

IT2120 - Probability and Statistics

Lab Sheet 04

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```
IT24104087.R x Delivery_Times x
Source on Save Run
1 setwd("C:\\Users\\IT24104087\\Desktop\\IT24104087")
2 Delivery_Times <- read.table("Exercise - Lab 05.txt", header = TRUE)
3
4 colnames(Delivery_Times) <- "Delivery_Time"
5 head(Delivery_Times)
6 str(Delivery_Times)
7
8 breaks <- seq(20, 70, length.out = 10)
9 hist(Delivery_Times$Delivery_Time, right = FALSE, breaks = breaks, main = "Histogram of Delivery Times", xlab = "Delivery Tim
10
11 hist_data <- hist(Delivery_Times$Delivery_Time, breaks = breaks, right = FALSE, plot = FALSE)
12 frequencies <- hist_data$counts
13 cum_freq <- cumsum(frequencies)
14 print(frequencies)
15 print(cum_freq)
16
17 midpoints <- hist_data$mids
18 plot(midpoints, cum_freq, type = "b",
19      main = "Cumulative Frequency Polygon for Delivery Time",
20      xlab = "Delivery Time (minutes)",
21      ylab = "Cumulative Frequency",
22      pch = 16)
23
24
25
26
```



Cumulative Frequency Polygon for Delivery Time

