X919_data <- read_excel("919report_data.xlsx")</pre> summary(X919_data)

#Case # Date Time Involved

#Min. : 1.00 Length:161 Length:161 Length:161

#1st Qu.: 7.00 Class :character Class :character

#Median : 21.00 Mode :character Mode :character Mode :character

#Mean : 52.43 #3rd Qu.:117.00 #Max. :188.00

#Max. :188.00
#Name/Description Gender Height
#Length:161 Length:161 Length:161
#Class :character Class :character Class :character
#Mode :character Mode :character Mode :character

#Call initiated to: Police (911) Call initiated to: Ambulance (911)

#Length:161 Length:161 #Class :character Class :character #Mode :character Mode :character

#Call initiated to: Fire (911) Attended By: Police Attended By: Ambulance

#Length:161 Length:161 Length:161
#Class :character Class :character Class :character #Mode :character Mode :character

 $\verb§#Incident Teyp(S): Injury Incident Teyp(S): Drug/Alcohol\\$

#Length:161 Length:161 #Class:character Class:character Mode :character #Mode :character

#Incident Teyp(S): Violence Incident Teyp(S): Staff Abuse

#Length:161 Length:161 #Class:character Class:character #Mode :character Mode :character

#Incident Teyp(S): Refuse to leave Incident Teyp(S): Property Damage

#Length:161 Length:161
#Class :character Class :character
#Mode :character Mode :character

#Incident Teyp(S): Other (Type) First Aid required Overdose

Event Location: Drop In Event Location: Lobby #Length:161 Length:161 Length:161 Length:161 Class :character Class :character Class :character Mode :characte Class :character Mode :character

#Event Location: Courtyard Event Location: Kitchen

Length:161 Class :character #Length:161 #Class :character Mode :character #Mode ·character

#Event Location: Dinning Area Event Location: Chapel

#Length:161 Length:161 #Class:character Class:character #Mode :character Mode :character

#Event Location: Hygiene Event Location: Games room

#Length:161 Length:161 #Class:character Class:character #Mode :character Mode :character

#Event Location: Shipping&Reveiving Area #Length:161

#Class :character

```
#Event Location: Perimeter Event Location: Snack Bar Other: (Enter)
#Length:161
                         Length:161
                                                Length:161
#Class :character
                         Class :character
                                                Class : character
#Mode :character
                         Mode :character
                                                Mode :character
timing_cat <- c("Dawn", "Morning", "Noon", "Afternoon", "Evening", "Night")
# Dawn -> 12:01 am to 4:00 am
                                0 00069444444444444 +0 0 16666666666666666
# Morning -> 4:01 am to 8:00 am
# Noon -> 8:01 am to 12:00 pm
                               0.16736111111111111 to 0.333333333333333333
                                0.3340277777777778 to 0.5
# Afternoon -> 12:01 pm to 4:00 pm 0.5006944444444444 to 0.66666666666666667
# Evening -> 4:01 pm to 8:00 pm 0.6673611111111111 to 0.8333333333333333
# Night -> 8:01 pm to 12:00 am
                                0.8340277777777778 to 1
time vector <- X919 data$Time
len <- length(time vector)
char_time <- vector(mode = "character", length = len) # create an empty vector
for(i in 1.len){
 char_time[i] = "Dawn"
  char time[i] = "Morning"
 char time[i] = "Afternoon"
 } else{
   char_time[i] = "Night"
char_time
#[1] "Afternoon" "Night"
                          "Noon"
                                      "Noon"
                                                 "Noon"
                                                            "Noon"
                                                                       "Afternoon" "Afternoon" "Evening"
                                                                                                                   "Evening" "Morning"
         "Noon" "Noon"

ht" "Afternoon" "Dawn"
"Morning"
#[16] "Night"
                                                  "Night"
                                                             "Night"
                                                                        "Evening" "Night"
                                       "Evening"
                                                                                               "Night"
                                                                                                          "Morning"
                                                                                                                     "Afternoon"
"Afternoon" "Night" "Evening"
                                "Evening"
#[31] "Evening"
                "Evening" "Night"
                                       "Afternoon" "Afternoon" "Night"
                                                                        "Noon"
                                                                                    "Afternoon" "Evening"
                                                                                                          "Evening"
                                                                                                                     "Evening"
                                                                                                                                 "Dawn"
"Afternoon" "Evening" "Evening" #[46] "Afternoon" "Afternoon" "Night"
                                       "Noon"
                                                  "Noon"
                                                             "Afternoon" "Afternoon" "Evening" "Morning"
                                                                                                          "Noon"
                                                                                                                      "Noon"
                                                                                                                                 "Noon"
"Afternoon" "Night" #[61] "Noon" "Night"
                     "Noon"
                "Night"
                           "Dawn"
                                       "Noon"
                                                  "Noon"
                                                             "Afternoon" "Afternoon" "Afternoon" "Noon"
                                                                                                          "Afternoon" "Evening"
                                                                                                                                 "Dawn"
         n" "Night" "Dawn"
#[76] "Evening"
              "Night"
                         "Night"
                                       "Noon"
                                                  "Noon"
                                                             "Noon"
                                                                         "Noon"
                                                                                    "Night"
                                                                                               "Afternoon" "Noon"
                                                                                                                      "Afternoon"
"Afternoon" "Afternoon" "Night"
                                 "Afternoon"
                           "Noon"
#[91] "Evening" "Evening"
"Afternoon" "Noon" "Nig
                                       "Noon"
                                                  "Noon"
                                                             "Afternoon" "Afternoon" "Evening" "Evening"
                                                                                                          "Noon"
                                                                                                                     "Noon"
                    ning" Noon
"Night" "lyening" "Noon"
                                "Noon"
#[106] "Afternoon" "Evening"
                                        "Afternoon" "Evening"
                                                              "Evening" "Evening" "Evening"
                                                                                                "Noon"
                                                                                                           "Afternoon" "Dawn"
"Evening"
          "Evening"
                     "Evening"
                                "Afternoon"
                            "Evening"
#[121] "Afternoon" "Evening"
                                        "Noon"
                                                   "Noon"
                                                              "Afternoon" "Afternoon" "Afternoon" "Afternoon" "Night"
                                                                                                                      "Afternoon"
"Afternoon" "Evening" "Morning" "Afternoon"
#[136] "Evening"
                 "Evening"
                             "Night"
                                        "Noon"
                                                   "Afternoon" "Evening"
                                                                         "Evening"
                                                                                     "Evening"
                                                                                                "Evening"
                                                                                                           "Afternoon" "Evening"
                                                                                                                                 "Night"
"Afternoon" "Evening"
                     "Evening"
                 "Noon"
                             "Noon"
                                       "Evening" "Evening" "Night"
                                                                         "Morning" "Noon"
                                                                                                "Noon"
#[151] "Morning"
                                                                                                           "Evening" "Evening"
timing_cat <- c("Dawn", "Morning", "Noon", "Afternoon", "Evening", "Night" )
factor_time <- factor(char_time, ordered = T, levels = timing_cat)</pre>
summary(factor_time)
                   Noon Afternoon Evening
#Dawn Morning
#6
                  39
                           4.3
                                     44
#Most of the incidents happen between noon and 8pm, so no, there are not more incidents happening at the end of the day
# cleaning up the NAs
summary(X919_data[is.na(X919_data$'Call initiated to: Police (911)')])
ambulance <- X919_data$`Call initiated to: Ambulance (911)`
overdosed <- X919_data$Overdose
amb df <- as.data.frame(ambulance)</pre>
amb_df[is.na(amb_df)] <- 0 # replacing na with 0</pre>
over_df <- as.data.frame(overdosed)</pre>
over_df[is.na(over_df)] <- 0</pre>
```

#Event Location: Common Housing Area Event Location: In Room

Length:161

Class :character

Mode :character

#Length:161

#Class :character

#Mode :character