 28.25, 25.81, 24.39,

40.26, 32.95, 91.36, 25.99, 39.42, 26.71, 35.00)

Data <- data.frame(Name\_of\_the\_company, Measure\_x)

Data

plot(Data$Measure\_x)

hist(Data$Measure\_x)

outlier(Data$Measure\_x)

mean(Data$Measure\_x)

sigma(Data)

sd(Data$Measure\_x)

var(Data$Measure\_x)

# Question - 2:: Answer the following three questions based on the box-plot above.

# Question-2(i) : What is inter-quartile range of this dataset? (Please approximae the numbers)

# In one line, explain what this value implies.

iqr <- c(seq(0,15, 0.5),20, 25)

iqr

boxplot(iqr, horizontal = TRUE)

Inter-QuartileRange = Q3-Q1

Q3 = 12.5

Q1 = 5

IQR = Q3 - Q1

cat("IQR = ", IQR)

# The IQR value implies the middle 50% of the data.

# Question-2(ii):: What can we say about the skewness of this dataset?

# Ans: That it is skewed to the left.

# Question-2(iii)::

# Question -3 :: Answer the following three question based on the histogram above?

# (i): Where would the mode of this dataset lie?

Ans = 21 & 9

# (ii) comment on the skewness of the dataset?

Ans. The dataset is skewed on the left side.

# Question - 4 ::

Ans - 1/5 = 0.2