

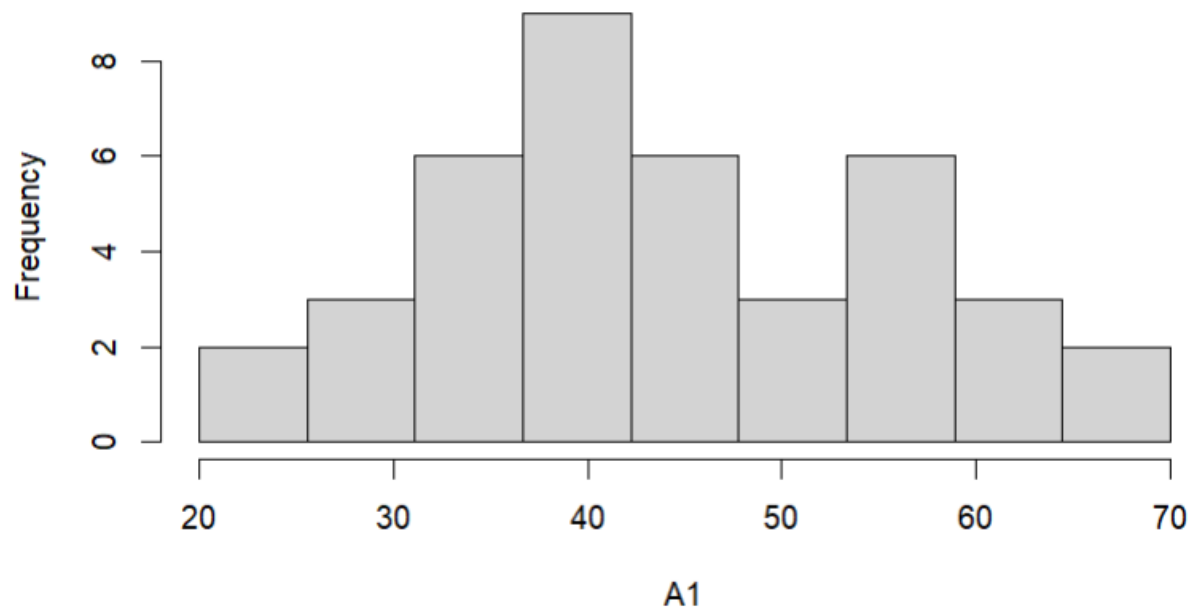
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Lab 05

```
1 setwd("C:\\Users\\User\\OneDrive\\Desktop\\SLIIT Modules\\PS\\Lab 05-20250828")
2 getwd()
3
4 #01
5 Delivery_Times <- read.table("Exercise - Lab 05.txt", header = TRUE, sep = ",")
6 fix(Delivery_Times)
7
8 attach(Delivery_Times)
9
10 names(Delivery_Times) <- c("A1")
11
12 attach(Delivery_Times)
13
14 #02
15 histogram <- hist(A1, main = "Histogram for Delivery Times", breaks = seq(20, 70, length = 10), right = FALSE)
16
17 #03
18 #Symmetric - Bell-shaped
19 #Spread - Delivery times range from about 20 to 70 mins.
20 #Tails: Both tails taper off fairly evenly on the left and right sides.
21 #Uniform - All bars almost equal
22
23 #04
24 breaks <- round(histogram$breaks)
25 freq <- histogram$counts
26
27 cum.freq <- cumsum(freq)
28
29 new <- c()
30
31 for(i in 1:length(breaks)){
32   if(i==1){
33     new[i] = 0
34   }
35   else{
36     new[i] = cum.freq[i-1]
37   }
38 }
39
40 plot(breaks, new, type = 'o', main = "Cumulative Frequency Polygon for Delivery Times", xlab = "Delivery Time", ylab = "Cumulative Frequency", ylim = c(0,max(cum.freq)))
41
42
```

Histogram for Delivery Times



Cumulative Frequency Polygon for Delivery Times

