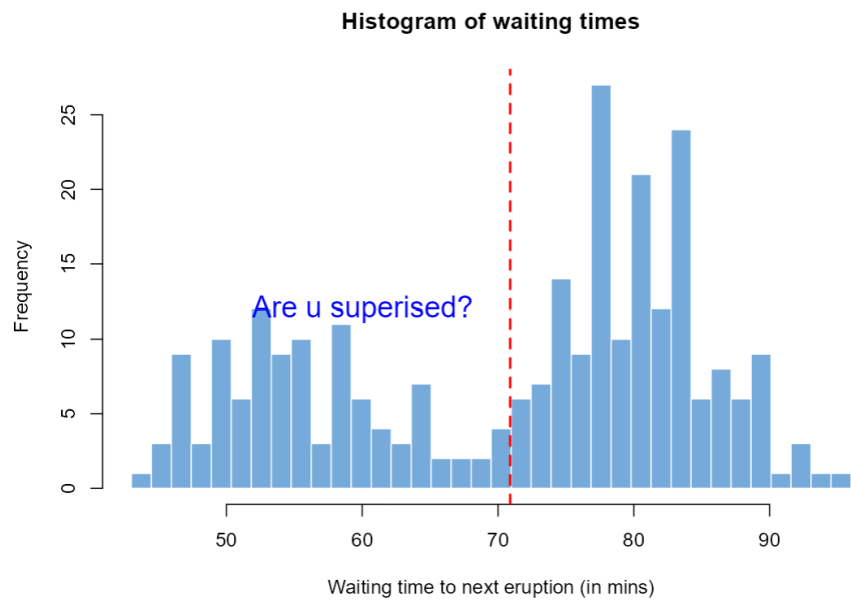
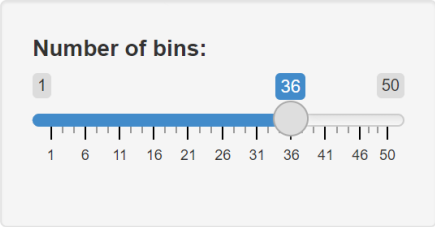


# Codealong and Challenge-8

Insert your name here

2023-10-11

## Old Faithful Geyser Data Analysis



Mean Waiting Time: 70.9  
Median Waiting Time: 76

screenshot

```

library(shiny)

# Define UI for the app
ui <- fluidPage(
  titlePanel("Old Faithful Geyser Data Analysis"),
  sidebarLayout(
    sidebarPanel(
      sliderInput(inputId = "bins",
        label = "Number of bins:",
        min = 1,
        max = 50,
        value = 30)
    ),
    mainPanel(
      plotOutput(outputId = "histogram"),
      textOutput("mean_text"),
      textOutput("median_text")
    )
  )
)

x <- faithful$waiting

# Define server logic
server <- function(input, output) {
  data <- faithful$waiting

  output$histogram <- renderPlot({
    bins <- seq(min(data), max(data), length.out = input$bins + 1)
    hist(data, breaks = bins, col = "#75AADB", border = "white",
      xlab = "Waiting time to next eruption (in mins)",
      main = "Histogram of waiting times")

    # Add a custom text annotation
    text(x = 60, y = 12, labels = "Are u superised?", col = "blue", cex = 1.5)

    # Add a red vertical line at a specific value (e.g., mean)
    abline(v = mean(x), col = "red", lwd = 2, lty = 2)

  })

  output$mean_text <- renderText({
    mean_val <- mean(data)
    paste("Mean Waiting Time:", round(mean_val, 2))
  })

  output$median_text <- renderText({
    median_val <- median(data)
    paste("Median Waiting Time:", round(median_val, 2))
  })
}

# Create Shiny app
shinyApp(ui = ui, server = server)

```