

# Computational Statistics Computer Lab 6 (Group 7)

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## Question 1: Genetic algorithm (Solved by Qinyuan Qi)

Answer:

(1):

(2):

(3):

(4):

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## Question 2: EM algorithm (Solved by Satya Sai Naga Jaya Koushik Pilla)

Answer:

(1):

```
# Load data
data <- read.csv("censoredproc.csv",
                 sep = ";", header = TRUE)

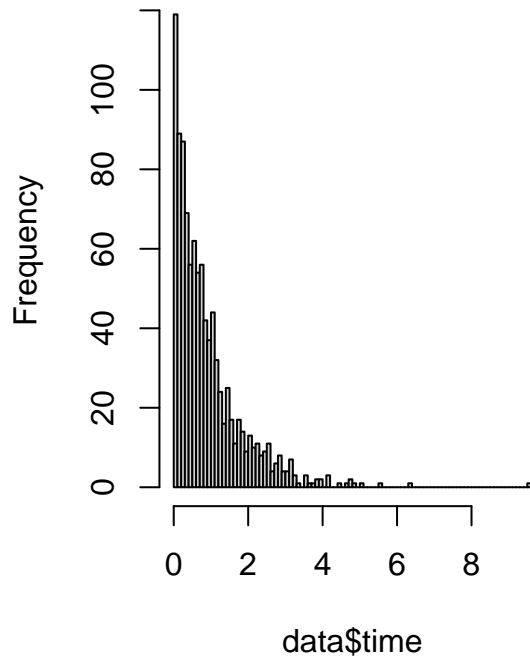
# Since we don't use the failure row, so all the rows with cens = 2 are filtered out
filtered_data <- data[data$cens != 2,]

layout(matrix(c(1:2), 1, 2))

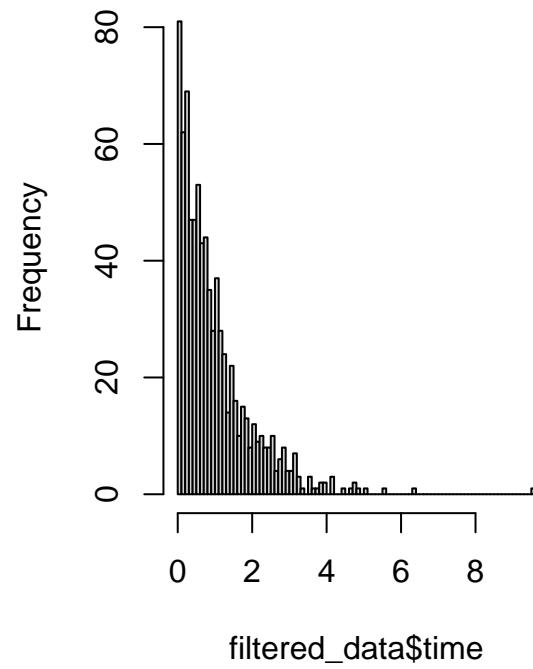
# plot the data
hist(data$time, breaks = 100, main="Hist of filtered data")

# plot the filtered data
hist(filtered_data$time, breaks = 100, main="Hist of filtered data")
```

**Hist of filtered data**



**Hist of filtered data**



(2):

(3):

(4):

(5):

(6):