age\_intervals <- c("1-5", "5-15", "15-20", "20-50", "50-80", "80-110")

frequencies <- c(200, 450, 300, 1500, 700, 44)

# Calculate cumulative frequencies

cumulative\_freq <- cumsum(frequencies)

# Find the class interval containing the median

N <- sum(frequencies)

median\_class\_index <- which(cumulative\_freq >= N / 2)[1]

median\_class <- age\_intervals[median\_class\_index]

# Extract lower and upper bounds of the median class

median\_class\_bounds <- as.numeric(strsplit(median\_class, "-")[[1]])

L <- median\_class\_bounds[1]

U <- median\_class\_bounds[2]

# Calculate the approximate median

F <- cumulative\_freq[median\_class\_index - 1]

f <- frequencies[median\_class\_index]

w <- U - L

median <- L + ((N / 2 - F) / f) \* w

median

print("S.L.Vishaal")

print("192211617")

