```
} else if (age_group == "Youth") {
    return("12-17")
  } else if (age_group == "Adult") {
    return(sample(c("18-24", "25-34", "35-44", "45-54", "65+"), 1))
  } else {
    return("Unknown")
}
# Apply the function to generate age_cohort
age_cohort <- sapply(age_group, generate_age_cohort)</pre>
# Generate random values for COUNT column with 20% probability of value > 300
count <- ifelse(runif(num_rows) < 0.2, sample(301:2500, sum(runif(num_rows) < 0.2), replace</pre>
# Create the data frame
simulated_data <- data.frame(</pre>
 REPORT_YEAR = report_year,
 SUBTYPE = subtype,
 SEX = sex,
 AGE_GROUP = age_group,
 AGE_COHORT = age_cohort,
 COUNT_ = count
# Save the simulated data to a CSV file
output_path <- "Output/Data/simulated_data.csv"</pre>
write.csv(simulated_data, file = output_path, row.names = FALSE)
# Display the first few rows of the simulated dataset
head(simulated_data)
```

This code will save the simulated data to a CSV file located at "Output/Data/simulated\_data.csv".

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