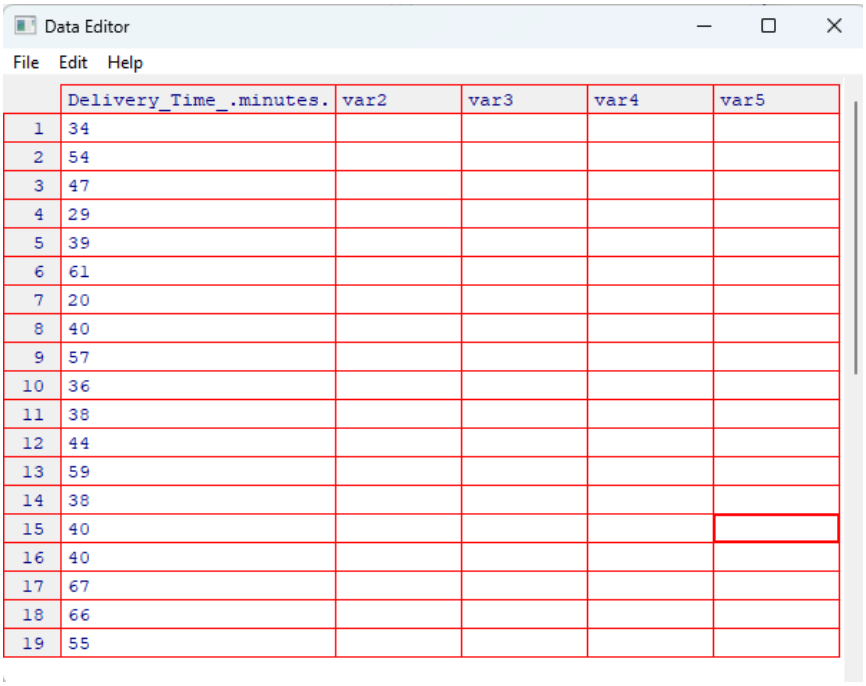
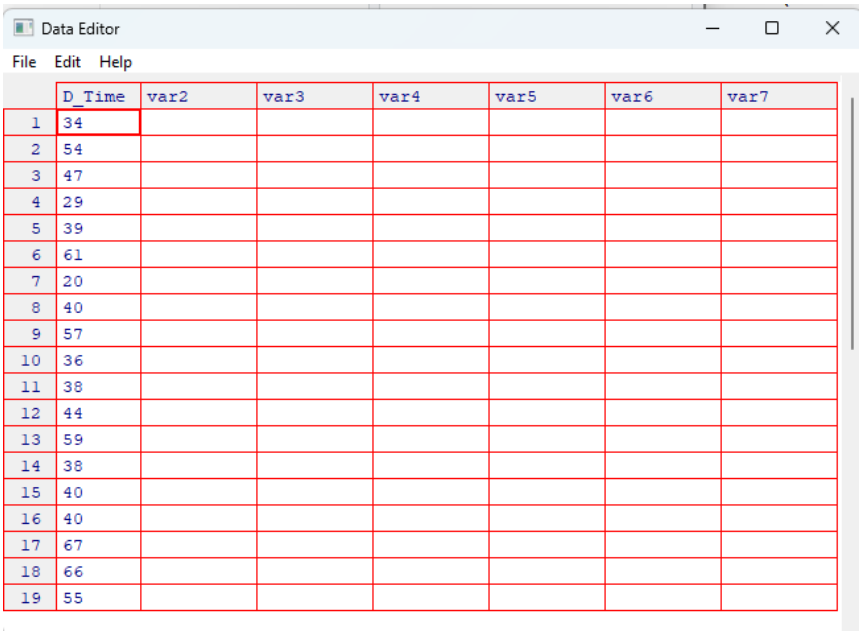
Q1).

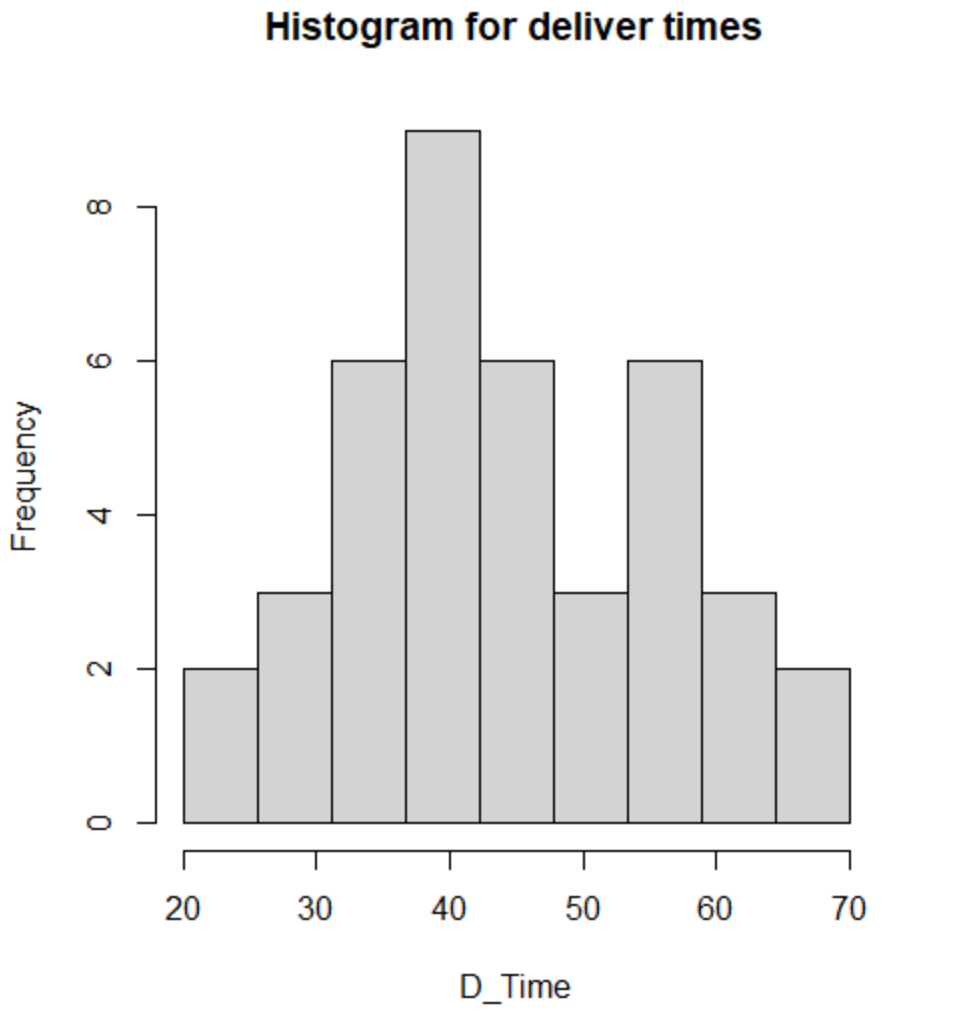



| | Delivery_Time_.minutes. | var2 | var3 | var4 | var5 |
|---|---|---|---|---|---|
| 1 | 34 | | | | |
| 2 | 54 | | | | |
| 3 | 47 | | | | |
| 4 | 29 | | | | |
| 5 | 39 | | | | |
| 6 | 61 | | | | |
| 7 | 20 | | | | |
| 8 | 40 | | | | |
| 9 | 57 | | | | |
| 10 | 36 | | | | |
| 11 | 38 | | | | |
| 12 | 44 | | | | |
| 13 | 59 | | | | |
| 14 | 38 | | | | |
| 15 | 40 | | | | |
| 16 | 40 | | | | |
| 17 | 67 | | | | |
| 18 | 66 | | | | |
| 19 | 55 | | | | |

Q2).



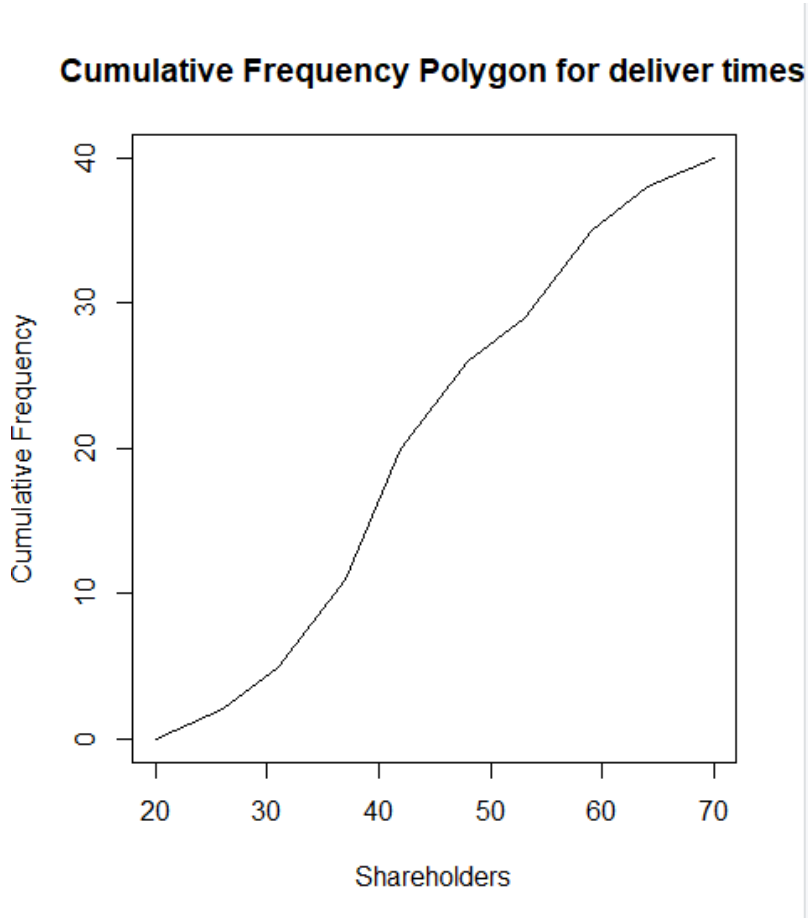

| | D_Time | var2 | var3 | var4 | var5 | var6 | var7 |
|---|---|---|---|---|---|---|---|
| 1 | 34 | | | | | | |
| 2 | 54 | | | | | | |
| 3 | 47 | | | | | | |
| 4 | 29 | | | | | | |
| 5 | 39 | | | | | | |
| 6 | 61 | | | | | | |
| 7 | 20 | | | | | | |
| 8 | 40 | | | | | | |
| 9 | 57 | | | | | | |
| 10 | 36 | | | | | | |
| 11 | 38 | | | | | | |
| 12 | 44 | | | | | | |
| 13 | 59 | | | | | | |
| 14 | 38 | | | | | | |
| 15 | 40 | | | | | | |
| 16 | 40 | | | | | | |
| 17 | 67 | | | | | | |
| 18 | 66 | | | | | | |
| 19 | 55 | | | | | | |




Q3).

Most of the data is at the low end, forming a peak on the left, and a few high values stretch the graph out to the right.

Q4).




```r
setwd("C:\\Users\\it24100680\\Desktop\\IT24100680")
Delivery_Times<-read.table("Exercise - Lab 05.txt",header=TRUE,sep = ",")
fix(Delivery_Times)
attach(Delivery_Times)

#Q2
names(Delivery_Times)<-c("D_Time")
attach(Delivery_Times)
fix(Delivery_Times)
histogram<-hist(D_Time,main="Histogram for deliver times",breaks = seq(20, 70,length = 10),right = FALSE)

#Q3
#Most of the data is at the low end, forming a peak on the left, and a few high values stretch the graph out to the right.

#Q4
breaks <- round(histogram$breaks)
freq <- histogram$counts
mids <- histogram$mids

classes <- c()

##Creating a "for" loop to assign classes of the frequency distribution into "Classes" variable

for(i in 1:length(breaks)-1){
  classes[i] <- paste0("[", breaks[i], ",", breaks[i+1], ")")
}

#get cumulative frequencies
cum.freq <- cumsum(freq)

new <- c()

## Using "for" loop to store cumulative frequencies in order to get the ogive
for(i in 1:length(breaks)){
  if(i==1){
    new[i] = 0
  } else {
    new[i] = cum.freq[i-1]
  }
}

plot(breaks, new, type = 'l', main = "Cumulative Frequency Polygon for deliver times", xlab = "Shareholders", ylab = "Cumulative Frequency", ylim = c(0,max(cum.freq)))
```

```
> #Q4
> breaks <- round(histogram$breaks)
> freq <- histogram$counts
> mids <- histogram$mids
> classes <- c()
>
> for(i in 1:length(breaks)-1){
+   classes[i] <- paste0("[", breaks[i], ",", breaks[i+1], ")")
+ }
>
> #get cumulative frequencies
> cum.freq <- cumsum(freq)
>
> new <- c()
>
> ## Using "for" loop to store cumulative frequencies in order to get the ogive
> for(i in 1:length(breaks)){
+   if(i==1){
+     new[i] = 0
+   } else {
+     new[i] = cum.freq[i-1]
+   }
+ }
> plot(breaks, new, type = 'l', main = "Cumulative Frequency Polygon for deliver times", xlab = "Shareholders", ylab = "Cumulative Frequency", ylim = c(0,max(cum.freq)))
>
```