install.packages('data.table')

library('data.table')

install.packages("microbenchmark")

library(microbenchmark)

dia.url <- "http://www.amstat.org/publications/jse/v9n2/4cdata.txt" diamonds <- read.table(dia.url)

names(diamonds) <- c("Carat","Color","Clarity","Cert","Price")   
 diamonds[1:5,]

tapply(diamonds$Price,INDEX=diamonds$Color,FUN=sum)