Quiz13- MA478

Clark

Consider the Chicago burglary dataset available at:

```
library(tidyverse)
```

```
## -- Attaching core tidyverse packages ------------------------ tidyverse 2.0.0 --
## v dplyr     1.1.3     v readr     2.1.4
## v forcats   1.0.0     v stringr   1.5.0
## v ggplot2   3.4.3     v tibble    3.2.1
## v lubridate 1.9.3     v tidyr     1.3.0
## v purrr     1.0.2
## -- Conflicts ------------------------------------------ tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()    masks stats::lag()
## i Use the conflicted package (<http://conflicted.r-lib.org/>) to force all conflicts to become error
```

```
Chi_dat <- read.csv("https://raw.githubusercontent.com/nick3703/Chicago-Data/master/crime.csv")
```

Sum the data over all spatial locations so you have a single observation for each month. Fit an intercept only model to this dataset with an independent error structure, a compound symmetry error, and an AR(1) error structure. Write out the most appropriate model and provide parameter estimates.