

IT24100881

1. Import the dataset ('Exercise – Lab 05.txt') into R and store it in a data frame called "Delivery Times".

R Global Environment	
Data	
delivery	40 obs. of 1 variable
values	
breaks_times	num [1:10] 20 25.6 31.1 36.7 42.2 ...
times	num [1:18] 25 30 45 50 60 35 40 55 50 45 ...

```
setwd("C:\\Users\\IT24100881\\Downloads\\New folder")
```

```
#import dataset
```

```
delivery<-read.table("Exercise - Lab 05.txt", header=TRUE)
```

```
times <- delivery$Delivery_Time_.minutes.
```

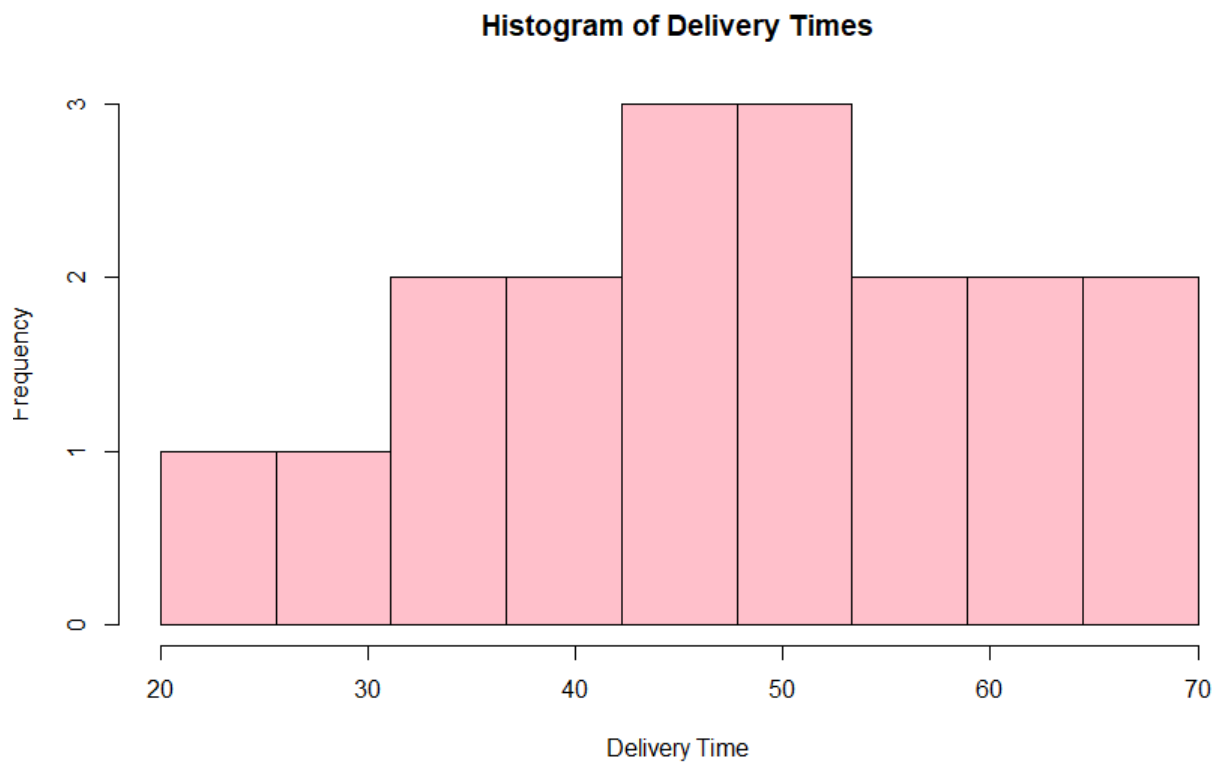
```
#Histogram with 9 classes 20-70, right open intervals
```

```
times <- c(25, 30, 45, 50, 60, 35, 40, 55, 50, 45, 65, 50, 70, 60, 55, 40, 35, 45)
```

```
breaks_times = seq(20, 70, length.out = 10)
```

```
hist(times,  
      breaks = breaks_times,  
      right = FALSE,  
      main = "Histogram of Delivery Times",  
      xlab = "Delivery Time",  
      col = "pink",  
      border = "black")
```

2. Draw a histogram for deliver times using nine class intervals where the lower limit is 20 and upper limit is 70. Use right open intervals.

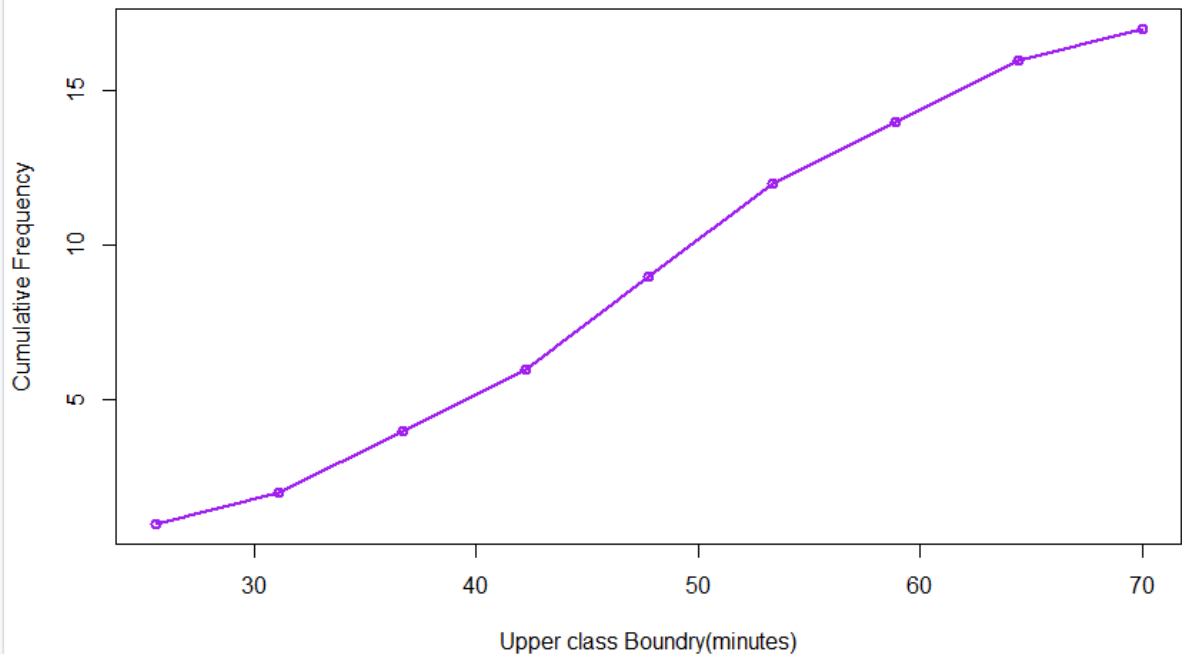


4. Draw a cumulative frequency polygon (ogive) for the data in a separate plot.

```
freq_times<-table(cut(times,
                      breaks=breaks_times,
                      right=FALSE))
freq_times

cum_freq_times<- cumsum(as.numeric(freq_times))
plot(breaks_times[-1],cum_freq_times,type="o",main="Cumulative Frequency Polygon(Ogive)",
     xlab="Upper class Boundry(minutes)",
     ylab="Cumulative Frequency",
     col="purple",
     lwd=2)
```

Cumulative Frequency Polygon(Ogive)



```
> delivery<-read.table("Exercise - Lab 05.txt", header=TRUE)
Error in file(file, "rt") : cannot open the connection
In addition: warning message:
In file(file, "rt") :
  cannot open file 'Exercise - Lab 05.txt': No such file or directory
> setwd("C:\\Users\\IT24100881\\Downloads\\New folder")
> delivery<-read.table("Exercise - Lab 05.txt", header=TRUE)
> times <- delivery$Delivery_Time_.minutes.
> times <- c(25, 30, 45, 50, 60, 35, 40, 55, 50, 45, 65, 50, 70, 60, 55, 40, 35, 45)
> breaks_times = seq(20, 70, length.out = 10)
> hist(times,
+       breaks = breaks_times,
+       right = FALSE,
+       main = "Histogram of Delivery Times",
+       xlab = "Delivery Time",
+       col = "pink",
+       border = "black")
> freq_times<-table(cut(times,
+                       breaks=breaks_times,
+                       right=FALSE))
> freq_times

      [20,25.6) [25.6,31.1) [31.1,36.7) [36.7,42.2) [42.2,47.8) [47.8,53.3) [53.3,58.9) [58.9,64.4) [64.4,70)
            1             1             2             2             3             3             2             2             1
>
>
>
> cum_freq_times<- cumsum(as.numeric(freq_times))
> plot(breaks_times[-1],cum_freq_times,type="o",main="Cumulative Frequency Polygon(Ogive)",
+       xlab="Upper class Boundry(minutes)",
+       ylab="Cumulative Frequency",
+       col="purple",
+       lwd=2)
>
>
```